

Institiúid Teicneolaíochta Cheatharlach



At the Heart of South Leinster

# LifeReceitas

## 4<sup>th</sup> Year Project Technical Manual

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# Introduction

The goal of this manual is to demonstrate my code for the gastronomy application LifeRecipes. The code for this application will be provided in a structured manner, displaying all of the components required to build this application. A screenshot of each file inside each component will be included in the Application section. Following that, screenshots of the database structure will be presented.

All the code can be found on my Git Hub:

<https://github.com/fillipeoi/LifeReceitas>

# Application Code

## Components

### Cookbook

#### Cookbook JS File

```
/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import React, {useEffect, useState}
from "react";
//MUI icons
import {Done, ExpandMore, MoreVert}
from "@mui/icons-material";
import ExpandMoreIcon
from "@mui/icons-material/ExpandMore";
//MUI materials
import {Box, CardActions, Collapse, Divider, IconButton, Menu,
MenuItem, Tooltip, Typography} from "@mui/material";
//Firebase
import {deleteDoc, doc, getDoc, updateDoc}
from "firebase/firestore";
import {database}
from "../../FirebaseConfig";
//React bootstrap
import {Col, Row}
from "react-bootstrap";
//Components
import Recipe
from "../Recipe/Recipe";
//Styles
import {BootstrapInput} from "../CookbookStyle";

const Cookbook = ({id, name, recipes, setCurrentCookbook,
currentCookbook}) => {

  const user = JSON.parse(sessionStorage.getItem('user'));

  const [expandedCookbook, setExpandedCookbook] = useState(false);
```

```

const [menu, setMenu] = useState(null);
const [update, setUpdate] = useState(false);
const [nameState, setNameState] = useState(name);
const [recipesState, setRecipesState] = useState(recipes);

//Menu settings
const settings = ["Modify", "Remove"];

//Display a cookbook
const handleExpandCookbook = () => {
  if(update) return;
  setCurrentCookbook(id);
  currentCookbook = id;
  setExpandedCookbook(!expandedCookbook);
}

//Open options menu
const handleOpenMenu = (event) => {
  setMenu(event.currentTarget);
  setCurrentCookbook(id);
};

//Close options menu
const handleCloseMenu = () => {
  setMenu(null);
};

//Remove a cookbook in the database
const handleRemoveCookbook = () => {
  //Remove the cookbook from the Firebase database
  deleteDoc(doc(database, "users/" + user?.uid + "/cookbooks/" +
id)
    .then(() => {
      window.location.reload();
    })
    .catch(() => {
      console.log("Error removing recipe");
    }
  ));
}

//Update the cookbook name in the database
const handleUpdateName = () => {
  // Update the cookbook name in Firebase database
  if(nameState === "") return;

```

```

    if(!nameState) return;
    const cookbook = {
      name: nameState,
      recipes: recipes,
      owner: user?.uid
    };
    updateDoc(doc(database, "users/" + user?.uid + "/cookbooks/" +
id), cookbook)
      .catch(() => {
        console.log("Error updating recipe");
      });

    setUpdate(false);
  }

  //Change to update mode
  const controlUpdateMenu = () => {
    setUpdate(true);
    handleCloseMenu();
  }

  //Change the state of the cookbook name
  const updateName = (event) => {
    setNameState(event.target.value);
  }

  //Refresh recipes of the cookbook from the firebase database
  const refreshRecipes = async () => {
    recipes.map(async (recipe) => {
      if (recipe.id) {
        const docRef = doc(database, "recipes", recipe.id);
        const docSnap = await getDoc(docRef);

        if (docSnap.exists()) {
          //if the recipe exists in the recipes array, update
the recipe

          const recipe = docSnap.data();
          recipe.id = docSnap.id;
          recipe.ingredients =
recipe.ingredients.map(ingredient => ingredient.text);
          setRecipesState(recipesState.map((r) => r.id ===
recipe.id ? recipe : r));
        } else {

```

```

        // doc.data() will be undefined in this case
        console.log("No such document!");
    }
}
});
}

useEffect(async () => {
    await refreshRecipes();
    if(currentCookbook === id) {
        setExpandedCookbook(true);
    } else {
        setExpandedCookbook(false);
    }
}, [currentCookbook, id]);

return (
    <Row>
        <Divider sx={{marginTop: "10px"}}/>
        <CardActions disableSpacing sx={{width:"100%",
cursor:"pointer"}}>
            <Row className={"justify-content-between
align-items-center w-100"} onClick={handleExpandCookbook}
sx={{cursor:"pointer"}}>
                <Col>
                    {update
                        // If the update mode is on, you can
modify the name of the cookbook.
                        ?
                            <Row className={"align-items-center"}>
                                <Col lg={10} md={10} xs={10}>
                                    <BootstrapInput multiline
className="input-100 recipe-input"
onChange={updateName} required={true} value={nameState}/>
                                </Col>
                                <Col lg={2} md={2} xs={2}>
                                    <IconButton
onClick={handleUpdateName} sx={{p: '10px', color:"#FA4616"}}
aria-label="search">
                                        <Done/>
                                    </IconButton>
                                </Col>
                            </Row>
                    </Col>
                </Row>

```



```

// Else display the name of the
cookbook
:
<Col lg={10} md={10} xs={10}>
  <Typography sx={{fontSize: "24px",
cursor: "pointer", width:"100%"}}>{nameState}</Typography>
</Col>
}
</Col>
{/*If the cookbook is not updating, display the
expand button*/}
{!update &&
  <Col lg={2} md={2} xs={2} sx={{cursor:
"pointer"}} >
    <ExpandMore
expand={expandedCookbook.toString()} onClick={handleExpandCookbook}
aria-expanded={expandedCookbook} aria-label="show more">
      <ExpandMoreIcon/>
    </ExpandMore>
  </Col>
}
</Row>
<Box sx={{ flexGrow: 0 }}>
  {/* Options button*/}
  <Tooltip title="Open settings">
    <IconButton aria-label="settings"
onClick={handleOpenMenu}>
      <MoreVert />
    </IconButton>
  </Tooltip>
  {/*Options menu*/}
  <Menu
    sx={{ mt: '45px' }}
    id="menu-appbar"
    anchorEl={menu}
    anchorOrigin={{
      vertical: 'top',
      horizontal: 'right',
    }}
    transformOrigin={{
      vertical: 'top',
      horizontal: 'right',
    }}
    open={Boolean(menu)}

```

```

        onClose={handleCloseMenu}
        onClick={handleCloseMenu}
      >
        /*List of options*/
        {settings.map((setting) => (
          <MenuItem key={setting}
onClick={setting === "Remove" ? handleRemoveCookbook : () =>
controlUpdateMenu()}>
            <Typography
textAlign="center">{setting}</Typography>
          </MenuItem>
        ))}
      </Menu>
    </Box>
  </CardActions>
  /**//If the cookbook is expanded, display the
content*/
  <Collapse in={expandedCookbook} timeout="auto"
unmountOnExit>
    <Row className={"justify-content-center"}>
      <Col>
        <div className="recipes">
          /*List of recipes in the cookbook*/
          {recipesState.map((recipe, index) => (
            <Recipe
              key={index}
              title={recipe.title}
              calories={recipe.calories}
              image={recipe.image}
              method={recipe.method}
              ingredients={recipe.ingredients}
              rating={recipe.rating}
              reviews={recipe.reviews}
              uid={recipe.uid}
              id={recipe.id}
              photoURL={recipe.photoURL}
              displayName={recipe.displayName}
              disableAddToCookbook={true}
              cookBookMode={true}
              cookbookId={id}
            />
          ))}
        </div>
      </Col>
    </Row>
  </Collapse>

```

```

        </Row>
      </Collapse>
    </Row>
  );
};

export default Cookbook;

```

## Cookbook Style File

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import {InputBase} from "@mui/material";
import {alpha, styled} from "@mui/material/styles";

export const BootstrapInput = styled(InputBase)(({ theme }) => ({
  'label + &': {
    marginTop: theme.spacing(3),
  },
  '& .MuiInputBase-input': {
    borderRadius: 4,
    multiline: "true",
    position: 'relative',
    backgroundColor: theme.palette.mode === 'light' ? '#fcfcfb' :
'#2b2b2b',
    border: '1px solid #ced4da',
    fontSize: 16,
    width: '100%',
    padding: '10px 10px 10px 10px',
    margin: '5px 0px 5px 0px',
    transition: theme.transitions.create([
      'border-color',
      'background-color',
      'box-shadow',
    ]),
    // Use the system font instead of the default Roboto font.
    fontFamily: [

```

```

    '-apple-system',
    'BlinkMacSystemFont',
    '"Segoe UI"',
    'Roboto',
    '"Helvetica Neue"',
    'Arial',
    'sans-serif',
    '"Apple Color Emoji"',
    '"Segoe UI Emoji"',
    '"Segoe UI Symbol"',
  ].join(', '),
  '&:focus': {
    //transparent for #FA4616
    boxShadow: ` ${alpha('#FA4616', 0.25)} 0 0 0 0.2rem`,
    borderColor: '#FA4616',
  },
},
}));

```

## Discover

### Discover JS File

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import {useCallback, useEffect, useState} from "react";
//MUI Icons
import SearchIcon from '@mui/icons-material/Search';
//MUI material
import {IconButton, InputBase, Paper} from "@mui/material";
//Firebase
import {database} from "../../FirebaseConfig";
import {collection, getDocs} from "firebase/firestore";
//Lodash
import {debounce} from "lodash";
//React bootstrap
import {Col, Container, Row} from "react-bootstrap";
import {useNavigate} from "react-router-dom";
//Components
import NavigationBar from "../../NavigationBar/NavigationBar";

```

```

import Recipe from "../Recipe/Recipe";
//CSS
import "./Discover.css";

//Discover Component
const Discover = () => {
  //Recipe API setup
  const APP_ID = "691a37a0";
  const API_KEY = "255600a0f7f4b613fe5e470a702545cb";

  const [recipes, setRecipes ] = useState ( [] );
  const [search, setSearch] = useState ("");
  const [stringNoMatch, setStringNoMatch] = useState ( null );
  const [error, setError] = useState ( false );
  const [cookbooks, setCookbooks] = useState ( [] );

  const user = JSON.parse ( sessionStorage.getItem ("user") );
  const navigate = useNavigate ();

  //Get user cookbooks from firebase database
  const getUserCookbooks = async () => {
    const querySnapshot = await getDocs ( collection ( database,
"users/" + user?.uid + "/cookbooks" ) );
    querySnapshot.forEach ( ( doc ) => {
      let newCookbook = doc.data ();
      newCookbook.id = doc.id;
      if ( !cookbooks.some ( cookbook => cookbook.id ===
newCookbook.id ) ) {
        setCookbooks ( cookbooks => [ ...cookbooks,
newCookbook ] );
      } else {
        const index = cookbooks.findIndex ( cookbook =>
cookbook.id === newCookbook.id );
        cookbooks [ index ] = newCookbook;
        setCookbooks ( cookbooks );
      }
    } );
  }

  //Depending on the search input, recipes are retrieved from the
API with 1 second delay
  //The debounce function is used to avoid the API request to be
made too often

```

```

const delayedQuery = useCallback(
  debounce((q) => sendQuery(q), 1000),
  []
);

//Send query to the API
const sendQuery = useCallback(
  async (search) => {
    if (error) return;
    var url;
    var oneRandomLetter = (Math.random() +
1).toString(36).substring(7)[0];
    //If the search input is empty, a random recipe is
retrieved
    if (search === "" || search === undefined) {
      url =
`https://api.edamam.com/search?q=${oneRandomLetter}&app_id=${APP_ID}&ap
p_key=${API_KEY}`;
    } else {
      //If the search input is not empty, recipes which
contain the search input are retrieved
      url =
`https://api.edamam.com/search?q=${search}&app_id=${APP_ID}&app_key=${A
PI_KEY}`;
    }
    //If there is no match with the search input, the app
doesn't fetch the API
    if (search?.includes(stringNoMatch)) {
      return;
    }

    fetch(url)
      .then(response => response.json())
      .then(data => {
        if (data.hits.length === 0) {
          setStringNoMatch(search);
          setRecipes([]);
        } else {
          let recipesData = data?.hits.map(recipe => {
            return {
              uri: recipe.recipe.uri,
              title: recipe.recipe.label,
              image: recipe.recipe.image,
              calories: recipe.recipe.calories,

```

```

                                ingredients:
recipe.recipe.ingredients.map((ingredient) => { return
ingredient.text}),
                                }
                                });
                                setRecipes(recipesData);
                                }
                                })
                                .catch(err => {
                                    console.log(err);
                                    setError(true);
                                });
                                },
                                []
                                );

useEffect(async() => {
    //If the user is not logged in, redirect to the login page
    //To handle the case where the user is not logged in and tries
to access the page
    if(!user){
        navigate("/");
    }
    await getUserCookbooks();
    delayedQuery(search);

}, [search, delayedQuery]);

//Update the search input
const updateSearch = e => {
    setSearch(e.target.value);
}

return(
    <>
        <Container className="mt-5">
            <Row>
                <NavigationBar/>
            </Row>
        </Container>

        <Container className="mt-4">
            <Row className={"justify-content-center"}>
                <Col className="mt-4" lg={6} mf={6} sm={6}>

```

```

        { /*recipe search form*/
        <Paper className="mb-4" sx={{ p: '0px 4px',
display: 'flex', alignItems: 'center', maxWidth: '100%' }} >

            <InputBase sx={{ ml: 1, flex: 1 }}
placeholder="Search recipe or ingredient" value={search ?? ""}
onChange={updateSearch} />

            <IconButton type="submit" sx={{ p: '10px'
}} aria-label="search">
                <SearchIcon className="searchIcon"/>
            </IconButton>
        </Paper>
    </Col>
</Row>
</Container>
<Row className={"justify-content-center"}>
    <Col lg={5} md={7} sm={7}>
        { /*List of recipes*/
        {recipes.map((recipe, index) =>(
            <Container className="mt-2" key={index}>
                <Row>
                    <Col>
                        <Recipe
                            key={recipe.uri}
                            title={recipe.title}
                            calories={recipe.calories}
                            image={recipe.image}
                            ingredients={recipe.ingredients}
                            userCookbooks={cookbooks}
                        />
                    </Col>
                </Row>
            </Container>
        ))}
    </Col>
</Row>
</>
);
};

export default Discover;

```



## Discover CSS File

```
/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

.navBg{
  background: #FA4616;
  width: 100%;
}
.menuOptions{
  color: white;
}
.logoutBtn{

  color: white;
}
.searchIcon{
  color: #FA4616;
}
.homeSearchBtn:hover{
  padding: auto;
  font-size: 15px;
  background-color: #FA4616;
  border: 2px solid #FA4616;
  border-radius: 4px;
  margin-bottom: 20px;
  color: #ffffff;
}

.recipeImg{
  height: 300px;
  width: 300px;
  border-radius: 6px;
  object-fit: cover;
}

.filterSelect{
  padding: auto;
  font-size: 15px;
  background-color: #ffffff;
}
```

```

border: 1px solid #FA4616;
border-radius: 4px;
margin-bottom: 8px;
color: #FA4616;
}
.filterSelect:toggle{
padding: auto;
font-size: 15px;
background-color: #FA4616;
border: 2px solid #FA4616;
border-radius: 4px;
margin-bottom: 3px;
color: #ffffff;
}

```

## Forgot Password

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import React, { useState } from "react";
import { Container, Col, Row, Button, Form, Image, Alert } from
"react-bootstrap";
import { Link, useNavigate } from "react-router-dom";
import '../Login/Login.css';
import "bootstrap/dist/css/bootstrap.css";
import "../Custom.scss";
import { useUserAuth } from "../../context/UserAuthContext";

const ForgotPass = () => {
  const [email, setEmail] = useState("");
  const [error, setError] = useState("");
  const [message, setMessage] = useState("");

  const { passwordReset } = useUserAuth();
  const navigate = useNavigate();

  //error handling

```

```

const handleSubmit = async (e) => {
  e.preventDefault();
  setError("");
  setMessage("");

  try{
    await passwordReset(email);
    setMessage("Check your email for further instructions");
    navigate("/");

  }catch(err){
    setError("Failed to reset password");
  }
};

return (
  <>
    <Container className="mt-5">
      <Row>
        <Col lg={12} md={12} sm={12}>
          </img>
        </Col>
      </Row>
      <Row>
        <Col lg={3} mf={3} sm={0}></Col>
        <Col lg={6} mf={6} sm={12}>

          {error && <Alert variant="danger">{ error
}</Alert>}

          <Form onSubmit={handleSubmit}>
            <Form.Group className="mb-3"
controlId="formBasicEmail">
              <Form.Label>Email address</Form.Label>
              <Form.Control type="email"
placeholder="Enter email" onChange={(e) => setEmail(e.target.value)} />
              <Form.Text className="text-muted">
We'll never share your email with anyone else.</Form.Text>
            </Form.Group>

            <div className="d-grid">

```

```

                <Button className="text-light"
variant="primary" type="submit">Reset Password</Button>
            </div>
        </Form>

        <div className="mt-2">
            <small >Already have an account? <Link
to="/" className="forgotPass">Login</Link></small>
        </div>

        <div className="mt-1">
            <small >Need an account? <Link
to="/signup" className="forgotPass">Sign up</Link></small>
        </div>
    </Col>

</Row>

</Container>
</>
)
}
export default ForgotPass;

```

## Login

### Login JS File

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import React, {useEffect, useState} from "react";
//React Bootstrap
import { Container, Col, Row, Button, Form, Alert } from
"react-bootstrap";
import "bootstrap/dist/css/bootstrap.css";
//React Router Dom
import { Link, useNavigate } from
"react-router-dom";
//User auth
import { useUserAuth } from
"../../context/UserAuthContext";

```

```

//Google
import GoogleButton from
"react-google-button";

import "./Login.css";
import "../Custom.scss";

const Login = () => {
  const [email, setEmail] = useState("");
  const [password, setPassword] = useState("");
  const [error, setError] = useState("");
  const [rememberMe, setRememberMe] =
useState(sessionStorage.getItem("rememberMe"));

  const { logIn, googleSignIn, user } = useUserAuth();
  const navigate = useNavigate();

  //Handle remember me checkbox
  const handleRememberMe = (e) => {
    setRememberMe(e.target.checked);
    sessionStorage.setItem("rememberMe", e.target.checked);
  }

  //error handling
  const handleSubmit = async (e) => {
    e.preventDefault();
    setError("");

    try{
      const user = await logIn(email, password)
      if(user && user.emailVerified){
        navigate("/recipes");
      }
    }catch(error){
      //Handle error code message
      switch(error.code){
        case "auth/user-not-found":
          setError("User not found");
          break;
        case "auth/wrong-password":
          setError("Wrong password");
          break;
        case "auth/invalid-email":
          setError("Invalid email");

