

Gamesino Design Document



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Abstract

The purpose of this project is to develop an e-commerce application that will allow users to buy/ play online games on windows and mobile phones and to allow for the safe gambling of funds on the application. Games that are purchased within gamesino are browser and executable games.

This online games platform will work as a platform where users will be able to play games, purchase games securely.

This new platform will also allow users to see their winnings from their games and their claims from their winnings.

System Architecture

For this project, this is the following architecture implemented for this project. Gamesino is an application that is made with ASP.Net Core MVC design pattern and it's database and the website is hosted on Microsoft's Azure. The MVC design pattern uses Azure database to request and send data to the models, views and controllers.

The model only has database data, it has no relevant data information for the user.

The view is responsible for rendering content for the user to see. Views have minimum logic and shouldnt hold large chunks of data.

The controller is responsible for working with the views and models when a interaction has been made on the application. Given its name it controllers the project as this is the start point and picks what models and views to work with based on what content you are seeing.

The views use Bootstrap to keep the styling simple and sleek for the design of the application.

The API that is used is Microsoft Identity which is an APi that handles Login, register, forgot password functionality etc. Users can make an account with login information store in identity or an external login provider.

The code that was made for this project is stored in github. This is to help keep track of recent code pushes and to allow for regular updates for each iteration.

Sequence Diagrams

Register System Sequence Diagram

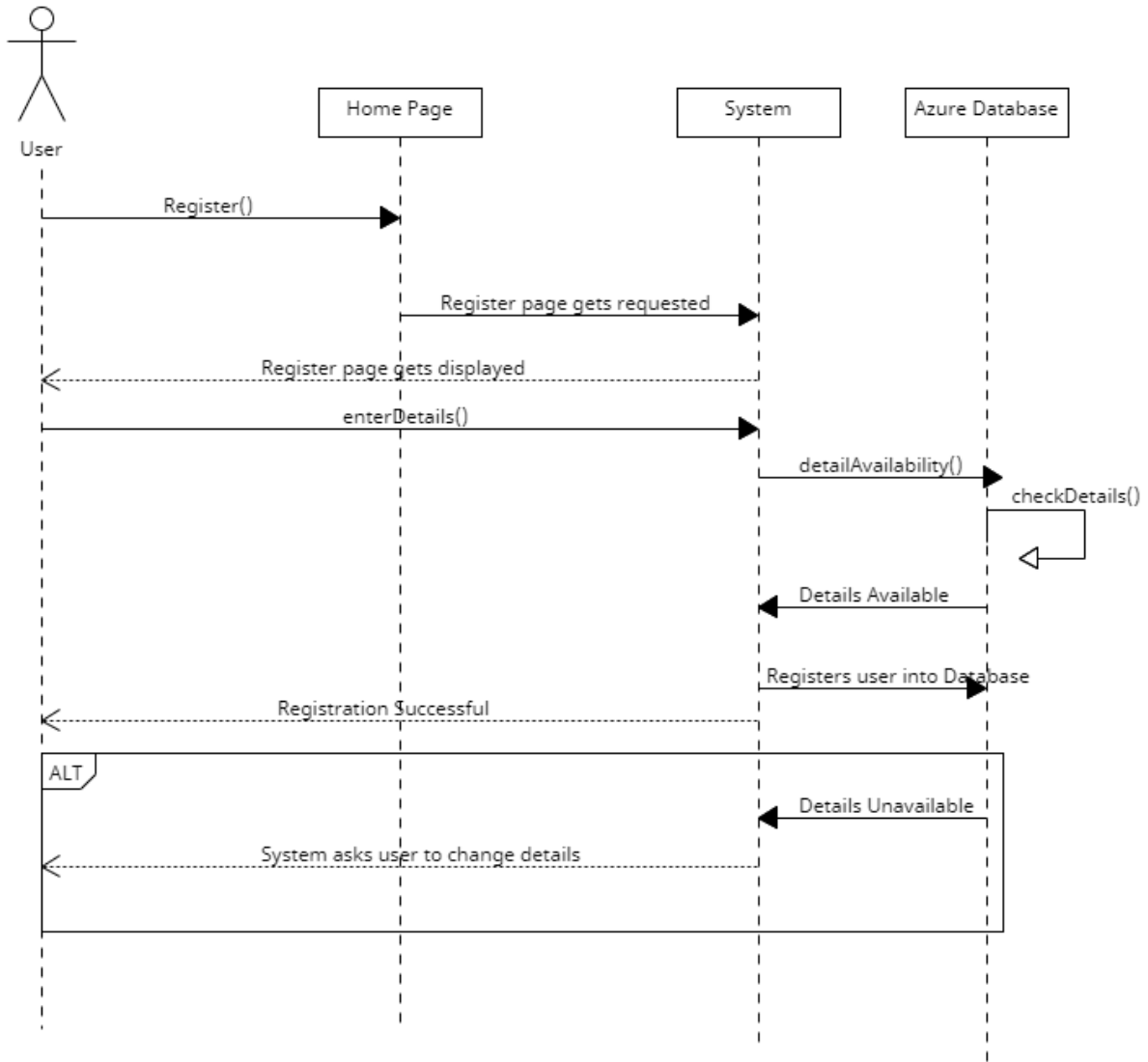


Figure 1: Register Sequence Diagram

Login System Sequence Diagram