```

```

        break;
        case "auth/internal-erroror":
            setError("Wrong password");
            break;
        case "auth/too-many-requests":
            setError("Access to this account has been
temporarily disabled due to many failed login attempts. You can
immediately restore it by resetting your password or you can try again
later.");
            break;
        default:
            setError(error.message);
            break;
    }
}
};

const handleGoogleSignIn = async (e) => {
    e.preventDefault();
    try{
        await googleSignIn();
        navigate("/recipes");
    } catch(error){
        //Handle error message with Google sign in
        switch(error.code) {
            case "auth/popup-closed-by-user":
                setError("Google sign in was cancelled");
                break;
            default:
                setError(error.message);
                break;
        }
    }
};

const handleUserChange = () => {
    //If user is logged in and verified, redirect to recipes page
    if(user && user.emailVerified){
        navigate("/recipes");
    }
};

useEffect(() => {

```

```

        handleUserChange ();
    }, [user]);

    return (
        <>
            <Container className="mt-5">
                <Row>
                    <Col lg={12} md={12} sm={12}>
                        </img>
                    </Col>
                </Row>
                <Row>
                    <Col lg={3} mf={3} sm={0}></Col>
                    <Col lg={6} mf={6} sm={12}>

                        {error && <Alert variant="danger">{ error
}</Alert>}

                        <Form onSubmit={handleSubmit}>
                            <Form.Group className="mb-3"
controlId="formBasicEmail">
                                <Form.Label>Email
address</Form.Label>
                                <Form.Control type="email"
placeholder="Enter email" onChange={(e) => setEmail(e.target.value)} />
                                <Form.Text className="text-muted">
We'll never share your email with anyone else.</Form.Text>
                            </Form.Group>

                            <Form.Group className="mb-3"
controlId="formBasicPassword">
                                <Form.Label>Password</Form.Label>
                                <Form.Control type="password"
placeholder="Password" onChange= {(e) => setPassword(e.target.value)}
/>
                            </Form.Group>

                            <Form.Group className="mb-4"
controlId="formBasicCheckbox">
                                <Form.Check type="checkbox"
label="Remember me" checked={Boolean(rememberMe)} onChange={(e) =>
handleRememberMe (e) }/>
                            </Form.Group>

```

```

                <div className="d-grid , mb-2" >
                    <Button className="text-light"
variant="primary" type="submit">Login</Button>
                </div>

                <div className="mb-3">
                    <Link to="/forgotpass"
className="forgotPass"><small >Forgot Password?</small></Link>
                </div>

                <div className="mb-2">
                    <GoogleButton className="g-btn
w-100" type="dark" onClick={handleGoogleSignIn}/>
                </div>

                <div className="mt-2">
                    <small >Need an account? <Link
to="/signup" className="forgotPass">Sign up</Link></small>
                </div>
            </Form>
        </Col>
    </Row>
</Container>
</>
)
}

export default Login;

```

## Login CSS File

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */
.btn-primary {
    background-color: #FA4616;
}

.forgotPass{
    color: black;
    text-decoration: none;
}

```



## Messages

### Messages JS File

```
/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import {ArrowBackIosNew}           from "@mui/icons-material";
import {ListItemAvatar}            from "@mui/material";
import React, {useEffect, useRef, useState} from 'react';
//MUI material
import SendIcon                   from '@mui/icons-material/Send';
import Avatar                     from '@mui/material/Avatar';
import Container                  from "@mui/material/Container";
import ListItemButton             from
"@mui/material/ListItemButton";
import Divider                    from '@mui/material/Divider';
import Fab                        from '@mui/material/Fab';
import Grid                       from '@mui/material/Grid';
import List                       from '@mui/material/List';
import ListItem                   from '@mui/material/ListItem';
import ListItemIcon               from '@mui/material/ListItemIcon';
import ListItemText               from '@mui/material/ListItemText';
import Paper                      from '@mui/material/Paper';
import TextField                  from '@mui/material/TextField';
import Typography                 from '@mui/material/Typography';
import Badge                      from '@mui/material/Badge';
//Firebase
import {
  addDoc,
  increment,
  collection,
  doc,
  getDoc,
  getDocs,
  orderBy,
  Timestamp,
  query,
  onSnapshot,
  where,
  updateDoc,

```

```

    limit
  } from "firebase/firestore";
import {database}
from "../../FirebaseConfig";
//Bootstrap
import {Col, Row} from
"react-bootstrap";
//React router
import {useNavigate} from
"react-router-dom";
//Components
import NavigationBar from
"./NavigationBar/NavigationBar";

import "./Messages.css";

const Messages = () => {

  const user = JSON.parse(sessionStorage.getItem("user"));
  const navigate = useNavigate();

  const [users, setUsers] = useState([]);
  const [search, setSearch] = useState(null);
  const [formValue, setFormValue] = useState('');
  const [interlocutorUID, setInterlocutorUID] = useState('');
  const [messages, setMessages] = useState([]);
  const [currentRoomId, setCurrentRoomId] = useState('');
  const [displayUserList, setDisplayUserList] = useState(true);
  const [interlocutorName, setInterlocutorName] = useState('');

  const roomsRef = collection(database, "rooms");

  //Basic use effect
  useEffect(async () => {
    //If the user is not logged in, redirect to the login page
    //To handle the case where the user is not logged in and tries
to access the page
    if(!user){
      navigate("/");
    }
    //If a room is open by "send message" button
    if (sessionStorage.getItem("interlocutorUID")) {
setInterlocutorUID(sessionStorage.getItem("interlocutorUID"));

```

```

setInterlocutorName(sessionStorage.getItem("interlocutorName"));
    setDisplayUserList(false);
    await
createRoom(sessionStorage.getItem("interlocutorUID"));
    }
    await getUsers();
}, []);

//Update unread messages
useEffect(async () => {
    if (user) {
        const userRef = doc(database, "users/" + user.uid);
        await updateDoc(userRef, {
            unreadMessages: false
        });
    }
}, [user]);

//Search for a user use effect
useEffect(async () => {
    if (search && search !== "") {
        await searchFromAllUsers();
    } else {
        setUsers([]);
        await getUsers();
    }
}, [search]);

//Get messages depending on the room use effect
useEffect(async () => {
    if (!user) return;
    if (currentRoomId) {
        const roomRef = doc(database, "rooms/" + currentRoomId);
        await updateDoc(roomRef, {
            [user.uid]: 0
        });
        setMessages([]);
        const q = query(collection(database, "rooms/" +
currentRoomId + "/messages"), orderBy("createdAt", "desc"));
        const unsubscribe = onSnapshot(q, (querySnapshot) => {
            querySnapshot.forEach(async () => {
                const updatedMessages =
querySnapshot.docs.map((doc) => doc.data());

```

```

        setMessages(updatedMessages);
    });
});
return unsubscribe;
}
}, [currentRoomId]);

//Get the users from the database only if the user has started a
conversation
const getUsers = async () => {
    //Get users existing in rooms current user
    const roomsRef = collection(database, "rooms");
    let usersTemp = [];
    getDocs(roomsRef, where("members." + user.uid, "=",
true)).then((querySnapshot) => {
        querySnapshot.forEach( async (oneDoc) => {
            //Get one of the two members of the room
            let newUserUid = "";
            if (Object.keys(oneDoc.data().members)[0] !== user.uid)
{
                newUserUid = Object.keys(oneDoc.data().members)[0];
            } else {
                newUserUid = Object.keys(oneDoc.data().members)[1];
            }
            //Check if messages collection of the room is not empty
            const room = oneDoc.data();
            const queryRoom = query(roomsRef,
where(`members.${user.uid}`, "=", true),
where(`members.${newUserUid}`, "=", true));
            const querySnapshotRoom = await getDocs(queryRoom);
            if (!querySnapshotRoom.empty) {
                //Get room id
                const roomId = querySnapshotRoom.docs[0].id;
                const q = query(collection(database, "rooms/" +
roomId + "/messages"), orderBy("createdAt", "asc"));
                const querySnapshotMessages = await getDocs(q);
                if (!querySnapshotMessages.empty) {
                    const docRef = doc(database, "users",
newUserUid);
                    const docSnap = await getDoc(docRef);

                    if (docSnap.exists() && docSnap.data().uid !==
user.uid) {

```

```

//Add user in the list if he is not already
in the list

const userAlreadyInList =
usersTemp.find((oneUser) => oneUser.uid === newUserUid);
if (!userAlreadyInList) {
  const newUser = docSnap.data();
  newUser.uid = newUserUid;
  newUser.roomId = roomId;
  newUser.unreadMessages =
room[user.uid];

  usersTemp.push(newUser);
  setUsers(usersTemp);
}
}
}
});
});
};

//Search from all users in database
const searchFromAllUsers = async () => {
  const querySnapshot = await getDocs(collection(database,
"users"));
  querySnapshot.forEach((doc) => {
    let newUser = doc.data();
    let userData = {};
    userData.uid = newUser.uid;
    userData.displayName = newUser.displayName;
    userData.email = newUser.email;
    userData.photoURL = newUser.photoURL;

    if
((newUser?.displayName?.toLowerCase().includes(search.toLowerCase()) ||
newUser.email?.toLowerCase().includes(search?.toLowerCase())) &&
userData.uid !== user.uid) {
      if (!users.find(oneUser => oneUser.uid ===
userData.uid)) {
        const newUsers = users;
        newUsers.push(userData);
        setUsers(newUsers);
      }
    }
  }
}
}

```

```

        if (search !== "") {
            filterUsers();
        }

    });
};

//Filter users by display name and email
const filterUsers = () => {
    if(search){
        if (users.length > 0) {
            const filteredUsers = users?.filter(oneUser =>
oneUser.displayName?.toLowerCase().includes(search.toLowerCase()) ||
oneUser.email?.toLowerCase().includes(search.toLowerCase()));
            setUsers(filteredUsers);
        }
    }
};

//Change the interlocutor
const changeInterlocutor = async (uid) => {
    if (sessionStorage.getItem("interlocutorUID") === uid &&
!displayUserList) return;
    setCurrentRoomId(null);
    setInterlocutorUID(uid);
    //Set unread messages number to 0 for the current interlocutor
in the users array
    users.map((oneUser) => {
        if (oneUser.uid === uid) {
            oneUser.unreadMessages = 0;
        }
        return oneUser;
    });
    sessionStorage.setItem("interlocutorUID", uid);
    setInterlocutorName(users.find(oneUser => oneUser.uid ===
uid).displayName);
    setDisplayUserList(false);
    setMessages([]);
    await createRoom(uid);
};

//Convert the date to a string
const timestampToString = (timestamp) => {

```

```

    const a = new Date(timestamp * 1000);
    let month = a.getMonth();
    month++;
    month = month < 10 ? '0' + month: month;
    const date = a.getDate();
    const hour = a.getHours();
    const min = a.getMinutes() < 10 ? '0' + a.getMinutes() :
a.getMinutes();
    const time = date + '/' + month + ' ' + hour + ':' + min;
    return time;
};

//Send the message
const sendMessage = async (e) => {
    e.preventDefault();
    const message = formValue;
    if (message && message.trim() !== "") {
        const newMessage = {
            message: message,
            sender: user.uid,
            displayName: user.displayName,
            createdAt: Timestamp.fromDate(new Date()),
        };
        if (user.photoURL) {
            newMessage.photoURL = user.photoURL;
        }
        setFormValue("");
        addDoc(collection(database, "rooms/" + currentRoomId +
"/messages"), newMessage)
            .then(async () => {
                //We increment the number of unread messages by 1
                const roomRef = doc(database, "rooms/" +
currentRoomId);
                await updateDoc(roomRef, {
                    [interlocutorUID]: increment(1)
                });
                const interlocutorRef = doc(database, "users/" +
interlocutorUID);
                await updateDoc(interlocutorRef, {
                    unreadMessages: true
                });
            }).catch(function (error) {
                console.error("Error writing document: ", error);
            });
    });
};

```

```

    }
  };

  //Create a room with interlocutor if it doesn't exist
  const createRoom = async (interlocutorUID) => {
    const uidString = user.uid;
    const q = query(roomsRef, where(`members.${uidString}`, "==",
true), where(`members.${interlocutorUID}`, "==", true));
    const querySnapshot = await getDocs(q);

    const room = {
      members: {
        [uidString]: true,
        [interlocutorUID]: true
      }
    };

    if (querySnapshot.empty) {
      addDoc(roomsRef, room).then((roomRef) => {
        setCurrentRoomId(roomRef.id);
      }).catch(function (error) {
        console.error("Error writing document: ", error);
      });
    } else {
      setCurrentRoomId(querySnapshot.docs[0].id);
    }
  };

  //Change search value
  const handleChangeSearch = (e) => {
    setSearch(e.target.value);
  };

  //Handle click on arrow back
  const handleClickArrowBack = () => {
    setDisplayUserList(true)
  };

  return (
    <div>
      <Container className="mt-5">
        <Row>
          <NavigationBar/>
        </Row>
      </Container>
    </div>
  );
}

```



```

        </Container>
        <Grid container item lg={12} xs={12} md={12}
sx={{margin:"50px 0 0 0"}}>
            <Grid>
                <Typography variant="h5"
className="header-message">Chat</Typography>
            </Grid>
        </Grid>
        <Grid container component={Paper} className={"chatSection"}
sx={{ boxShadow: "1px -1px rgb(0, 0, 0, 0.2)" }}>
            <Grid item lg={3} md={3} xs={12}
className={displayUserList ? "borderRight500" : "d-none d-md-block
borderRight500"}>
                <List>
                    <ListItem key="user" >
                        <Row className={"justify-content-center
flex-wrap align-items-center"}>
                            <Col lg={3} xs={3}>
                                <ListItemIcon>
                                    <Avatar alt="avatar"
src={user?.photoURL} />
                                </ListItemIcon>
                            </Col>
                            <Col lg={9} xs={9}>
                                <ListItemText
primary={user?.displayName }></ListItemText>
                            </Col>
                        </Row>
                    </ListItem>
                </List>
                <Divider />
                <Grid item xs={12} style={{padding: '10px'}}
className={displayUserList ? "" : "d-none d-md-block"}>
                    <TextField id="outlined-basic-email"
label="Search" value={search ?? ""} onChange={handleChangeSearch}
variant="outlined" fullWidth />
                </Grid>
                <Divider />
                <List className={displayUserList ? "d-block" :
"d-none d-md-block"}>
                    </*List of users*/>
                    {users?.map((oneUser, index) => (
                        <div key={index}>
                            {oneUser?.uid !== user?.uid &&

```

```

                                <ListItemButton onClick={() =>
changeInterlocutor(oneUser?.uid) }

selected={oneUser?.uid === interlocutorUID}>
                                <Row
className={"justify-content-center flex-wrap align-items-center"}>
                                    <Col lg={3} xs={3}>
                                        <ListItemIcon>
                                            <Avatar
alt="avatar" src={oneUser?.photoURL}/>
                                        </ListItemIcon>
                                    </Col>
                                    <Col lg={9} xs={9}>
                                        <ListItemText
primary={oneUser?.displayName ? oneUser?.displayName :
oneUser?.email}/>
                                    </Col>
                                </Row>
                                <Col>
                                    {oneUser?.unreadMessages >
0 &&
                                    <Badge
color="secondary" badgeContent={oneUser?.unreadMessages.toString()} />
                                    }
                                </Col>
                                </ListItemButton>
                            }
                        </div>
                    )))
                </List>
            </Grid>
            <Grid item xs={12} lg={9} md={9}
className={displayUserList ? "d-none d-md-block": ""} sx={{position:
"relative", width: "100%"}}>
                { /*If no interlocutor is selected, then show this
message*/ }
                { !interlocutorUID &&
                    <Row className={"d-flex justify-content-center
align-items-center h-100"}>
                        <Col>
                            <Typography textAlign={"center"}
sx={{fontSize: 36}}>Select or search a user to start a
conversation</Typography>
                        </Col>

```

```

        </Row>
      }
      <Grid item xs={12} style={{padding: '10px',
position: "absolute", top: 0, width:"100%"}}>
        <Row className={"w-100"}>
          <Col xs={3} className={displayUserList ?
"d-none" : "d-block d-md-none"}>
            <ArrowBackIosNew sx={{cursor:
"pointer"}} onClick={handleClickArrowBack}/>
          </Col>
          <Col xs={9}>
            <Typography
variant={"h6"}>{interlocutorName}</Typography>
          </Col>
        </Row>
        <Divider/>
      </Grid>

      <List sx={{ width: '100%', height:"80%",
paddingBottom: "96px",position: "absolute", top: 50, overflow:"scroll",
overflowX: "hidden", display:"flex", flexDirection:"column-reverse"}}
className={"messageArea"}>
        {messages?.map((message, index) => (
          <ListItem alignItems="flex-start"
key={index} sx={{display: "block"}}>
            <ListItemAvatar>
              <Avatar alt="Avatar"
src={message?.photoURL} />
            </ListItemAvatar>
            <ListItemText
              primary={
                <p className="p-0
m-0">{message?.displayName} <span className="text-secondary
fontSmall">{timestampToString(message?.createdAt)}</span></p>
              }
              secondary={
                <React.Fragment>
                  <Typography
sx={{display: 'inline',
overflowWrap: "break-word"}}
                    component="span"
                    variant="body2"
                    color="text.primary"
                  >

```

```

                {message?.message}
            </Typography>
        </React.Fragment>
    }
    />
</ListItem>
    ))}
</List>

    <Grid container style={{padding: '20px'}}
sx={{position: "absolute", bottom: 0, backgroundColor: "white"}}>
        <Grid item xs={11}>
            {/*Input to type a message*/}
            <TextField
                id="outlined-basic-message"
                label="Type a message..."
                fullWidth
                multiline
                value={formValue}
                onChange={(e) =>
setFormValue(e.target.value)}
                onKeyDown={(e) => e.key === "Enter" ?
sendMessage(e) : null}
            />
        </Grid>
        <Grid item xs={1} align="right">
            <Fab color="primary" sx={{backgroundColor:
"#FA4616"}} aria-label="add" onClick={sendMessage}><SendIcon /></Fab>
        </Grid>
    </Grid>
</Grid>
</div>
)
}

export default Messages;

```

## Messages CSS File

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

```

```

.table {
  min-width: 650px;
}
.chatSection {
  width: 100%;
  height: 80vh;
  border-bottom: 0;
}
.headBG {
  background-color: #e0e0e0;
}
.borderRight500 {
  border-right: 1px solid #e0e0e0;
}
.messageArea {
  height: 70vh;
}

.fontSmall {
  font-size: 0.8em;
}

```

## My Cookbooks

### My Cookbooks JS File

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import {Add} from "@mui/icons-material";
import {addDoc, collection, doc, getDocs} from "firebase/firestore";
import {useNavigate} from "react-router-dom";
import NavigationBar from
"../NavigationBar/NavigationBar";
import React, {useEffect, useState} from "react";
import {Col, Container, Row} from "react-bootstrap";
import Cookbook from "../CookBook/Cookbook";
import {database} from "../../FirebaseConfig";

```

```

import {BootstrapButton, BootstrapInput} from "./MyCookbooksStyle";

const MyCookbooks = () => {
  const user = JSON.parse(sessionStorage.getItem('user'));
  const navigate = useNavigate();

  const [cookbooks, setCookbooks] = useState([]);
  const [cookbook, setCookbook] = useState("");
  const [buttonDisabled, setButtonDisabled] = useState(true);
  const [currentIndexCookbook, setCurrentIndexCookbook] =
useState(null);

  useEffect( async () => {
    //If the user is not logged in, redirect to the login page
    //To handle the case where the user is not logged in and tries
to access the page
    if(!user){
      navigate("/");
    }
    await getUserCookbooks();
  }, []);

  //add Cookbook to firebase database
  const addCookbook = async () => {
    //if this cookbook name is already in cookbooks, don't add it
    if (cookbooks.includes(cookbook)) return;
    if (cookbook === "") return;
    const newCookbook = {
      name: cookbook,
      owner: user.uid,
      recipes: []
    };

    addDoc(collection(database, "users/" + user.uid +
"/cookbooks"), newCookbook)
      .then(() => {
        getUserCookbooks();
        window.location.reload();
      }).then(() => {
        setCookbook("");
      }).catch(function (error) {
        console.error("Error writing document: ", error);
      });
  }
}

```

```

//Get user cookbooks from firebase database
const getUserCookbooks = async () => {
  const querySnapshot = await getDocs(collection(database,
"users/" + user?.uid + "/cookbooks"));
  querySnapshot.forEach((doc) => {
    let newCookbook = doc.data();
    newCookbook.id = doc.id;

    if(!cookbooks.some(cookbook => cookbook.id ===
newCookbook.id)){
      setCookbooks(cookbooks => [...cookbooks, newCookbook]);
    } else {
      const index = cookbooks.findIndex(cookbook =>
cookbook.id === newCookbook.id);
      cookbooks[index] = newCookbook;
      setCookbooks(cookbooks);
    }
  });
}

//Change cookbook name
const updateCookbook = (event) => {
  if(event.target.value === ""){
    setButtonDisabled(true);
  } else {
    setButtonDisabled(false);
  }
  setCookbook(event.target.value);
}

//Change current cookbook
const handleChangeCurrentIndexCookbook = (index) => {
  setCurrentIndexCookbook(index);
  //close all others cookbooks
  cookbooks.forEach((cookbook, i) => {
    if(i !== index){
      cookbook.open = false;
    }
  });
}

return (
  <>

```

```

    <Container className="mt-5">
      <Row>
        <NavigationBar/>
      </Row>
    </Container>
    <Container className="mt-4">
      <Row className={"justify-content-center"}>
        <Col lg={5} mf={7} sm={7}>
          <BootstrapInput multiline className="input-100
recipe-input" placeholder="Cookbook name" onChange={updateCookbook}
required={true} value={cookbook}/>
          <BootstrapButton
            variant="contained"
            disableElevation
            disabled={buttonDisabled}
            sx={{width: '100%', display: 'flex',
justifyContent: 'center', alignItems: 'center'}}
            onClick={addCookbook}
            endIcon={<Add />}
          >
            Add a new Cookbook
          </BootstrapButton>
          { /*List of cookbooks*/ }
          {
            cookbooks.length > 0 &&
cookbooks.map(cookbook => (
              <Cookbook
                key={cookbook.id}
                name={cookbook.name}
                recipes={cookbook.recipes}
                id={cookbook.id}
                setCurrentCookbook={() =>
handleChangeCurrentIndexCookbook(cookbook.id)}
currentCookbook={currentIndexCookbook}
              />
            ))
          }
        </Col>
      </Row>
    </Container>
  </>
);
};

```



```
export default MyCookbooks;
```

## My Cookbooks Style File

```
/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import {Button, InputBase} from "@mui/material";
import {alpha, styled} from "@mui/material/styles";

export const BootstrapButton = styled(Button)({
  boxShadow: 'none',
  textTransform: 'none',
  fontSize: 16,
  padding: '6px 12px',
  border: '1px solid',
  lineHeight: 1.5,
  backgroundColor: '#FA4616',
  borderColor: `${alpha('#FA4616', 0.25)} 0 0 0 0.2rem`,
  justifyContent: 'space-around',
  fontFamily: [
    '-apple-system',
    'BlinkMacSystemFont',
    '"Segoe UI"',
    'Roboto',
    '"Helvetica Neue"',
    'Arial',
    'sans-serif',
    '"Apple Color Emoji"',
    '"Segoe UI Emoji"',
    '"Segoe UI Symbol"',
  ].join(','),
  '&:hover': {
    backgroundColor: '#FA4616',
    borderColor: `${alpha('#FA4616', 0.25)} 0 0 0 0.2rem`,
    boxShadow: 'none',
  },
  '&:active': {
    boxShadow: 'none',
  },
});
```

```

        backgroundColor: '#FA4616',
        borderColor: `${alpha('#FA4616', 0.25)} 0 0 0 0.2rem`,
    },
    '&:focus': {
        boxShadow: `${alpha('#FA4616', 0.25)} 0 0 0 0.2rem`,
    },
});
export const BootstrapInput = styled(InputBase)(({ theme }) => ({
    'label + &': {
        marginTop: theme.spacing(3),
    },
    '& .MuiInputBase-input': {
        borderRadius: 4,
        position: 'relative',
        backgroundColor: theme.palette.mode === 'light' ? '#fcfcfb' :
'#2b2b2b',
        border: '1px solid #ced4da',
        fontSize: 16,
        width: '100%',
        padding: '10px 10px 10px 10px',
        margin: '5px 0px 5px 0px',
        transition: theme.transitions.create([
            'border-color',
            'background-color',
            'box-shadow',
        ]),
        // Use the system font instead of the default Roboto font.
        fontFamily: [
            '-apple-system',
            'BlinkMacSystemFont',
            '"Segoe UI"',
            'Roboto',
            '"Helvetica Neue"',
            'Arial',
            'sans-serif',
            '"Apple Color Emoji"',
            '"Segoe UI Emoji"',
            '"Segoe UI Symbol"',
        ].join(', '),
        '&:focus': {
            //transparent for #FA4616
            boxShadow: `${alpha('#FA4616', 0.25)} 0 0 0 0.2rem`,
            borderColor: '#FA4616',
        },
    },

```

```
    },  
  ));  
});
```

## My Recipes

### My Recipes JS File

```
/**  
 * @author Fillipe Soares  
 * @StartDate 18/01/2022  
 */  
  
//MUI Icons  
import SearchIcon  
from '@mui/icons-material/Search';  
//MUI material  
import {Alert, AppBar, IconButton, InputBase, Paper, Snackbar}  
from '@mui/material';  
//React bootstrap  
import {Col, Container, Row}  
from 'react-bootstrap';  
//Components  
import NavigationBar from  
"../NavigationBar/NavigationBar";  
import Recipe from "../Recipe/Recipe";  
import MyRecipesLogic from  
"./MyRecipesLogic";  
  
//MyRecipes Component  
const MyRecipes = () => {  
  //Import of variables and functions  
  const {  
    search,  
    recipes,  
    updateSearch,  
    updateRecipe,  
    removeRecipe,  
    handleCloseSuccessSnackbar,  
    handleCloseModifySnackbar,  
    handleCloseRemoveSnackbar,  
    openSuccessSnackbar,  
    openModifySnackbar,  
    openRemoveSnackbar,  
  }
```

```

    } = MyRecipesLogic();

    return(
      <>
        <Container className="mt-5">
          <Row>
            <NavigationBar/>
          </Row>
        </Container>

        <Container className="mt-4">
          <Row className={"justify-content-center"}>
            <Col lg={5} mf={7} sm={7}>
              { /*recipe search form*/ }
              <Paper className="mb-4" sx={{ p: '0px 4px',
display: 'flex', alignItems: 'center', maxWidth: '100%' }} >

                <InputBase sx={{ ml: 1, flex: 1 }}
placeholder="Search recipe or ingredient" value={search ?? ""}
onChange={updateSearch} />

                <IconButton sx={{ p: '10px' }}
aria-label="search">
                  <SearchIcon className="searchIcon"/>
                </IconButton>
              </Paper>
              { /*List of recipes*/ }
              { recipes.map((recipe, index) =>(
                <Container className="mt-2" key={index}>
                  <Row>
                    <Col>
                      <Recipe
                        key={index}
                        title={recipe.title}
                        calories={recipe.calories}
                        image={recipe.image}
                        method={recipe.method}
                        ingredients={recipe.ingredients.map(ingredient => ingredient.text)}
                        uid={recipe.uid}

```

```

photoURL={recipe.photoURL}

reviews={recipe.reviews}

displayName={recipe.displayName}

disableReview={true}

updateRecipe={updateRecipe}

removeRecipe={ (e)
=> removeRecipe(e, recipe.id)}

id={recipe.id}
/>
</Col>
</Row>
</Container>
)}}
</Col>
</Row>
</Container>

{/*Snackbars*/}
<Snackbar open={openSuccessSnackbar}
autoHideDuration={6000} onClose={handleCloseSuccessSnackbar}>
  <Alert onClose={handleCloseSuccessSnackbar}
severity="success" sx={{ width: '100%' }}>
    Recipe successfully added !
  </Alert>
</Snackbar>
<Snackbar open={openModifySnackbar} autoHideDuration={6000}
onClose={handleCloseModifySnackbar}>
  <Alert onClose={handleCloseModifySnackbar}
severity="success" sx={{ width: '100%' }}>
    Recipe successfully modified !
  </Alert>
</Snackbar>
<Snackbar open={openRemoveSnackbar} autoHideDuration={6000}
onClose={handleCloseRemoveSnackbar}>
  <Alert onClose={handleCloseRemoveSnackbar}
severity="success" sx={{ width: '100%' }}>
    Recipe successfully removed !
  </Alert>
</Snackbar>

```

```

        </>
    );
};

export default MyRecipes;

```

## My Recipes Logic Js File

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import {useEffect, useState}
from "react";
//React Router
import {useNavigate}
from "react-router-dom";
//Firebase
import {collection, deleteDoc, doc, getDoc, getDocs, query, updateDoc,
where} from "firebase/firestore";
import {database}
from "../../FirebaseConfig";

const MyRecipesLogic = () => {

    const user = JSON.parse(sessionStorage.getItem('user'));
    const navigate = useNavigate();

    const [recipes, setRecipes ] = useState ([]);
    const [search, setSearch] = useState (null);
    const [openSuccessSnackbar, setOpenSuccessSnackbar] =
useState(false);
    const [openModifySnackbar, setOpenModifySnackbar] =
useState(false);
    const [openRemoveSnackbar, setOpenRemoveSnackbar] =
useState(false);

    //Fetching recipes from Firebase database
    const getUserRecipes = async () => {

```

```

    const q = query(collection(database, "recipes"), where("uid",
"==", user?.uid));
    const querySnapshot = await getDocs(q);

    querySnapshot.forEach((doc) => {
      let newRecipe = doc.data();
      //if the id of a recipe is not already in the array, add
the recipe
      newRecipe.id = doc.id;
      //Update user photo of the recipe
      newRecipe.userPhoto = user?.photoURL;
      if(!recipes.some(recipe => recipe.id === newRecipe.id)){
        setRecipes(recipes => [...recipes, newRecipe]);
      } else {
        //if the id of a recipe is already in the array, update
the recipe
        const index = recipes.findIndex(recipe => recipe.id ===
newRecipe.id);
        recipes[index] = newRecipe;
        setRecipes(recipes);
      }
    });

    if (search) {
      filterRecipes();
    }
  }

  //Filter recipes by title and ingredients
  const filterRecipes = () => {
    const filteredRecipesByTitle = recipes.filter(recipe =>
recipe?.title.toLowerCase().includes(search.toLowerCase()));
    const filteredRecipesByIngredients = recipes.filter(recipe =>
recipe?.ingredients.some(ingredient =>
ingredient.text.toLowerCase().includes(search.toLowerCase())));
    //merge the two arrays without same id
    const filteredRecipes = [...filteredRecipesByTitle,
...filteredRecipesByIngredients].filter((recipe, index, self) =>
      index === self.findIndex((t) => (
        t.id === recipe.id
      ))
    );
    setRecipes(filteredRecipes);
  }
}

```

```

//update recipe in Firebase database
const updateRecipe = async (e, recipe, ingredients) => {
  e.preventDefault();
  recipe.ingredients = [];
  ingredients.map(ingredient => {
    recipe.ingredients.push({text: ingredient});
  });

  updateDoc(doc(database, "recipes", recipe.id), recipe).then(()
=> {
    getUserRecipes();
    setOpenModifySnackBar(true);
  }).catch(() => {
    console.log("Error updating recipe");
  });
}

//remove recipes by ID from Firebase database
const removeRecipe = async (e, id) => {
  e.preventDefault();
  deleteDoc(doc(database, "recipes", id))
    .then(() => {
      //remove recipe from recipes
      setRecipes(recipes => recipes.filter(recipe =>
recipe.id !== id));
      setOpenRemoveSnackBar(true);
      sessionStorage.setItem("openDeleteSnackBar", "true");
      window.location.reload();
    }).catch(() => {
      console.log("Error removing recipe");
    });
}

//Refresh recipes of the cookbook from the firebase database
const refreshRecipes = async () => {
  recipes.map(async (recipe) => {
    if (recipe.id) {
      const docRef = doc(database, "recipes", recipe.id);
      const docSnap = await getDoc(docRef);

      if (docSnap.exists()) {
        //if the recipe exists in the recipes array, update
the recipe

```



```

        const recipe = docSnap.data();
        recipe.id = docSnap.id;
        recipe.ingredients =
recipe.ingredients.map(ingredient => ingredient.text);
        setRecipes(recipes.map((r) => r.id === recipe.id ?
recipe : r));
    } else {
        // doc.data() will be undefined in this case
        console.log("No such document!");
    }
}
});
}

useEffect(async () => {
    //If the user is not logged in, redirect to the login page
    //To handle the case where the user is not logged in and tries
to access the page
    if(!user){
        navigate("/");
    }
    await getUserRecipes(search);
    if (sessionStorage.getItem("openDeleteSnackbar")) {
        setOpenRemoveSnackbar(true);
        sessionStorage.removeItem("openDeleteSnackbar");
    }
    if (!search) {
        await refreshRecipes();
    }
}, [search]);

const updateSearch = e => {
    setSearch(e.target.value);
}

const handleCloseSuccessSnackbar = () => {
    setOpenSuccessSnackbar(false);
};

const handleCloseModifySnackbar = () => {
    setOpenModifySnackbar(false);
};

```

```

const handleCloseRemoveSnackbar = () => {
  setOpenRemoveSnackbar(false);
};

return {
  search,
  recipes,
  updateSearch,
  updateRecipe,
  removeRecipe,
  handleCloseSuccessSnackbar,
  handleCloseModifySnackbar,
  handleCloseRemoveSnackbar,
  openSuccessSnackbar,
  openModifySnackbar,
  openRemoveSnackbar
}
}

export default MyRecipesLogic;

```

## Navigation Bar

### Navigation Bar File

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import {doc, onSnapshot} from "firebase/firestore";
import {database}
from "../..../FirebaseConfig";
import React, {useEffect, useState} from "react";
//MUI icons
import {
  AccountBoxRounded,
  ChatRounded,
  CloseRounded,
  FoodBankRounded,
  Menu,
  MenuBookRounded,
  Notifications, NotificationsActive,

```

```

    PublicRounded
} from "@mui/icons-material";
//MUI Material
import {
  Box,
  Divider,
  Drawer,
  IconButton,
  List,
  ListItem,
  ListItemIcon,
  ListItemText,
  Toolbar, Tooltip,
  Typography
} from "@mui/material";
import MuiAppBar from "@mui/material/AppBar";
//MUI styles
import {useTheme}          from "@mui/material/styles";
//React Bootstrap
import {Button, Col}      from "react-bootstrap";
//Router DOM
import {useNavigate} from "react-router-dom";
//User auth context
import {useUserAuth} from "../../context/UserAuthContext";
//Styles
import {DrawerHeader, AppBar} from "./NavigationBarStyles";

//NavigationBar component
const NavigationBar = () => {
  const { logOut } = useUserAuth();
  const user = JSON.parse(sessionStorage.getItem("user"));
  const theme = useTheme();
  const navigate = useNavigate();

  const handleLogOut = async () => {
    try{
      sessionStorage.removeItem('user');
      navigate('/');
      await logOut();
    } catch(err) {
      console.log(err.message);
    }
  }
};

```

```

//Burger Menu Start
const drawerWidth = 260;
const [open, setOpen] = useState(false);
const [currentPage, setCurrentPage] = useState("");
const [unreadMessages, setUnreadMessages] = useState(false);

//Basic use effect
useEffect(async () => {
  //Initialize the current page name, first letter is a major
letter
  let currentPage =
window.location.pathname.slice(1,2).toUpperCase() +
window.location.pathname.slice(2);
  if (currentPage === "Mycookbooks") currentPage = "My
Cookbooks";
  if (currentPage === "Myrecipes") currentPage = "My Recipes";
  setCurrentPage(currentPage);
}, []);

//Use effect when user changes
useEffect(() => {
  if (sessionStorage.getItem("user")) {
    const unsubscribe = onSnapshot(doc(database, "users/" +
user.uid), (doc) => {
      setUnreadMessages(doc.data()?.unreadMessages);
    });
    return unsubscribe;
  }
}, [user]);

//Burger Menu Close
const handleDrawerClose = () => {
  setOpen(false);
};

//Burger Menu Open
const handleDrawerOpen = () => {
  setOpen(true);
};

//Navigate to a page
const navigateTo = (path) =>{
  if (!user) {
    navigate("/login");
  }
}

```

```

    } else {
      setOpen(false);
      //delete spaces in the path
      path = path.replace(/\s/g, '');
      //navigate to the path
      navigate('/') + path.toLowerCase();
    }
  }
}

return(
  <Col lg={12} mf={12} sm={12}>
    <Box>
      <AppBar position="fixed">
        <Toolbar className="navBg">
          { /*Burger Menu Icon*/ }
          <IconButton size="large" edge="start"
color="inherit" onClick={handleDrawerOpen} aria-label="menu">
            <Menu color="inherit" aria-label="open
drawer" edge="start" sx={{...(open && { display: 'none' }) }} />
          </IconButton>

          <Typography variant="h6" component="div" sx={{
flexGrow: 1, marginLeft: 2}}> {currentPage}</Typography>
          <Tooltip title={unreadMessages ? "You have
unread messages" : "You don't have unread messages"}>
            <IconButton onClick={() =>
navigate("/messages")}>
              {
                unreadMessages
                ?<NotificationsActive
sx={{color: "white"}}/>
                :<Notifications sx={{color:
"white"}}/>
              }
            </IconButton>
          </Tooltip>
          <Button className="logoutBtn"
onClick={handleLogOut}>Logout</Button>
        </Toolbar>
      </AppBar>
      { /*{Burger Menu}*/ }
      <Drawer sx={{width: drawerWidth, flexShrink: 0, '&
.MuiDrawer-paper':{width: drawerWidth, boxSizing: 'border-box',

```

```

backgroundColor: '#FA4616'},}) variant="persistent" anchor="left"
open={open}>
    <DrawerHeader className="burgerMenuBg">
        <IconButton className="menuOptions"
onClick={handleDrawerClose}>
            {theme.direction === 'ltr' ? <CloseRounded
className="menuOptions"/> : <CloseRounded /> }
        </IconButton>
    </DrawerHeader>
    <Divider />
    <List className="menuOptions">
        {/*List of navigation pages*/}
        {['Profile', 'Recipes', 'Discover', 'My
Recipes', 'My Cookbooks', 'Messages'].map((text, index) => (
            <ListItem button key={index} onClick={ ()
=> navigateTo(text)}>
                <ListItemIcon>
                    {index === 0 && <AccountBoxRounded
className="menuOptions"/>}
                    {index === 1 && <MenuBookRounded
className="menuOptions"/>}
                    {index === 2 && <PublicRounded
className="menuOptions"/>}
                    {index === 3 && <MenuBookRounded
className="menuOptions"/>}
                    {index === 4 && <FoodBankRounded
fontSize="medium" className="menuOptions"/>}
                    {index === 5 && <ChatRounded
className="menuOptions"/>}
                </ListItemIcon>
                <ListItemText primary={text} />
            </ListItem>
        ))}
    </List>
</Drawer>
</Box>
</Col>
)
}

export default NavigationBar;

```

## Navigation Bar Style File

```
/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import MuiAppBar from "@mui/material/AppBar";
import {styled} from "@mui/material/styles";

const drawerWidth = 260;

export const DrawerHeader = styled('div')(({ theme }) => ({
  display: 'flex',
  alignItems: 'center',
  padding: theme.spacing(0, 1),
  // necessary for content to be below app bar
  ...theme.mixins.toolbar,
  justifyContent: 'flex-end',
}));

export const AppBar = styled(MuiAppBar, {
  shouldForwardProp: (prop) => prop !== 'open',
})(({ theme, open }) => ({
  transition: theme.transitions.create(['margin', 'width'], {
    easing: theme.transitions.easing.sharp,
    duration: theme.transitions.duration.leavingScreen,
  }),
  ...(open && {
    width: `calc(100% - ${drawerWidth}px)`,
    marginLeft: `${drawerWidth}px`,
    transition: theme.transitions.create(['margin', 'width'], {
      easing: theme.transitions.easing.easeOut,
      duration: theme.transitions.duration.enteringScreen,
    }),
  }),
}));
```

## New Recipe Card

### New Recipe Card JS File

```
/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */
```

```

import React                                                    from "react";
//MUI icons
import {Add, Done, FileUpload, Remove}                        from
"@mui/icons-material";
import ExpandMoreIcon                                        from
"@mui/icons-material/ExpandMore";
//MUI material
import {CardActionArea, CardActions, CardMedia, Collapse} from
"@mui/material";
//React bootstrap
import {Col, Row}                                            from
"react-bootstrap";
//Logic
import NewRecipeCardLogic from "./NewRecipeCardLogic";
//Styles
import {ExpandMore, BootstrapInput, BootstrapButton, CardContentStyled,
CardStyles} from "./NewRecipeCardStyles";

const NewRecipeCard = ({addRecipe}) => {

  const {
    expanded,
    expandedMethod,
    title,
    image,
    ingredients,
    calories,
    ingredient,
    method,
    handleExpandClick,
    handleExpandMethod,
    updateTitle,
    updateImageFile,
    updateMethod,
    addIngredient,
    updateCalories,
    updateIngredient,
    checkRecipe,
    deleteIngredient,
    emptyFields

  } = NewRecipeCardLogic ();

```



```

return (
  /*card around add recipe */,
  <Col>
    <CardContentStyled>
      <BootstrapInput multiline className="input-100
recipe-input" placeholder="Recipe" onChange={updateTitle}
required={true} value={title}/>
      <BootstrapInput multiline className="input-100"
placeholder="Calories" onChange={updateCalories} required={true}
value={calories}/>
    </CardContentStyled>
    <CardActionArea >
      <Row sx={{justifyContent:"center"}}>
        <label htmlFor="image-input">
          <CardMedia component="img" height="300"
width="100%" image={image} alt="Recipe image"
style={CardStyles.media}/>
        </label>
        <label htmlFor="image-input">
          <FileUpload className="upload-icon"
style={CardStyles.overlay} fontSize="large" color="primary"/>
        </label>
        <input id="image-input" type="file"
onChange={updateImageFile} hidden={true} required={true}/>
      </Row>
    </CardActionArea>
    <CardActions disableSpacing>
      <div>Ingredients</div>
      <ExpandMore expand={expanded}
onClick={handleExpandClick} aria-expanded={expanded} aria-label="show
more">
        <ExpandMoreIcon />
      </ExpandMore>
    </CardActions>
    <Collapse in={expanded} timeout="auto" unmountOnExit>
      <CardContentStyled>
        /*List of ingredients*/
        {ingredients && ingredients.map((ingredient,
index) =>(
          <BootstrapButton
            key={index}
            variant="contained"
            disableElevation
            aria-expanded={expanded}

```

```

        aria-label="show more"
        onClick={() =>
deleteIngredient(index) }
        endIcon={<Remove color={"error"}/>}
    >
        {ingredient}
    </BootstrapButton>
    )))
    { /*Add ingredient input*/ }
    <BootstrapInput multiline
className="input-100 recipe-input" placeholder="Ingredient"
value={ingredient} onChange={updateIngredient} />
    <BootstrapButton
        variant="contained"
        disableElevation
        onClick={addIngredient}
        endIcon={<Add color={"success"}/>}
    >
        Add an ingredient
    </BootstrapButton>
</CardContentStyled>
</Collapse>
{ /*Add a method*/ }
<CardActions disableSpacing>
    <div>Method</div>
    <ExpandMore expand={expandedMethod}
onClick={handleExpandMethod} aria-expanded={expandedMethod}
aria-label="show more">
        <ExpandMoreIcon />
    </ExpandMore>
</CardActions>
<Collapse in={expandedMethod} timeout="auto"
unmountOnExit>
    <CardContentStyled>
        <BootstrapInput multiline className="input-100
recipe-input" placeholder="Method" onChange={updateMethod}
required={true} value={method} />
    </CardContentStyled>
</Collapse>
<CardContentStyled sx={{paddingBottom: '0'}}>
    { /*Add recipe button*/ }
    <BootstrapButton
        color="secondary"
        variant="contained"

```

```

        disableElevation
        disabled={!checkRecipe()}
        onClick={(event) => addRecipe(event, {title,
image, calories, method}, ingredients).then(emptyFields)}
        type="submit"
        endIcon={<Done color={checkRecipe() ? "success"
: "disabled"}/>}
      >
        Validate
      </BootstrapButton>
    </CardContentStyled>
  </Col>
);
}

export default NewRecipeCard;

```

## New Recipe Card Logic JS File

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import * as firebaseServices from "../../services/FirebaseServices";
import {useState} from "react";

const NewRecipeCardLogic = () => {
  const [expanded, setExpanded] = useState(true);
  const [expandedMethod, setExpandedMethod] = useState(true);
  const [title, setTitle] = useState("");
  const [image, setImage] =
useState("https://caer.univ-amu.fr/wp-content/uploads/default-placeholder.png");
  const [ingredients, setIngredients] = useState([]);
  const [calories, setCalories] = useState("");
  const [ingredient, setIngredient] = useState("");
  const [imageFile, setImageFile] = useState(null);
  const [method, setMethod] = useState("");

```

```

//empty the recipe fields
const emptyFields = () => {
  setTitle("");

setImage("https://caer.univ-amu.fr/wp-content/uploads/default-placeholder.png");

  setIngredients([]);
  setCalories("");
  setIngredient("");
  setMethod("");
}

//add an ingredient to the ingredients list with the plus button
const addIngredient = () => {
  if (ingredient !== "") {
    setIngredients(ingredients => [...ingredients,
ingredient]);
    setIngredient("");
  }
}

//control accordion
const handleExpandClick = () => {
  setExpanded(!expanded);
};

//control accordion
const handleExpandMethod = () => {
  setExpandedMethod(!expandedMethod);
};

//delete an ingredient from the ingredients list
const deleteIngredient = (index) => {
  const newIngredients = [...ingredients];
  newIngredients.splice(index, 1);
  setIngredients(newIngredients);
}

//check if the recipe is valid
const checkRecipe = () => {
  if (title === "" || image ===
"https://caer.univ-amu.fr/wp-content/uploads/default-placeholder.png"
|| ingredients.length === 0 || calories === "") {
    return false;
  }
}

```

```

    }
    return true;
  }

  //upload an image to the Firebase storage
  const uploadImage = (file) => {
    firebaseServices.uploadFile(file).then(url => {
      setImage(url);
    }).catch(error => {
      console.log(error);
    });
  }

  //update calories state if it's a number
  const updateCalories = e => {
    if(isNaN(e.target.value)) {
      return;
    }
    setCalories(e.target.value);
  }

  //update title state
  const updateTitle = e => {
    setTitle(e.target.value);
  }

  //update image state
  const updateImageFile = e => {
    if(e.target.files[0]) {
      setImageFile(e.target.files[0]);
      uploadImage(e.target.files[0])
    }
  }

  //update ingredient state
  const updateIngredient = e => {
    setIngredient(e.target.value);
  }

  //update method state
  const updateMethod = e => {
    setMethod(e.target.value);
  }

```

```

return {
  expanded,
  expandedMethod,
  title,
  image,
  ingredients,
  calories,
  ingredient,
  method,
  handleExpandClick,
  handleExpandMethod,
  updateTitle,
  updateImageFile,
  updateMethod,
  addIngredient,
  updateCalories,
  updateIngredient,
  checkRecipe,
  deleteIngredient,
  emptyFields
}
}

export default NewRecipeCardLogic;

```

## New Recipe Card Style JS File

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

//recipe Card styling
import {Button, CardContent, IconButton, InputBase} from
"@mui/material";
import {alpha, styled} from
"@mui/material/styles";
import React from "react";

export const ExpandMore = styled((props) => {
  const { expand, ...other } = props;
  return <IconButton {...other} />;

```

```

}))
(({ theme, expand }) => ({
  transform: !expand ? 'rotate(0deg)' : 'rotate(180deg)',
  marginLeft: 'auto',
  transition: theme.transitions.create('transform', {
    duration: theme.transitions.duration.shortest,
  }),
})),
}));

export const BootstrapInput = styled(InputBase)(({ theme }) => ({
  'label + &': {
    marginTop: theme.spacing(3),
  },
  '& .MuiInputBase-input': {
    borderRadius: 4,
    position: 'relative',
    backgroundColor: theme.palette.mode === 'light' ? '#fcfcfb' :
'#2b2b2b',
    border: '1px solid #ced4da',
    fontSize: 16,
    width: '100%',
    padding: '10px 10px 10px 10px',
    margin: '5px 0px 5px 0px',
    transition: theme.transitions.create([
      'border-color',
      'background-color',
      'box-shadow',
    ]),
    // Use the system font instead of the default Roboto font.
    fontFamily: [
      '-apple-system',
      'BlinkMacSystemFont',
      '"Segoe UI"',
      'Roboto',
      '"Helvetica Neue"',
      'Arial',
      'sans-serif',
      '"Apple Color Emoji"',
      '"Segoe UI Emoji"',
      '"Segoe UI Symbol"',
    ].join(','),
    '&:focus': {
      //transparent for #FA4616
      boxShadow: ` ${alpha('#FA4616', 0.25)} 0 0 0 0.2rem`,
    }
  }
}));

```

```

        borderColor: '#FA4616',
      },
    },
  }));

export const BootstrapButton = styled(Button)({
  boxShadow: 'none',
  textTransform: 'none',
  fontSize: 16,
  padding: '6px 12px',
  border: '1px solid #FA4616',
  width: '100%',
  lineHeight: 1.5,
  color: "#1d1d1d",
  backgroundColor: '#f5f5f5',
  borderColor: `${alpha('#f5f5f5', 0.25)} 0 0 0 0.2rem`,
  justifyContent: 'space-between',
  fontFamily: [
    '-apple-system',
    'BlinkMacSystemFont',
    '"Segoe UI"',
    'Roboto',
    '"Helvetica Neue"',
    'Arial',
    'sans-serif',
    '"Apple Color Emoji"',
    '"Segoe UI Emoji"',
    '"Segoe UI Symbol"',
  ].join(','),
  '&:hover': {
    backgroundColor: '#f5f5f5',
    borderColor: `${alpha('#f5f5f5', 0.25)} 0 0 0 0.2rem`,
    boxShadow: 'none',
  },
  '&:active': {
    boxShadow: 'none',
    backgroundColor: '#f5f5f5',
    borderColor: `${alpha('#f5f5f5', 0.25)} 0 0 0 0.2rem`,
  },
  '&:focus': {
    boxShadow: `${alpha('#f5f5f5', 0.25)} 0 0 0 0.2rem`,
  },
});

```



```

export const CardContentStyled = styled(CardContent) `
  padding: 0;
`;

export const CardStyles = {
  media: {
    paddingTop: '0',
    cursor: 'pointer',
    marginRight: "10px"
  },
  card: {
    position: 'relative',
  },
  overlay: {
    backgroundColor: 'rgba(0,0,0,0.1)',
    position: 'absolute',
    top: '75%',
    left: '50%',
    transform: 'translate(-50%, -50%)',
    color: '#FA4616',
    cursor: 'pointer',
    padding: '2px',
    borderRadius: '50%'
  }
};

```

## Profile

### Delete Profile Dialog JS File

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import {deleteDoc, doc}      from "firebase/firestore";
import {database}            from "../..../FirebaseConfig";
import PromptForCredentials from "../PromptForCredentials";
import React, {useState}    from 'react';
import Button                from 'react-bootstrap/Button';
import Dialog                from '@mui/material/Dialog';
import DialogActions         from '@mui/material/DialogActions';
import DialogContent         from '@mui/material/DialogContent';
import DialogContentText     from '@mui/material/DialogContentText';

```

```

import DialogTitle      from '@mui/material/DialogTitle';
import useMediaQuery    from '@mui/material/useMediaQuery';
import { useTheme }     from '@mui/material/styles';

import { getAuth, deleteUser, reauthenticateWithCredential,
EmailAuthProvider } from "firebase/auth";
import {useNavigate} from "react-router-dom";
import {useUserAuth} from "../../context/UserAuthContext";

const DeleteProfileDialog = () => {
  const theme = useTheme();
  const fullScreen = useMediaQuery(theme.breakpoints.down('md'));

  const {logOut} = useUserAuth();
  const navigate = useNavigate();
  const auth = getAuth();
  const user = auth.currentUser;

  const [open, setOpen] = useState(false);
  const [password, setPassword] = useState("");
  const [openPrompt, setOpenPrompt] = useState(false);
  const [credentials, setCredentials] = useState({});

  const handleOpenPrompt = async () => {
    setOpenPrompt(true);
  };

  const handleClosePrompt = () => {
    setOpenPrompt(false);
  };

  //Change password
  const handleChangePassword = (event) => {
    setPassword(event.target.value);
    setCredentials({...credentials, password: event.target.value});
  };

  const handleClickOpen = () => {
    setOpen(true);
  };

  const handleClose = () => {
    setOpen(false);
  };
};

```

```

//Prompt to re authenticate
const promptForCredentials = () => {
  handleOpenPrompt();
};

//Handle confirm button for re authentication with credentials
const handleConfirm = () => {
  const credential = EmailAuthProvider.credential(
    auth.currentUser.email,
    password
  );
  reauthenticateWithCredential(user, credential).then(async () =>
{
  console.log("User re-authenticated.");
  await deleteDoc(doc(database, "users/" + user?.uid));
  deleteUser(user)
    .then(() => {
      handleClosePrompt();
      handleClose();
      logout();
      sessionStorage.clear();
      navigate("/");
    })
    .catch((error) => {
      console.log("Error removing user: ", error);
    });
  }).catch((error) => {
    handleClosePrompt();
    handleClose();
    setPassword("");
    console.log("User re-authentication failed.",
error);
  });
}

//Handle delete account
const handleDeleteAccount = async () => {
  await deleteDoc(doc(database, "users/" + user?.uid));
  deleteUser(user).then(() => {
    handleClose();
    logout();
    sessionStorage.clear();
    navigate("/");
  });
}

```

```

    }).catch((error) => {
      //Prompt the user to re-provide their sign-in credentials
      promptForCredentials();
    });
  };

return (
  <div>
    <div className="d-grid">
      <Button variant="danger" onClick={handleClickOpen}>
        Delete your account
      </Button>
    </div>
    <Dialog
      fullscreen={fullScreen}
      open={open}
      onClose={handleClose}
      aria-labelledby="responsive-dialog-title"
    >
      <DialogTitle id="responsive-dialog-title">
        {"Are you sure you want to delete your account?"}
      </DialogTitle>
      <DialogContent>
        <DialogContentText>
          All your data will be deleted.
        </DialogContentText>
      </DialogContent>
      <DialogActions>
        <Button variant="primary" autoFocus
onClick={handleClose}>
          No
        </Button>
        <Button variant="danger"
onClick={handleDeleteAccount}>
          Yes
        </Button>
      </DialogActions>
    </Dialog>
    <PromptForCredentials
      openPrompt={openPrompt}
      handleClosePrompt={handleClosePrompt}
      handleChangePassword={handleChangePassword}
      handleConfirm={handleConfirm}
      password={password}

```

```
        />  
      </div>  
    );  
}  
  
export default DeleteProfileDialog;
```

## Profile JS File

```
/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

//MUI Icons
import EditIcon
from '@mui/icons-material/Edit';
//MUI material
import {Alert, Avatar, Container, IconButton, Snackbar, Typography}
from "@mui/material";
//Firebase
import React
from "react";
//React Bootstrap
import {Button, Col, Form, Row}
from "react-bootstrap";
import DeleteProfileDialog
from "../DeleteProfileDialog";
//Components
import NavigationBar
from "../NavigationBar/NavigationBar";
//Logic
import ProfileLogic
from "../ProfileLogic";

const Profile = () => {

  const {
    firstname,
    surname,
    email,
    photoURL,
    update,
    openSuccessSnackbar,
    openErrorSnackbar,
    successMessage,
    errorMessage,
    handleSubmit,
    resetPassword,
    updateImageFile,
    numberOfRecipes,
  }
```

```

        setUpdate,
        setFirstname,
        setSurname,
        setEmail,
        setOpenSuccessSnackbar,
        setOpenErrorSnackbar,
    } = ProfileLogic();

return (
  <div>
    <Container className="mt-5">
      <Row>
        <NavigationBar/>
      </Row>
    </Container>
    <Container className="mt-5">
      <Row className="justify-content-center float-right">
        <Col lg={6} >
          <Row className="float-end">
            { /*Swap to update mode*/ }
            <IconButton onClick={() =>
setUpdate(!update)}>
              <EditIcon sx={{color:"#FA4616"}}/>
            </IconButton>
          </Row>
        </Col>
      </Row>
      <Row className={"justify-content-center text-center"} >
        <Col lg={5}>
          <IconButton>
            <label htmlFor="image-input">
              { /*Change profile picture*/ }
              <Avatar alt="avatar"
srcSet={photoURL} sx={{padding: 0, width:"150px", height:"150px",
cursor: "pointer"}}/>
            </label>
          </IconButton>
          <input id="image-input" type="file"
onChange={updateImageFile} hidden={true} required={true}/>
          <Typography >{numberOfRecipes}
recipes</Typography>
        </Col>
      </Row>
    </Container>
  </div>
);

```

```

<Container sx={{marginTop: "50px"}}>
  <Row className={"justify-content-center"}>
    <Col lg={6}>
      { /*Update profile form*/ }
      <Form onSubmit={handleSubmit} >
        <Row>
          <Col lg={6} md={6} sm={6} mf={6}>
            <Form.Group className="mb-3"
controlId="formBasicFirstname">
              <Form.Label>Firstname</Form.Label>
              <Form.Control type="text"
placeholder="Enter firstname" onChange={ (e) =>
setFirstname(e.target.value)} value={firstname ?? ""}
disabled={!update}/>
            </Form.Group>
          </Col>
          <Col lg={6} md={6} sm={6} mf={6}>
            <Form.Group className="mb-3"
controlId="formBasicSurname">
              <Form.Label>Surname</Form.Label>
              <Form.Control type="text"
placeholder="Enter surname" onChange={ (e) =>
setSurname(e.target.value)} value={surname ?? ""} disabled={!update}/>
            </Form.Group>
          </Col>
        </Row>
        <Form.Group className="mb-3"
controlId="formBasicEmail">
          <Form.Label>Email address</Form.Label>
          <Form.Control type="email"
placeholder="Enter email" onChange={ (e) => setEmail(e.target.value)}
value={email} readOnly />
        </Form.Group>

        <div className="d-grid">
          <Button className="text-light"
variant="primary" onClick={resetPassword}>Reset password by
email</Button>
        </div>

        <div className="d-grid mt-3">
          <Button className="text-light"
variant="primary" type="submit">Save</Button>

```



```

        </div>

        <div className="d-grid mt-3">
            <DeleteProfileDialog />
        </div>
    </Form>
</Col>
</Row>
</Container>
{ /*Snackbars*/ }
<Snackbar open={openSuccessSnackbar}
autoHideDuration={6000} onClose={() => setOpenSuccessSnackbar(false)}>
    <Alert onClose={() => setOpenSuccessSnackbar(false)}
severity="success" sx={{ width: '100%' }}>
        {successMessage}
    </Alert>
</Snackbar>
<Snackbar open={openErrorSnackbar} autoHideDuration={6000}
onClose={() => setOpenErrorSnackbar(false)}>
    <Alert onClose={() => setOpenErrorSnackbar(false)}
severity="error" sx={{ width: '100%' }}>
        {errorMessage}
    </Alert>
</Snackbar>
</div>
);
}

export default Profile;

```

## Profile Logic JS File

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import {useEffect, useState} from
"react";
//React Router
import {useNavigate} from
"react-router-dom";
//Firebase

```

```

import {getAuth, sendPasswordResetEmail, updateProfile}      from
"firebase/auth";
import {collection, doc, getDoc, getDocs, query, setDoc, where} from
"firebase/firestore";
import {database}                                            from
"../../FirebaseConfig";
import * as firebaseServices                                from
"../../services/FirebaseServices";

const ProfileLogic = () => {

  const auth = getAuth();
  const user = JSON.parse(sessionStorage.getItem('user'));
  const navigate = useNavigate();

  const [userData, setUserData] = useState({});
  const [numberOfRecipes, setNumberOfRecipes] = useState(0);
  const [recipes, setRecipes] = useState([]);
  const [photoURL, setPhotoURL] = useState('');
  const [firstname, setFirstname] = useState('');
  const [surname, setSurname] = useState('');
  const [email, setEmail] = useState('');
  const [update, setUpdate] = useState(false);
  const [openSuccessSnackbar, setOpenSuccessSnackbar] =
useState(false);
  const [openErrorSnackbar, setOpenErrorSnackbar] = useState(false);
  const [successMessage, setSuccessMessage] = useState('');
  const [errorMessage, setErrorMessage] = useState('');

  //Get user data from Firebase database
  const getUserData = async () => {
    const docRef = doc(database, "users", user.uid);
    const docSnap = await getDoc(docRef);
    if (docSnap.exists) {
      setUserData(docSnap.data());
      setFirstname(docSnap.data().displayName?.split(' ')[0]);
      setSurname(docSnap.data().displayName?.split(' ')[1]);
      setEmail(docSnap.data().email);
      setPhotoURL(user.photoURL);
    }
  }

  //Fetching recipes from Firebase database
  const getUserRecipes = async () => {

```

```

    const q = query(collection(database, "recipes"), where("uid",
"==", user.uid));
    const querySnapshot = await getDocs(q);
    querySnapshot.forEach((doc) => {
      let newRecipe = doc.data();
      //if the id of a recipe is not already in the array, add
the recipe
      newRecipe.id = doc.id;
      if(!recipes.some(recipe => recipe.id === newRecipe.id)){
        setNumberOfRecipes(numberOfRecipes => numberOfRecipes +
1);

        setRecipes(recipes => [...recipes, newRecipe]);
      }
    });
  }

//Handle form submit
const handleSubmit = async (e) => {
  e.preventDefault();
  await updateUserData();
  setSuccessMessage("Profile successfully updated !");
  setOpenSuccessSnackbar(true);
}

//Update user data in Firebase database
const updateUserData = async () => {
  const userRef = doc(database, "users", user.uid);
  await setDoc(userRef, {
    displayName: firstname + ' ' + surname,
    email: email,
    createdAt: new Date().getTime(),
    photoURL: photoURL
  }, {merge: true});
  await updateProfile(auth.currentUser, {
    displayName: firstname + ' ' + surname, photoURL: photoURL
  }).then(() => {
    const user = JSON.parse(sessionStorage.getItem('user'));
    user.photoURL = photoURL;
    sessionStorage.setItem('user', JSON.stringify(user));
    setUpdate(false);
  }).catch((error) => {
    console.log(error);
  });
});

```

```

}

//Reset password with an email
const resetPassword = async () => {
  sendPasswordResetEmail(auth, user.email)
    .then(() => {
      setSuccessMessage("Email sent to " + user.email);
    }).catch(() => {
      setErrorMessage("Mail error");
    });
}

//Upload an image to the Firebase storage
const uploadImage = (file) => {
  firebaseServices.uploadFile(file).then(url => {
    setPhotoURL(url);
  }).catch(error => {
    console.log(error);
  });
}

//Update the profile image
const updateImageFile = e => {
  if(e.target.files[0]) {
    uploadImage(e.target.files[0])
  }
}

useEffect(async () => {
  //If the user is not logged in, redirect to the login page
  //To handle the case where the user is not logged in and tries
to access the page
  if(!user){
    navigate("/");
  } else {
    await getUserData();
    await getUserRecipes();
  }
}, []);

return {
  userData,
  firstname,
  surname,

```

```

    email,
    photoURL,
    update,
    openSuccessSnackbar,
    openErrorSnackbar,
    successMessage,
    errorMessage,
    handleSubmit,
    resetPassword,
    updateImageFile,
    uploadImage,
    updateUserData,
    numberOfRecipes,
    setUpdate,
    setFirstname,
    setSurname,
    setEmail,
    setOpenSuccessSnackbar,
    setOpenErrorSnackbar,
    setSuccessMessage,
  }
}

export default ProfileLogic;

```

## Prompt For Credentials JS File

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import Button           from '@mui/material/Button';
import TextField        from '@mui/material/TextField';
import Dialog           from '@mui/material/Dialog';
import DialogActions    from '@mui/material/DialogActions';
import DialogContent    from '@mui/material/DialogContent';
import DialogContentText from '@mui/material/DialogContentText';
import DialogTitle      from '@mui/material/DialogTitle';

```

```

const PromptForCredentials = ({password, handleChangePassword,
openPrompt, handleClosePrompt, handleConfirm}) => {

  return (
    <div>
      <Dialog open={openPrompt} onClose={handleClosePrompt}>
        <DialogTitle>Enter your credentials</DialogTitle>
        <DialogContent>
          <DialogContentText>
            To delete your account, please enter your
password.

          </DialogContentText>
          <TextField
            autoFocus
            margin="dense"
            id="password"
            label="Password"
            type="password"
            fullWidth
            variant="standard"
            value={password}
            onChange={handleChangePassword}
          />
        </DialogContent>
        <DialogActions>
          <Button onClick={handleClosePrompt}>Cancel</Button>
          <Button onClick={handleConfirm}>Confirm</Button>
        </DialogActions>
      </Dialog>
    </div>
  );
}

export default PromptForCredentials;

```

## Protected Route

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

```

```

import React                                from "react";
//React Router
import {Navigate, useLocation} from "react-router-dom";
//React User Context
import { useUserAuth }                      from "../../context/UserAuthContext";

const ProtectedRoute = ({ children }) => {
  const { user } = useUserAuth();

  //async function to check if user is authenticated
  const isAuthenticated = async () => {
    if(!user){
      return true;
    }
    return false;
  }

  if (!isAuthenticated) {
    return <Navigate to="/" />;
  }
  return children;
};

export default ProtectedRoute;

```

## Recipe

### Recipe JS File

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import React, {useEffect, useState}
from "react";
import {Add, Done, FileUpload, MoreVert, Remove, Send, Star,
StarBorder} from "@mui/icons-material";
//MUI Icons
import ExpandMoreIcon
from '@mui/icons-material/ExpandMore';
import FavoriteIcon
from '@mui/icons-material/Favorite';
//MUI Material

```

```

import {
  Alert,
  Avatar,
  Box,
  Card,
  CardActionArea,
  CardActions,
  CardContent,
  CardHeader,
  CardMedia,
  Collapse,
  Divider,
  IconButton,
  Menu,
  MenuItem,
  Snackbar,
  Tooltip,
  Typography
} from '@mui/material';
//Firebase
import {arrayUnion, doc, updateDoc, arrayRemove, getDoc} from
"firebase/firestore";
import {database} from
"../../FirebaseConfig";
import * as firebaseServices from
"../../services/FirebaseServices";
//React Bootstrap
import {Col, Row} from "react-bootstrap";
//React Router Dom
import {useNavigate} from "react-router-dom";
//CSS
import "../Discover/Discover.css";
//Styles
import { BootstrapButton, BootstrapInput, CardStyles,
CardContentStyled, ExpandMore } from "../RecipeStyles";
//Recipe Component
const Recipe = ({title, calories, image, method, ingredients, rating,
reviews, uid, removeRecipe, updateRecipe, id, photoURL,
disableAddToCookbook, userCookbooks, disableReview, displayName,
cookBookMode, cookbookId}) => {
  const user = JSON.parse(sessionStorage.getItem('user'));
  const navigate = useNavigate();

```



```

    const defaultImage =
"https://caer.univ-amu.fr/wp-content/uploads/default-placeholder.png";
    const [menu, setMenu] = useState(null);
    const [menuCookbook, setMenuCookbook] = useState(null);
    const [menuRemoveFromCookbook, setMenuRemoveFromCookbook] =
useState(null);
    const [messageMenu, setMessageMenu] = useState(null);
    const [update, setUpdate] = useState(false);
    const [expanded, setExpanded] = useState(false);
    const [expandedReviews, setExpandedReviews] = useState(false);
    const [expandedUpdate, setExpandedUpdate] = useState(true);
    const [expandedMethod, setExpandedMethod] = useState(false);
    const [expandedMethodUpdate, setExpandedMethodUpdate] =
useState(true);
    const [expandedUpdateIngredient, setExpandedUpdateIngredient] =
useState(true);
    const [titleState, setTitleState] = useState(title);
    const [imageState, setImageState] = useState(image);
    const [ingredientsState, setIngredientsState] =
useState(ingredients);
    const [caloriesState, setCaloriesState] = useState(calories);
    const [ingredient, setIngredient] = useState("");
    const [imageFile, setImageFile] = useState(null);
    const [methodState, setMethodState] = useState(method);
    const [ratingState, setRatingState] = useState(rating);
    const [review, setReview] = useState("");
    const [reviewsState, setReviewsState] = useState(reviews);
    const [openSuccessSnackbar, setOpenSuccessSnackbar] =
useState(false);
    const [renderRating, setRenderRating] = useState(rating);
    const [photoURLState, setPhotoURLState] = useState(photoURL);

    const settings = ['Modify', 'Remove'];
    const settingsCookbookMode = ['Remove from cookbook'];
    const settingsCookbook = userCookbooks;

    //add an ingredient to the ingredients list with the plus button
    const addIngredient = () => {
        if (ingredient !== "") {
            setIngredientsState(ingredientsState =>
[...ingredientsState, ingredient]);
            setIngredient("");
        }
    }

```

```

}

//handle rating change with Firebase
const handleRate = () => {
  const recipeRef = doc(database, "recipes", id);
  let newRating = 0;
  if (!renderRating) {
    newRating = ratingState;
  } else {
    newRating = (ratingState + renderRating) / 2;
  }
  updateDoc(recipeRef, {
    "rating": newRating
  }).then(() => {
    setRenderRating(newRating);
    setRatingState(newRating);
  }).catch(error => {
    console.log(error);
  });
};

//handle rating change with Firebase
const sendReview = (event) => {
  event.preventDefault();
  if (review === "") return;
  const recipeRef = doc(database, "recipes", id);
  const newReview = {
    "text": review,
    "uid": user.uid,
    "rating": ratingState
  };
  if (user.photoURL) newReview.photoURL = user.photoURL;
  if (user.displayName) newReview.displayName =
user.displayName;

  updateDoc(recipeRef, {
    "reviews": arrayUnion(newReview)
  }).then(() => {
    if (reviewsState) {
      setReviewsState(reviewsState => [...reviewsState,
newReview]);
    } else {
      setReviewsState([newReview]);
    }
  });
};

```

```

        setReview("");
        handleRate();
    }).catch(error => {
        console.log(error);
    });
};

//Add a new recipe to the cookbook
const addRecipeToCookbook = (cookbook) => {
    const recipeRef = doc(database, "users/" + user?.uid +
"/cookbooks/" + cookbook.id);
    let recipe = {}
    if(title) recipe.title = title;
    if(image) recipe.image = image;
    if(ingredients) recipe.ingredients = ingredients;
    if(calories) recipe.calories = calories;
    if(rating) recipe.rating = rating;
    if(reviews) recipe.reviews = reviews;
    if(uid) recipe.uid = uid;
    if(id) recipe.id = id;
    if(photoURL) recipe.photoURL = photoURL;

    //Add a recipe in the recipe array of the cookbook
    updateDoc(recipeRef, {
        recipes: arrayUnion(recipe)
    }).then(() => {
        setOpenSuccessSnackbar(true);
        handleCloseMenuCookbook();
    }).catch(error => {
        console.log(error);
    });
};

//Remove a recipe from the cookbook
const handleRemoveRecipeFromCookbook = () => {
    const recipeRef = doc(database, "users/" + user?.uid +
"/cookbooks/" + cookbookId);
    let recipe = {}
    if(title) recipe.title = title;
    if(image) recipe.image = image;
    if(ingredients) recipe.ingredients = ingredients;
    if(calories) recipe.calories = calories;
    if(rating) recipe.rating = rating;
    if(reviews) recipe.reviews = reviews;

```

```

    if(uid) recipe.uid = uid;
    if(id) recipe.id = id;
    if(photoURL) recipe.photoURL = photoURL;

    //Add a recipe in the recipe array of the cookbook
    updateDoc(recipeRef, {
      recipes: arrayRemove(recipe)
    }).then(() => {
      window.location.reload();
    }).catch(error => {
      console.log(error);
    });
  };

  //Refresh the photoURL
  const refreshPhotoURL = () => {
    if (!uid) return;
    const userRef = doc(database, "users/" + uid);
    getDoc(userRef).then(doc => {
      setPhotoURLState(doc.data().photoURL);
    }).catch(error => {
      console.log(error);
    });
  };

  //Refresh the photoURL of the recipe in the reviews
  if (reviewsState) {
    reviewsState.forEach(review => {
      const userRef = doc(database, "users/" + review.uid);
      getDoc(userRef).then(doc => {
        setReviewsState(reviewsState =>
reviewsState.map(review => {
          if (review.uid === userRef.id) {
            review.photoURL = doc.data().photoURL;
          }
          return review;
        }));
      }).catch(error => {
        console.log(error);
      });
    });
  }
};

```

```

//control accordion
const handleExpandClick = () => {
  setExpanded(!expanded);
};

//control accordion
const handleExpandMethod = () => {
  setExpandedMethod(!expandedMethod);
};

//control accordion
const handleExpandUpdateIngredient = () => {
  setExpandedUpdateIngredient(!expandedUpdateIngredient);
};

//control accordion for reviews
const handleExpandClickReviews = () => {
  setExpandedReviews(!expandedReviews);
};

//control accordion method update
const handleExpandMethodUpdate = () => {
  setExpandedMethodUpdate(!expandedMethodUpdate);
};

//control accordion for update Card
const handleExpandUpdateClick = () => {
  setExpandedUpdate(!expandedUpdate);
};

//delete an ingredient from the ingredients list
const deleteIngredient = (index) => {
  const newIngredients = [...ingredientsState];
  newIngredients.splice(index, 1);
  setIngredientsState(newIngredients);
}

//check if the recipe is valid
const checkRecipe = () => {
  return !(titleState === "" || imageState === defaultImage ||
ingredientsState.length === 0 || caloriesState === "" || methodState ===
"");
}

```

```

//upload an image to the Firebase storage
const uploadImage = (file) => {
  firebaseServices.uploadFile(file).then(url => {
    setImageState(url);
  }).catch(error => {
    console.log(error);
  });
}

//update calories field
const updateCalories = e => {
  if(isNaN(e.target.value)) {
    return;
  }
  setCaloriesState(e.target.value);
}

//update title field
const updateTitle = e => {
  setTitleState(e.target.value);
}

//update image field
const updateImageFile = e => {
  if(e.target.files[0]) {
    setImageFile(e.target.files[0]);
    uploadImage(e.target.files[0])
  }
}

//update method field
const updateMethod = e => {
  setMethodState(e.target.value);
}

//update ingredients field
const updateIngredient = e => {
  setIngredient(e.target.value);
}

//update review field
const updateReview = e => {
  setReview(e.target.value);
}

```

```

}

//handle open actions menu
const handleOpenMenu = (event) => {
  setMenu(event.currentTarget);
};

//handle close actions menu
const handleCloseMenu = () => {
  setMenu(null);
};

//handle open messages menu
const handleOpenMessageMenu = (event) => {
  if(user.uid !== uid) {
    setMessageMenu(event.currentTarget);
  }
};

//handle open menu cookbook
const handleOpenMenuCookbook = (event) => {
  if(settingsCookbook.length > 0) {
    setMenuCookbook(event.currentTarget);
  }
};

//handle close menu cookbook
const handleCloseMenuCookbook = (event) => {
  setMenuCookbook(null);
};

//handle open menu remove from cookbook
const handleOpenMenuRemoveRecipeFromCookbook = (event) => {
  if(settingsCookbookMode.length > 0) {
    setMenuRemoveFromCookbook(event.currentTarget);
  }
};

//handle close menu remove from cookbook
const handleCloseMenuRemoveRecipeFromCookbook = (event) => {
  setMenuRemoveFromCookbook(null);
};

```

```

//handle close all menus
const handleCloseAllMenus = () => {
  setMenu(null);
  setMenuCookbook(null);
  setMessageMenu(null);
};

//handle remove recipe from cookbook
const handleRemoveRecipe = (event) => {
  removeRecipe(event);
  handleCloseMenu();
};

//switch to update mode
const controlUpdateMenu = () => {
  setUpdate(true);
  handleCloseMenu();
}

//handle close success snackbar
const handleCloseSuccessSnackbar = () => {
  setOpenSuccessSnackbar(false);
};

//handle update recipe
const handleUpdateRecipe = (event) => {
  event.preventDefault();
  updateRecipe(event, {title: titleState, image: imageState,
method: methodState, calories: caloriesState, id}, ingredientsState);
  handleCloseMenu();
  setUpdate(false);
};

//send message to the user, redirect to Messages page
const sendMessage = () => {
  sessionStorage.setItem("interlocutorUID", uid);
  sessionStorage.setItem("interlocutorName", displayName);
  //redirect to Messages page with uid of the recipe in parameter
  navigate("/messages");
}

//update the rating state
const changeRate = (event, newValue) => {
  setRatingState(newValue);
};

```



```

    }

    useEffect(() => {
        refreshPhotoURL();
    }, []);

    /**card around each recipe */
    return(
        <div>
            /** update card recipe */
            {update
                ? <Card className="mb-4" component="form">
                    <CardContentStyled>
                        <BootstrapInput multiline className="input-100
recipe-input" placeholder="Recipe" onChange={updateTitle}
required={true} value={titleState}/>
                        <BootstrapInput multiline
className="input-100" placeholder="Calories" onChange={updateCalories}
required={true} value={caloriesState}/>
                    </CardContentStyled>
                    <CardActionArea>
                        /**Recipe image*/
                        <label htmlFor="image-input">
                            <CardMedia component="img" height="300"
width="100%" image={imageState} alt="Recipe image"
style={CardStyles.media}/>
                        </label>
                        <label htmlFor="image-input">
                            <FileUpload className="upload-icon"
style={CardStyles.overlay} fontSize="large" color="primary"/>
                        </label>
                        /**Hidden input to change the image file*/
                        <input id="image-input" type="file"
onChange={updateImageFile} hidden={true} required={true}/>
                    </CardActionArea>
                    <CardActions disableSpacing>
                        <div>Ingredients</div>
                        <ExpandMore expand={expandedUpdateIngredient}
onClick={handleExpandUpdateIngredient}
aria-expanded={expandedUpdateIngredient} aria-label="show more">
                            <ExpandMoreIcon />
                        </ExpandMore>
                    </CardActions>
                }
            }
        </div>
    );

```

```

        <Collapse in={expandedUpdateIngredient}
timeout="auto" unmountOnExit>
            <CardContentStyled>
                {/*List of ingredients*/}
                {ingredientsState &&
ingredientsState.map((ingredient, index) =>(
                    <BootstrapButton
                        key={index}
                        variant="contained"
                        disableElevation
                        aria-expanded={expanded}
                        aria-label="show more"
                        onClick={() =>
deleteIngredient(index)}
                        endIcon={<Remove
color={"error"}/>}
                    >
                        {ingredient}
                    </BootstrapButton>
                )}}
                <BootstrapInput multiline
className="input-100 recipe-input" placeholder="Ingredient"
value={ingredient} onChange={updateIngredient} />
                {/*Add ingredient button*/}
                <BootstrapButton
                    variant="contained"
                    disableElevation
                    onClick={addIngredient}
                    endIcon={<Add color={"success"}/>}
                >
                    Add an ingredient
                </BootstrapButton>
            </CardContentStyled>
        </Collapse>
        {/*Update recipe method*/}
        <CardActions disableSpacing
expand={expandedMethodUpdate.toString()}
onClick={handleExpandMethodUpdate} aria-expanded={expandedMethodUpdate}
aria-label="show more" sx={{cursor:"pointer"}}>
            <div>Method</div>
            <ExpandMore>
                <ExpandMoreIcon />
            </ExpandMore>
        </CardActions>

```

```

        <Collapse in={expandedMethodUpdate} timeout="auto"
unmountOnExit>
            <CardContent>
                <BootstrapInput multiline
className="input-100 recipe-input" placeholder="Method"
onChange={updateMethod} required={true} value={methodState}/>
            </CardContent>
        </Collapse>
        <CardContentStyled sx={{paddingBottom: '0'}}>
            {/*Modify button*/}
            <BootstrapButton
                color="secondary"
                variant="contained"
                disableElevation
                disabled={!checkRecipe()}
                onClick={handleUpdateRecipe}
                type="submit"
                endIcon={<Done color={checkRecipe() ?
"success" : "disabled"}/>}
            >
                Modify
            </BootstrapButton>
        </CardContentStyled>
    </Card>
    // Display card recipe
    : <Card className="mb-4 p-0" component="form">
        {/*If it's a user recipe, display the user's
avatar*/}
        <CardHeader
            avatar={
                <>
                    {uid
                        ? <Avatar src={photoURLState}
alt={"photo"} onClick={handleOpenMessageMenu} sx={{cursor:"pointer"}}/>
                        : <Col sx={{width: 0, margin: 0,
padding: 0}}></Col>
                }
            {/*Send a message menu*/}
            <Menu
                sx={{ mt: '45px' }}
                id="menu-appbar"
                anchorEl={messageMenu}
                anchorOrigin={{
                    vertical: 'top',

```

```

        horizontal: 'right',
      }}
      transformOrigin={{
        vertical: 'top',
        horizontal: 'right',
      }}
      open={Boolean(messageMenu)}
      onClose={handleCloseAllMenus}
      onClick={handleCloseAllMenus}
    >
      [{"Send a message"}].map((setting,
index) => (
        <MenuItem key={index}
onClick={sendMessage}>
          <Typography
textAlign="center">{setting}</Typography>
        </MenuItem>
      ))}
    </Menu>
  </>
}
title={
  <Typography>{titleState}</Typography>
}
action = {
  <>
    /*If it's the current user recipe,
display modification and remove button in menu*/
    {uid === user?.uid &&
      // Menu to update or remove a recipe
      <Box sx={{ flexGrow: 0 }}>
        <Tooltip title="Open settings">
          <IconButton
aria-label="settings" onClick={handleOpenMenu}>
            <MoreVert />
          </IconButton>
        </Tooltip>
        /*Modify and remove menu*/
        <Menu
          sx={{ mt: '45px' }}
          id="menu-appbar"
          anchorEl={menu}
          anchorOrigin={{
            vertical: 'top',

```

```

        horizontal: 'right',
    }}
    transformOrigin={{
        vertical: 'top',
        horizontal: 'right',
    }}
    open={Boolean(menu)}
    onClose={handleCloseMenu}
    onClick={handleCloseMenu}
    >
        {settings.map((setting, index)
=> (
            <MenuItem key={index}
onClick={setting === "Remove" ? handleRemoveRecipe : () =>
controlUpdateMenu()}>
                <Typography
textAlign="center">{setting}</Typography>
            </MenuItem>
        ))}
    </Menu>
</Box>
}
    { /*If it's not the current user recipe,
display the "add to cookbook" button*/}
    {
        uid !== user?.uid &&
!disableAddToCookbook &&
        <>
            <Tooltip
title={settingsCookbook?.length > 0 ? "Add to a Cookbook" : "You have
no Cookbook yet"}>
                <IconButton
aria-label={settingsCookbook?.length > 0 ? "Add to a Cookbook" : "You
have no Cookbook yet"} onClick={handleOpenMenuCookbook}>
                    <FavoriteIcon sx={{color:
"#FA4616"}}/>
                </IconButton>
            </Tooltip>
            { /*Menu to add a recipe to a
cookbook*/}
            <Menu
sx={{ mt: '45px' }}
id="menu-appbar"
anchorEl={menuCookbook}

```

```

        anchorOrigin={{
            vertical: 'top',
            horizontal: 'right',
        }}
        keepMounted
        transformOrigin={{
            vertical: 'top',
            horizontal: 'right',
        }}
        open={Boolean(menuCookbook)}

onClose={handleCloseMenuCookbook}
    >

{settingsCookbook?.map((setting, index) => (
    <MenuItem key={index}
onClick={() => addRecipeToCookbook(setting)}>
        <Typography
textAlign="center">{setting.name}</Typography>
    </MenuItem>
    )
)}
</Menu>
</>
}
    </*Enable to delete a recipe from the
current cookbook*/>
    {
        cookbookMode &&
        <>
            <Box sx={{ flexGrow: 0 }}>
                <Tooltip title="Open
settings">
                    <IconButton
aria-label="settings" onClick={handleOpenMenuRemoveRecipeFromCookbook}>
                        <MoreVert />
                    </IconButton>
                </Tooltip>
                </*Modify and remove
menu*/>
                    <Menu
                        sx={{ mt: '45px' }}
                        id="menu-appbar"
anchorEl={menuRemoveFromCookbook}

```

```

                                anchorOrigin={{
                                    vertical: 'top',
                                    horizontal:
'right',
                                }}
                                transformOrigin={{
                                    vertical: 'top',
                                    horizontal:
'right',
                                }}

open={Boolean(menuRemoveFromCookbook)}

onClose={handleCloseMenuRemoveRecipeFromCookbook}

onClick={handleCloseMenuRemoveRecipeFromCookbook}
                                >

{settingsCookbookMode.map((setting, index) => (
                                <MenuItem
key={index} onClick={setting === "Remove from cookbook" ?
handleRemoveRecipeFromCookbook : null}>
                                <Typography
textAlign="center">{setting}</Typography>
                                </MenuItem>
                                ))}
                                </Menu>
                                </Box>
                                </>
                                }
                                </>
                                }
                                //recipe calories
                                subheader={`\${parseFloat(calories).toFixed(2)}
kcal`}/>
                                {/*Display rating if it's a user recipe*/}
                                {uid &&
                                    //Display rating if it's a user recipe
                                    <CardContent sx={{padding: '5px'}}>
                                        <Box sx={{flexGrow: 0}}
className={"stars"}>
                                            {
                                                Array(5).fill(5).map((_, index) =>
(

```

```

                <IconButton
                    key={index}
                    aria-label="star"
                    disabled
                >
                    {
                        index < renderRating
                            ? <Star
                                sx={{color:"orange"}} fontSize={"small"}/>
                                : <StarBorder
                                    sx={{color:"orange"}} fontSize={"small"}/>
                            }
                    }
                </IconButton>
            ))
        }
    </Box>
</CardContent>
}
<CardMedia component="img" height="300" image={image}
alt=""/>
    { /*Display ingredients*/ }
    <CardActions disableSpacing
expand={expanded.toString()} onClick={handleExpandClick}
aria-expanded={expanded} aria-label="show more"
sx={{cursor:"pointer"}}>
        <div>Ingredients</div>
        <ExpandMore>
            <ExpandMoreIcon />
        </ExpandMore>
    </CardActions>
    <Collapse in={expanded} timeout="auto" unmountOnExit>
        <CardContent>
            { /*List of ingredients*/ }
            {ingredients && ingredients.map((ingredient,
index) =>(
                <div key={index}>
                    <hr/>
                    <Typography paragraph>{ingredient}
</Typography>
                </div>
            ))}
        </CardContent>
    </Collapse>

```



```

        { /*Display reviews collapse if it's a user
recipe*/}

        { uid &&
            <>
                <CardActions disableSpacing
expand={expandedMethod.toString()} onClick={handleExpandMethod}
aria-expanded={expandedMethod} aria-label="show more"
sx={{cursor:"pointer"}}>
                    <div>Method</div>
                    <ExpandMore>
                        <ExpandMoreIcon />
                    </ExpandMore>
                </CardActions>
                <Collapse in={expandedMethod}
timeout="auto" unmountOnExit>
                    <CardContent>
                        <Typography
paragraph>{method}</Typography>
                    </CardContent>
                </Collapse>
                <CardActions disableSpacing
expand={expandedReviews.toString()} onClick={handleExpandClickReviews}
aria-expanded={expandedReviews} aria-label="show more" sx={{cursor:
"pointer"}}>
                    <div>Reviews</div>
                    <ExpandMore>
                        <ExpandMoreIcon />
                    </ExpandMore>
                </CardActions>
                { /*Reviews of the recipe*/}
                <Collapse in={expandedReviews}
timeout="auto" unmountOnExit>
                    <CardContent>
                        { !disableReview &&
                            <>
                                <Row
className={"justify-content-start align-items-center"}>
                                    <Col lg={3}
md={"auto"} sx={{padding: "0px"}}>
                                        <Avatar
src={user?.photoURL} alt="photo"/>
                                    </Col>
                                    <Col lg={"auto"}
md={"auto"} sx={{paddingLeft: 0}}

```

```

className={"justify-content-start align-items-center"}>
    <Typography
sx={{margin: 0, paddingLeft: "8px"}}
paragraph>{user?.displayName} </Typography>
    {
Array(5).fill(5).map((_, index) => (
<IconButton
key={index}
aria-label="star"
onClick={(event) => changeRate(index + 1, index + 1)}
    >
    {
index < ratingState
? <Star sx={{color: "orange"}}
fontSize={"small"}/>
: <StarBorder sx={{color: "orange"}}
fontSize={"small"}/>
    }
</IconButton>
    ))
    }
</Col>
</Row>
<BootstrapInput
multiline
className="input-100
recipe-input"
placeholder="Review"
onChange={updateReview}

```

```

value={review}
required={true}
/>
<BootstrapButton
  variant="contained"
  type="submit"
  disableElevation
  aria-label="show more"
  onClick={sendReview}
  endIcon={<Send
sx={{color: "#FA4616"}}/>}
  sx={{marginBottom:
"10px"}}
  >
    Leave a review
  </BootstrapButton>
</>
}
{/*Display user reviews */}
[reviewsState?.map((reviewElement,
index) =>(
  <div key={index}>
    <Divider/>
    <Row
className={"justify-content-start align-items-center mt-2"}>
      <Col lg={3}
md="auto" sx={{padding: "0px"}}>
        <Avatar
src={reviewElement.photoURL} alt="photo"/>
      </Col>
      <Col lg={"auto"}
md="auto" sx={{paddingLeft: 0}} className={"justify-content-start
align-items-center"} >
        <Typography
sx={{margin: 0, paddingLeft: "8px"}}
paragraph>{reviewElement.displayName}</Typography>
        <Rating
{/*Display rating
stars*/}
        {
Array(5).fill(5).map((_, number) => (
<IconButton

```

```

key={number}

aria-label="star"

disabled

onClick={(event) => handleRate(number + 1, number + 1)}
    >
      {
        number < reviewElement.rating
          ? <Star sx={{color:"orange"}} fontSize={"small"}/>
          : <StarBorder sx={{color:"orange"}}  fontSize={"small"}/>
        }
      </IconButton>
    ))
  }
  </Col>
</Row>
<Typography
paragraph>{reviewElement.text} </Typography>
  </div>
  )))
  </CardContent>
  </Collapse>
  </>
}
</Card>
}
{ /*Snackbars*/ }
  <Snackbar open={openSuccessSnackbar}
autoHideDuration={6000} onClose={handleCloseSuccessSnackbar}>
  <Alert onClose={handleCloseSuccessSnackbar}
severity="success" sx={{ width: '100%' }}>
    Recipe successfully added to your cookbook !
  </Alert>
  </Snackbar>
</div>
);
}

```

```
export default Recipe;
```

## Recipe Logic JS File

```
/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import React, { useState, useEffect } from 'react';
//User Auth context
import {useUserAuth}
from
"../../context/UserAuthContext";
//Firebase
import {updateDoc, doc }
from "firebase/firestore";
import {database}
from "../../FirebaseConfig"
import {uploadFile}
from
"../../services/FirebaseServices";
//CSS
import "../../Discover/Discover.css";

//Recipe Logic Component
const RecipeLogic = ({title, calories, image, method, ingredients,
rating, reviews, uid, removeRecipe, updateRecipe, id}) => {
  const { user } = useUserAuth();

  const settings = ['Modify', 'Remove'];
  const [menu, setMenu] = useState(null);
  const [update, setUpdate] = useState(false);
  const [expanded, setExpanded] = useState(false);
  const [expandedReviews, setExpandedReviews] = useState(false);
  const [expandedUpdate, setExpandedUpdate] = useState(true);
  const [titleState, setTitleState] = useState(title);
  const [imageState, setImageState] = useState(image);
  const [methodState, setMethodState] = useState(method);
  const [ingredientsState, setIngredientsState] =
useState(ingredients);
  const [caloriesState, setCaloriesState] = useState(calories);
  const [ingredient, setIngredient] = useState("");
  const [imageFile, setImageFile] = useState(null);
  const [ratingState, setRatingState] = useState(rating);
```

```

const [review, setReview] = useState("");
const [reviewsState, setReviewsState] = useState(reviews);

//add an ingredient to the ingredients list with the plus button
const addIngredient = () => {
  if (ingredient !== "") {
    setIngredientsState(ingredientsState =>
[...ingredientsState, ingredient]);
    setIngredient("");
  }
}

//add an ingredient to the ingredients list with key enter
const handleKeyDownIngredient = (event) => {
  if (event.key === 'Enter') {
    addIngredient();
  }
}

//handle rating change with Firebase
const handleRate = (event, newValue) => {
  const recipeRef = doc(database, "recipes", id);
  updateDoc(recipeRef, {
    "rating": newValue
  }).then(() => {
    setRatingState(newValue);
  }).catch(error => {
    console.log(error);
  });
};

//handle rating change with Firebase
const sendReview = (event) => {
  event.preventDefault();
  if (review === "") {
    return;
  }
  const recipeRef = doc(database, "recipes", id);
  let reviewsArray = reviews ? reviews : [];
  reviewsArray.push({
    "text": review,
    "displayName": user.displayName,
    "photoURL": user.photoURL,
    "uid": user.uid,

```

```

        "rating": ratingState
    });
    updateDoc(recipeRef, {
        "reviews": reviewsArray
    }).then(() => {
        setReviewsState(reviewsArray);
        setReview("");
    }).catch(error => {
        console.log(error);
    });
};

//control accordion
const handleExpandClick = () => {
    setExpanded(!expanded);
};

//control accordion for reviews
const handleExpandClickReviews = () => {
    setExpandedReviews(!expandedReviews);
};

//control accordion for update Card
const handleExpandUpdateClick = () => {
    setExpandedUpdate(!expandedUpdate);
};

//delete an ingredient from the ingredients list
const deleteIngredient = (index) => {
    const newIngredients = [...ingredientsState];
    newIngredients.splice(index, 1);
    setIngredientsState(newIngredients);
}

//check if the recipe is valid
const checkRecipe = () => {
    if (titleState === "" || imageState ===
"https://caer.univ-amu.fr/wp-content/uploads/default-placeholder.png"
|| ingredientsState.length === 0 || caloriesState === "") {
        return false;
    }
    return true;
}
}

```

```

//upload an image to the Firebase storage
const uploadImage = (file) => {
  uploadFile(file).then(url => {
    setImageState(url);
  }).catch(error => {
    console.log(error);
  });
}

const updateCalories = e => {
  if(isNaN(e.target.value)) {
    return;
  }
  setCaloriesState(e.target.value);
}

const updateTitle = e => {
  setTitleState(e.target.value);
}

const updateImageFile = e => {
  if(e.target.files[0]) {
    setImageFile(e.target.files[0]);
    uploadImage(e.target.files[0])
  }
}

const updateMethod = e => {
  setMethodState(e.target.value);
}

const updateIngredient = e => {
  setIngredient(e.target.value);
}

const updateReview = e => {
  setReview(e.target.value);
}

const handleOpenMenu = (event) => {
  setMenu(event.currentTarget);
};

```



```

const handleCloseMenu = () => {
  setMenu(null);
};

const handleRemoveRecipe = (event) => {
  removeRecipe(event);
  handleCloseMenu();
};

const handleUpdateRecipe = (event) => {
  event.preventDefault();
  updateRecipe(event, {title: titleState, image: imageState,
method: methodState, calories: caloriesState, id}, ingredientsState);
  handleCloseMenu();
  // emptyFields();
  setUpdate(false);
};

return {
  menu,
  update,
  expanded,
  expandedReviews,
  expandedUpdate,
  titleState,
  imageState,
  methodState,
  ingredientsState,
  caloriesState,
  ingredient,
  imageFile,
  ratingState,
  review,
  reviewsState,
  uid,
  handleExpandClick,
  handleExpandClickReviews,
  handleExpandUpdateClick,
  deleteIngredient,
  checkRecipe,
  updateCalories,
  updateTitle,
  updateImageFile,
  updateMethod,

```

```

    updateIngredient,
    updateReview,
    handleOpenMenu,
    handleCloseMenu,
    handleRemoveRecipe,
    handleUpdateRecipe,
    sendReview,
    handleRate,
    user,
    settings
  }
}

export default RecipeLogic;

```

## Recipe Style JS File

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import {Button, CardContent, IconButton, InputBase} from
"@mui/material";
import {alpha, styled} from
"@mui/material/styles";
import React from "react";

export const ExpandMore = styled((props) => {
  const { expand, ...other } = props;
  return <IconButton {...other} />;
})
(({ theme, expand }) => ({
  transform: !expand ? 'rotate(0deg)' : 'rotate(180deg)',
  marginLeft: 'auto',
  transition: theme.transitions.create('transform', {
    duration: theme.transitions.duration.shortest,
  }),
})),
));

export const BootstrapInput = styled(InputBase)(({ theme }) => ({
  'label + &': {

```

```

    marginTop: theme.spacing(3),
  },
  '& .MuiInputBase-input': {
    borderRadius: 4,
    multiline: "true",
    position: 'relative',
    backgroundColor: theme.palette.mode === 'light' ? '#fcfcfb' :
'#2b2b2b',
    border: '1px solid #ced4da',
    fontSize: 16,
    width: '100%',
    padding: '10px 10px 10px 10px',
    margin: '5px 0px 5px 0px',
    transition: theme.transitions.create([
      'border-color',
      'background-color',
      'box-shadow',
    ]),
    // Use the system font instead of the default Roboto font.
    fontFamily: [
      '-apple-system',
      'BlinkMacSystemFont',
      '"Segoe UI"',
      'Roboto',
      '"Helvetica Neue"',
      'Arial',
      'sans-serif',
      '"Apple Color Emoji"',
      '"Segoe UI Emoji"',
      '"Segoe UI Symbol"',
    ].join(','),
    '&:focus': {
      //transparent for #FA4616
      boxShadow: `${alpha('#FA4616', 0.25)} 0 0 0 0.2rem`,
      borderColor: '#FA4616',
    },
  },
},
));

export const BootstrapButton = styled(Button) ({
  boxShadow: 'none',
  textTransform: 'none',
  fontSize: 16,
  padding: '6px 12px',

```

```

border: '1px solid #FA4616',
width: '100%',
lineHeight: 1.5,
color: "#1d1d1d",
backgroundColor: '#f5f5f5',
borderColor: `${alpha('#f5f5f5', 0.25)} 0 0 0 0.2rem`,
justifyContent: 'space-between',
fontFamily: [
  '-apple-system',
  'BlinkMacSystemFont',
  '"Segoe UI"',
  'Roboto',
  '"Helvetica Neue"',
  'Arial',
  'sans-serif',
  '"Apple Color Emoji"',
  '"Segoe UI Emoji"',
  '"Segoe UI Symbol"',
].join(', '),
'&:hover': {
  backgroundColor: '#f5f5f5',
  borderColor: `${alpha('#f5f5f5', 0.25)} 0 0 0 0.2rem`,
  boxShadow: 'none',
},
'&:active': {
  boxShadow: 'none',
  backgroundColor: '#f5f5f5',
  borderColor: `${alpha('#f5f5f5', 0.25)} 0 0 0 0.2rem`,
},
'&:focus': {
  boxShadow: `${alpha('#f5f5f5', 0.25)} 0 0 0 0.2rem`,
},
});

export const CardContentStyled = styled(CardContent) `
  padding: 0;
`;

export const CardStyles = {
  media: {
    paddingTop: '0',
    cursor: 'pointer',
    marginRight: "10px"
  },
},

```

```

card: {
  position: 'relative',
  justifyContent: 'center',
},
overlay: {
  backgroundColor: 'rgba(0,0,0,0.1)',
  position: 'absolute',
  top: '75%',
  left: '50%',
  transform: 'translate(-50%, -50%)',
  color: '#FA4616',
  cursor: 'pointer',
  padding: '2px',
  borderRadius: '50%'
}
};

```

## Recipes

### Recipes JS File

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

//MUI Icons
import {Add, Search}
from "@mui/icons-material";
//MUI Material
import {Alert, Card, CardActions, Collapse, IconButton, InputBase,
Paper, Snackbar,} from "@mui/material";
//React Material Styles
import React
from "react";
//React Bootstrap
import {Col, Container, Row}
from "react-bootstrap";
//CSS
import "../Discover/Discover.css";
//Header bar
import NavigationBar
from "../NavigationBar/NavigationBar";
import NewRecipeCard
from "../NewRecipeCard/NewRecipeCard";

```

```

import Recipe
from "../Recipe/Recipe";
import "../Recipes.css";
//Logic Import
import RecipesLogic
from "../RecipesLogic";
//Styles
import {CardStyles, BootstrapButton} from "../RecipesStyles";

//Recipes Component
const Recipes = () => {

  const {
    recipes,
    userCookbooks,
    search,
    updateSearch,
    removeRecipe,
    updateRecipe,
    openSuccessSnackbar,
    openModifySnackbar,
    openRemoveSnackbar,
    handleCloseSuccessSnackbar,
    handleCloseModifySnackbar,
    handleCloseRemoveSnackbar,
    addRecipe,
    expanded,
    handleExpandClick,
  } = RecipesLogic();

  return(
    <>
      { /*Header*/ }
      <Container className="mt-5">
        <Row>
          <NavigationBar/>
        </Row>
      </Container>

      <Container className="mt-4">
        <Row className={"justify-content-center w-100 mr-0"}>
          <Col className="mt-4" lg={5} mf={7} sm={7} >
            { /*Search Input*/ }
          </Col>
        </Row>
      </Container>
    </>
  )
}

```

```

        <Paper className="mb-4" component="form"
sx={{display: 'flex', alignItems: 'center', maxWidth: '100%' }} >
        <InputBase sx={{ ml: 1, flex: 1 }}
placeholder="Search recipe or ingredient" value={search ?? ""}
onChange={updateSearch} />
        <IconButton sx={{ p: '10px' }}
aria-label="search">
            <Search className="searchIcon"/>
        </IconButton>
    </Paper>
    {/*Add a new recipe button*/}
    <Card className="mb-4" sx={{ boxShadow:
'none'}} style={CardStyles.card}>
        <CardActions disableSpacing
sx={{justifyContent: "center", cursor: "pointer"}}
onClick={handleExpandClick}>
            <BootstrapButton
                variant="contained"
                disableElevation
                aria-expanded={expanded}
                aria-label="show more"
                endIcon={<Add />}
            >
                Add a new recipe
            </BootstrapButton>
        </CardActions>
        <Collapse in={expanded} timeout="auto"
unmountOnExit >
            <Row
className={"justify-content-center"}>
                <Col>
                    <NewRecipeCard
addRecipe={addRecipe} />
                </Col>
            </Row>
        </Collapse>
    </Card>
    {/*List of recipes*/}
    {recipes && recipes.map(recipeElement =>(
        <Recipe
            key={recipeElement.id}
            title={recipeElement.title}
            calories={recipeElement.calories}
            image={recipeElement.image}

```

```

                                method={recipeElement.method}

ingredients={recipeElement.ingredients.map(ingredient =>
ingredient.text) }

                                rating={recipeElement.rating}
                                reviews={recipeElement.reviews}
                                uid={recipeElement.uid}
                                id={recipeElement.id}
                                photoURL={recipeElement.photoURL}
                                displayName={recipeElement.displayName}
                                userCookbooks={userCookbooks}
                                removeRecipe={ (e) => removeRecipe(e,
recipeElement.id) }
                                updateRecipe={updateRecipe}
                                />
                            )))
                </Col>
            </Row>
        </Container>

        { /*Snackbars*/ }
        <Snackbar open={openSuccessSnackbar}
autoHideDuration={6000} onClose={handleCloseSuccessSnackbar}>
            <Alert onClose={handleCloseSuccessSnackbar}
severity="success" sx={{ width: '100%' }}>
                Recipe successfully added !
            </Alert>
        </Snackbar>
        <Snackbar open={openModifySnackbar} autoHideDuration={6000}
onClose={handleCloseModifySnackbar}>
            <Alert onClose={handleCloseModifySnackbar}
severity="success" sx={{ width: '100%' }}>
                Recipe successfully modified !
            </Alert>
        </Snackbar>
        <Snackbar open={openRemoveSnackbar} autoHideDuration={6000}
onClose={handleCloseRemoveSnackbar}>
            <Alert onClose={handleCloseRemoveSnackbar}
severity="success" sx={{ width: '100%' }}>
                Recipe successfully removed !
            </Alert>
        </Snackbar>
    </>

```



```
    );  
};  
  
export default Recipes;
```

## Recipes Logic JS File

```
/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import React, {useEffect, useState} from
"react";
//React Router
import {useNavigate} from
"react-router-dom";
//Firebase
import {database}
from "../..//FirebaseConfig";
import {addDoc, updateDoc, collection, deleteDoc, doc, getDocs, getDoc,
orderBy} from "firebase/firestore";
//CSS
import "../Discover/Discover.css";

//Recipes Logic
const RecipesLogic = () => {
  const navigate = useNavigate();

  const user = JSON.parse(sessionStorage.getItem("user"));
  //Accordion controller
  const [expanded, setExpanded] = useState(false);
  const [openSuccessSnackbar, setOpenSuccessSnackbar] =
useState(false);
  const [openModifySnackbar, setOpenModifySnackbar] =
useState(false);
  const [openRemoveSnackbar, setOpenRemoveSnackbar] =
useState(false);
  const [recipes, setRecipes ] = useState ([]);
  const [search, setSearch] = useState("");
  const [userCookbooks, setUserCookbooks] = useState([]);
  const [firstLoad, setFirstLoad] = useState(true);

  useEffect(async () =>{
    //If the user is not logged in, redirect to the login page
    //To handle the case where the user is not logged in and tries
to access the page
    if(!user){
      navigate("/");
    } else {
```

```

    await getRecipes();
    if(search !== ""){
        filterRecipes();
    } else {
        if (firstLoad) {
            setFirstLoad(false);
        } else {
            window.location.reload();
        }
    }
    await getUserCookbooks();
    if (sessionStorage.getItem("added")) {
        setOpenSuccessSnackbar(true);
        sessionStorage.removeItem("added");
    }
}
}, [search]);

//Fetching random recipes from Firebase database
const getRecipes = async () => {
    const querySnapshot = await getDocs(collection(database,
"recipes"));

    querySnapshot.forEach((doc) => {
        let newRecipe = doc.data();
        //if the id of a recipe is not already in the array, add
the recipe
        newRecipe.id = doc.id;
        if(!recipes.some(recipe => recipe.id === newRecipe.id)){
            setRecipes(recipes => [...recipes, newRecipe]);
        } else {
            //if the id of a recipe is already in the array, update
the recipe
            const index = recipes.findIndex(recipe => recipe.id ===
newRecipe.id);
            const newRecipes = [...recipes];
            newRecipes[index] = newRecipe;
            setRecipes(newRecipes);
        }
    });
}

//Get the user's cookbooks from Firebase database

```

```

const getUserCookbooks = async () => {
  const querySnapshot = await getDocs(collection(database,
"users/" + user?.uid + "/cookbooks"));
  querySnapshot.forEach((doc) => {
    let newCookbook = doc.data();
    newCookbook.id = doc.id;
    if(!userCookbooks.some(cookbook => cookbook.id ===
newCookbook.id)){
      setUserCookbooks(cookbooks => [...cookbooks,
newCookbook]);
    } else {
      let newUserCookBooks = userCookbooks;
      const index = newUserCookBooks.findIndex(cookbook =>
cookbook.id === newCookbook.id);
      newUserCookBooks[index] = newCookbook;
      setUserCookbooks(newUserCookBooks);
    }
  });
}

//Filter recipes by title and ingredients
const filterRecipes = () => {
  getRecipes().then(() => {
    const filteredRecipesByTitle = recipes.filter(recipe =>
recipe?.title.toLowerCase().includes(search.toLowerCase()));
    const filteredRecipesByIngredients = recipes.filter(recipe
=> recipe?.ingredients.some(ingredient =>
ingredient.text.toLowerCase().includes(search.toLowerCase())));
    //merge the two arrays without same id
    const filteredRecipes = [...filteredRecipesByTitle,
...filteredRecipesByIngredients].filter((recipe, index, self) =>
      index === self.findIndex((t) => (
        t.id === recipe.id
      ))
    );
    setRecipes(filteredRecipes);
  })
}

//add recipe to Firebase database
const addRecipe = async (event, recipe, ingredients) => {
  //Get user ref
  const userRef = doc(database, "users/" + user?.uid);
  const userSnapshot = await getDoc(userRef);

```

```

const userData = userSnapshot.data();
const displayName = userData.displayName;
event.preventDefault();
recipe.ingredients = [];
recipe.uid = user.uid;
recipe.displayName = displayName;
if (user.photoURL) recipe.photoURL = user.photoURL;
ingredients.map(ingredient => {
  recipe.ingredients.push({text: ingredient});
});
addDoc(collection(database, "recipes"), recipe).then(() => {
  //add recipe to recipes
  setOpenSuccessSnackbar(true);
  setExpanded(false);
  sessionStorage.setItem("added", true);
  window.location.reload();
}).catch(() => {
  console.log("Error adding recipe");
});
}

//remove recipes by ID from Firebase database
const removeRecipe = async (e, id) => {
  e.preventDefault();
  deleteDoc(doc(database, "recipes", id))
    .then(() => {
      //remove recipe from recipes
      setRecipes(recipes => recipes.filter(recipe =>
recipe.id !== id));
      setOpenRemoveSnackbar(true);
    }).catch(() => {
      console.log("Error removing recipe");
    });
}

//update recipe in Firebase database
const updateRecipe = async (e, recipe, ingredients) => {
  e.preventDefault();
  recipe.ingredients = [];
  ingredients.map(ingredient => {
    recipe.ingredients.push({text: ingredient});
  });
}

```

```

        updateDoc(doc(database, "recipes", recipe.id), recipe).then(()
=> {
            getRecipes();
            setOpenModifySnackBar(true);
        }).catch(() => {
            console.log("Error updating recipe");
        });
    }

    const handleExpandClick = () => {
        setExpanded(!expanded);
    };

    const handleOpenSuccessSnackBar = () => {
        setOpenSuccessSnackBar(true);
    };

    const handleCloseSuccessSnackBar = () => {
        setOpenSuccessSnackBar(false);
    };

    const handleOpenModifySnackBar = () => {
        setOpenModifySnackBar(true);
    };

    const handleCloseModifySnackBar = () => {
        setOpenModifySnackBar(false);
    };

    const handleOpenRemoveSnackBar = () => {
        setOpenRemoveSnackBar(true);
    };

    const handleCloseRemoveSnackBar = () => {
        setOpenRemoveSnackBar(false);
    };

    const updateSearch = e => {
        setSearch(e.target.value);
    }

    const getSearch = (e) => {
        e.preventDefault();
    }

```

```

return {
  recipes,
  userCookbooks,
  search,
  updateSearch,
  addRecipe,
  removeRecipe,
  updateRecipe,
  openSuccessSnackbar,
  openModifySnackbar,
  openRemoveSnackbar,
  handleCloseSuccessSnackbar,
  handleOpenSuccessSnackbar,
  handleCloseModifySnackbar,
  handleOpenModifySnackbar,
  handleCloseRemoveSnackbar,
  handleOpenRemoveSnackbar,
  expanded,
  handleExpandClick
}
};

export default RecipesLogic;

```

## Recipes Styles JS File

```

import {Button} from "@mui/material";
import {alpha, styled} from "@mui/material/styles";

export const BootstrapButton = styled(Button)({
  boxShadow: 'none',
  textTransform: 'none',
  fontSize: 16,
  padding: '6px 12px',
  border: '1px solid',
  lineHeight: 1.5,
  backgroundColor: '#FA4616',
  borderColor: `alpha('#FA4616', 0.25) 0 0 0 0.2rem`,
  justifyContent: 'space-around',
  fontFamily: [
    '-apple-system',
    'BlinkMacSystemFont',
    '"Segoe UI"',

```

```

    'Roboto',
    '"Helvetica Neue"',
    'Arial',
    'sans-serif',
    '"Apple Color Emoji"',
    '"Segoe UI Emoji"',
    '"Segoe UI Symbol"',
  ].join(', '),
  '&:hover': {
    backgroundColor: '#FA4616',
    borderColor: `${alpha('#FA4616', 0.25)} 0 0 0 0.2rem`,
    boxShadow: 'none',
  },
  '&:active': {
    boxShadow: 'none',
    backgroundColor: '#FA4616',
    borderColor: `${alpha('#FA4616', 0.25)} 0 0 0 0.2rem`,
  },
  '&:focus': {
    boxShadow: `${alpha('#FA4616', 0.25)} 0 0 0 0.2rem`,
  },
});

export const CardStyles = {
  media: {
    padding: '0',
    cursor: 'pointer',
  },
  card: {
    position: 'relative',
    justifyContent: 'center',
  },
  overlay: {
    backgroundColor: 'rgba(0,0,0,0.1)',
    position: 'absolute',
    top: '75%',
    left: '50%',
    transform: 'translate(-50%, -50%)',
    color: '#FA4616',
    cursor: 'pointer',
    padding: '2px',
    borderRadius: '50%'
  }
}

```



```
};
```

## Recipes CSS File

```
/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

.input-100 {
  width: 100% !important;
}

.upload-icon:hover {
  margin: 1px;
}

.recipe-input {
  margin-bottom: 5px;
}

.bg-grey {
  background-color: #f5f5f5;
}
```

## Sign Up

```
/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import {sendEmailVerification} from
"firebase/auth";
import React, { useState } from
"react";
import { Container, Col, Row, Button, Form, Image, Alert } from
"react-bootstrap";
import { Link, useNavigate } from
"react-router-dom";
import '../Login/Login.css';
import "bootstrap/dist/css/bootstrap.css";
import "../Custom.scss";
```

```

import { useUserAuth } from
"../../context/UserAuthContext";

const Signup = () => {
  const [email, setEmail] = useState("");
  const [firstname, setFirstname] = useState("");
  const [surname, setSurname] = useState("");
  const [password, setPassword] = useState("");
  const [error, setError] = useState("");
  const [success, setSuccess] = useState("");
  const {signUp} = useUserAuth();

  const navigate = useNavigate();

  //error handling
  const handleSubmit = async (e) => {
    e.preventDefault();
    setError("");

    if (!email || !password || !firstname || !surname) {
      setError("Please fill all the fields");
      return;
    }

    try {
      await signUp(email, password, firstname, surname);
      setSuccess("Check your email to verify your account");
    } catch (error) {
      switch (error.code) {
        case "auth/email-already-in-use":
          setError("Email already in use");
          break;
        case "auth/invalid-email":
          setError("Invalid email");
          break;
        case "auth/weak-password":
          setError("Password is too weak");
          break;
        default:
          setError("An error occurred");
      }
    }
  };
};

```

```

    }

    return (
      <>
        <Container className="mt-5">
          <Row>
            <Col lg={12} md={12} sm={12}>
              </img>
            </Col>
          </Row>
          <Row>
            <Col lg={3} mf={3} sm={0}></Col>
            <Col lg={6} mf={6} sm={12}>

              {error && <Alert variant="danger">{ error
}</Alert>}

              {success && <Alert variant="success">{ success
}</Alert>}

              <Form onSubmit={handleSubmit}>
                <Form.Group className="mb-3"
controlId="formBasicEmail">
                  <Form.Label>Email address</Form.Label>
                  <Form.Control type="email"
placeholder="Enter email" onChange={(e) => setEmail(e.target.value)}
required />
                  <Form.Text className="text-muted">
We'll never share your email with anyone else.</Form.Text>
                </Form.Group>

                <Form.Group className="mb-3"
controlId="formBasicFirstname">
                  <Form.Label>Firstname</Form.Label>
                  <Form.Control type="text"
placeholder="Enter firstname" onChange={(e) =>
setFirstname(e.target.value)} required/>
                  <Form.Text className="text-muted">
We'll never share your firstname with anyone else.</Form.Text>
                </Form.Group>

                <Form.Group className="mb-3"
controlId="formBasicSurname">
                  <Form.Label>Surname</Form.Label>

```

```

        <Form.Control type="text"
placeholder="Enter surname" onChange={ (e) =>
setSurname(e.target.value)} required/>
        <Form.Text className="text-muted">
We'll never share your surname with anyone else.</Form.Text>
    </Form.Group>

    <Form.Group className="mb-3"
controlId="formBasicPassword">
        <Form.Label>Password</Form.Label>
        <Form.Control type="password"
placeholder="Password" onChange= { (e) => setPassword(e.target.value)}
required/>
    </Form.Group>

    <div className="d-grid">
        <Button className="text-light"
variant="primary" type="submit">Sign up</Button>
    </div>
</Form>

<div className="mt-2">
    <small >Already have an account? <Link
to="/" className="forgotPass">Login</Link></small>
</div>
</Col>

</Row>

</Container>
</>
)
}

export default Signup;

```

## Context

### User Authentication Context

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022

```

```

*/

import { doc, setDoc, updateDoc } from
"firebase/firestore";
import { createContext, useContext, useEffect, useState } from "react";
import {
  createUserWithEmailAndPassword,
  signInWithEmailAndPassword,
  signOut,
  onAuthStateChanged,
  GoogleAuthProvider,
  signInWithPopup,
  sendPasswordResetEmail,
  sendEmailVerification,
  updateProfile
} from "firebase/auth";
import { auth, database } from "../FirebaseConfig";

const userAuthContext = createContext(null);

//this function is used to authenticate the user
export function UserAuthContextProvider({ children }) {
  const [user, setUser] = useState(null);

  // "auth" is from FirebaseConfig.js
  function login(email, password) {
    return signInWithEmailAndPassword(auth, email,
password).then(user => {
      if (!auth.currentUser.emailVerified) {
        const error = {
          code: "auth/email-not-verified",
          message: "Please verify your email address before
logging in."
        };
        return Promise.reject(error);
      } else {
        return auth.currentUser;
      }
    });
  }

  // "auth" is from FirebaseConfig.js
  function signUp(email, password, firstname, surname) {

```

```

        return createUserWithEmailAndPassword(auth, email,
password).then( async (user) => {
            const userRef = doc(database, "users", user.user.uid);
            return setDoc(userRef, {
                uid: user.user.uid,
                displayName: firstname + " " + surname,
                email: user.user.email,
                photoURL: user.user.photoURL,
                createdAt: new Date().getTime()
            }, {merge: true}).then(() => {
                return sendEmailVerification(auth.currentUser)
                    .then(() => {
                        return updateProfile(auth.currentUser, {
                            displayName: firstname + " " + surname,
                        })
                    }).catch(error => {
                        return error;
                    });
            });
        });
    });
}

function logOut(){
    setUser(null);
    sessionStorage.clear();
    return signOut(auth); //"auth" is from FirebaseConfig.js
}

function googleSignIn(){
    const googleAuthProvider = new GoogleAuthProvider();
    return signInWithPopup(auth, googleAuthProvider).then(user => {
        //Get firstname and surname from google
        const userRef = doc(database, "users", user.user.uid);
        return setDoc(userRef, {
            uid: user.user.uid,
            displayName: user.user.displayName,
            email: user.user.email,
            photoURL: user.user.photoURL,
            createdAt: new Date().getTime()
        }, {merge: true});
    });
}

function passwordReset(email){

```

```

        return sendPasswordResetEmail(auth, email);
    }

    //this function notifies when a user is created or a user has
    logged in. Function runs only once.
    useEffect(() => {
        const unsubscribe = onAuthStateChanged(auth, (currentUser) => {
            if(currentUser) {
                sessionStorage.setItem("user",
JSON.stringify(currentUser));
                setUser(currentUser);
            }
        });

        //Clean up
        return () => {
            unsubscribe();
        };
    }, []);

    return(
        <userAuthContext.Provider value={{user, signUp, logIn, logOut,
googleSignIn, passwordReset, sendEmailVerification}}>
            {children}
        </userAuthContext.Provider>
    );
}

export function useUserAuth(){
    return useContext(userAuthContext);
}

```

## App JS

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

import { Container, Row, Col } from "react-bootstrap";
import { Routes, Route } from "react-router-dom";

```

```

import { UserAuthContextProvider } from "../context/UserAuthContext";
import Login from "../components/Login/Login";
import Signup from "../components/SignUp/Signup";
import Discover from
"./components/Discover/Discover";
import ForgotPass from
"./components/ForgotPass/ForgotPass";
import ProtectedRoute from
"./components/ProtectedRoute/ProtectedRoute";
import Recipes from "../components/Recipes/Recipes";
import MyRecipes from
"./components/MyRecipes/MyRecipes";
import MyCookbooks from "../components/MyCookbooks/MyCookbooks";
import Messages from "../components/Messages/Messages";
import Profile from "../components/Profile/Profile";

import "../App.css";

function App() {

  return (
    <Container>
      <Row>
        <Col>
          <UserAuthContextProvider>
            <Routes>
              <Route path="/" exact element={ <Login />
} />
              <Route path="/signup" element={ <Signup />
} />
              <Route path="/forgotpass" element={
<ForgotPass /> } />
              <Route path="/discover" element={
<ProtectedRoute> <Discover /> </ProtectedRoute> } />
              <Route path="/recipes" element={
<ProtectedRoute> <Recipes /> </ProtectedRoute> } />
              <Route path="/myCookbooks" element={
<ProtectedRoute> <MyCookbooks /> </ProtectedRoute> } />
              <Route path="/myRecipes" element={
<ProtectedRoute> <MyRecipes /> </ProtectedRoute> } />
              <Route path="/messages" element={
<ProtectedRoute> <Messages /> </ProtectedRoute> } />
              <Route path="/profile" element={
<ProtectedRoute> <Profile /> </ProtectedRoute> } />

```



```

        </Routes>
        </UserAuthProvider>
      </Col>
    </Row>
  </Container>
);
}

export default App;

```

## Firestore Configuration

```

/**
 * @author Fillipe Soares
 * @StartDate 18/01/2022
 */

// Import the functions you need from the SDKs you need
import { initializeApp } from "firebase/app";
import { getAnalytics } from "firebase/analytics";
import { getAuth } from "firebase/auth";
import { getFirestore } from "firebase/firestore";
import { getMessaging } from "firebase/messaging";

//Firebase configuration
const firebaseConfig = {
  apiKey: "AIzaSyCLbnhSZXk1PGVBniz0FBxcItuAQnat6u0",
  authDomain: "lifereceitas-1f6c1.firebaseio.com",
  projectId: "lifereceitas-1f6c1",
  storageBucket: "lifereceitas-1f6c1.appspot.com",
  messagingSenderId: "854861200208",
  appId: "1:854861200208:web:d55e6d271490b378ee4a55",
  measurementId: "G-WW0D58E38C"
};

// Initialize Firebase
const app = initializeApp(firebaseConfig);
const auth = getAuth(app);
const analytics = getAnalytics(app);
const database = getFirestore(app);
const messaging = getMessaging(app);

```

```
export { auth, database, messaging };

export default app;
```

## Manifest JSON

```
{
  "name": "LifeReceitas",
  "short_name": "LifeReceitas",
  "theme_color": "#fa4616",
  "background_color": "#ffffff",
  "display": "standalone",
  "scope": "/",
  "start_url": "/",
  "icons": [
    {
      "src": "maskable_icon.png",
      "sizes": "196x196",
      "type": "image/png",
      "purpose": "any maskable"
    },
    {
      "src": "logo192.png",
      "sizes": "192x192",
      "type": "image/png"
    },
    {
      "src": "logo256.png",
      "sizes": "256x256",
      "type": "image/png"
    },
    {
      "src": "logo384.png",
      "sizes": "384x384",
      "type": "image/png"
    },
    {
      "src": "logo516.png",
      "sizes": "516x516",
      "type": "image/png"
    }
  ]
}
```

# Database Layout

## Recipes Layout

The screenshot displays the Firebase console interface for a database. The breadcrumb path is `home > recipes > acEGG0co4who...`. The interface is divided into three main sections:

- Left Pane:** Shows the database structure. The root collection is `lifereceitas-1f6c1`. Underneath, there is a `recipes` collection. The `recipes` collection is expanded, showing sub-collections `rooms` and `users`.
- Middle Pane:** Shows the selected document. The document ID is `acEGG0co4whofcU0B9yB`. It includes a `+ Add document` button.
- Right Pane:** Shows the document's data. It includes a `+ Start collection` button and a `+ Add field` button. The document contains the following fields:
  - `calories`: "700"
  - `displayName`: "fillipe so"
  - `image`: "https://firebasestorage.googleapis.com/v0/b/lifereceitas-1f6c1.appspot.com/o/images%2FClassic-Banoffee-Pie-sliced.png?alt=media&token=09f0c6ed-3561-48d5-a3c8-7ae189ac37c6"
  - `ingredients`: An array of 4 items:
    - 0: "Butter, melted 100g"
    - 1: "Light digestive biscuits, crushed 225g"
    - 2: "Butter 75g"
    - 3: "Dark brown soft sugar 75g"
    - 4: "Carnation Condensed Milk 207g"

# Messages Layout

Home > rooms > n3UPbJBrDcfK...

<p>lifereceitas-1f6c1</p> <p>+ Start collection</p> <ul style="list-style-type: none"> <li>recipes</li> <li><b>rooms</b></li> <li>users</li> </ul>	<p>rooms</p> <p>+ Add document</p> <p>n3UPbJBrDcfKH5qHjKJ</p>	<p>n3UPbJBrDcfKH5qHjKJ</p> <p>+ Start collection</p> <p>messages</p> <p>+ Add field</p> <p>0ZiugjtjXna8FPMRo0Wv1bzeubU2: 0</p> <p>ILpBw1adAqPFsJYISKZG5SIk72g2: 0</p> <p>members</p> <ul style="list-style-type: none"> <li>0ZiugjtjXna8FPMRo0Wv1bzeubU2: true</li> <li>ILpBw1adAqPFsJYISKZG5SIk72g2: true</li> </ul>
--	---	---

Home > rooms > n3UPbJBrDcfK... > messages

<p>rooms</p> <p>+ Add document</p> <p>n3UPbJBrDcfKH5qHjKJ</p>	<p>n3UPbJBrDcfKH5qHjKJ</p> <p>+ Start collection</p> <p>messages</p> <p>+ Add field</p> <p>0ZiugjtjXna8FPMRo0Wv1bzeubU2: 0</p> <p>ILpBw1adAqPFsJYISKZG5SIk72g2: 0</p> <p>members</p> <ul style="list-style-type: none"> <li>0ZiugjtjXna8FPMRo0Wv1bzeubU2: true</li> <li>ILpBw1adAqPFsJYISKZG5SIk72g2: true</li> </ul>	<p>messages</p> <p>+ Add document</p> <p>FNKsmDcnmL93cSM0AQGu</p> <p>hg91FYvfYfCSbxQ8Eh5f</p>
---	---	---

## User Details Layout

The screenshot shows the Firebase console interface. The breadcrumb path is 'users > ILpBw1adAqPF...'. The left sidebar shows a collection named 'users' selected. The main area displays the details for a document with ID 'ILpBw1adAqPFsJYISKZG5Sik72g2'. The document data is as follows:

```
createdAt: 1650736677948
displayName: "Fillipe Soares"
email: "fillipeb.boy@hotmail.com"
photoURL: "https://firebasestorage.googleapis.com/v0/b/lifereceitas-1f6c1.appspot.com/o/images%2FDSC_0107.jpg?alt=media&token=a01f94fb-09a2-42e5-b68f-b3c5722e9165"
uid: "ILpBw1adAqPFsJYISKZG5Sik72g2"
unreadMessages: false
```

## Firestore Rules

```
1 rules_version = '2';
2 service cloud.firestore {
3   match /databases/{database}/documents {
4     match /{document=**} {
5       allow read;
6       allow write: if request.auth != null;
7     }
8   }
9 }
```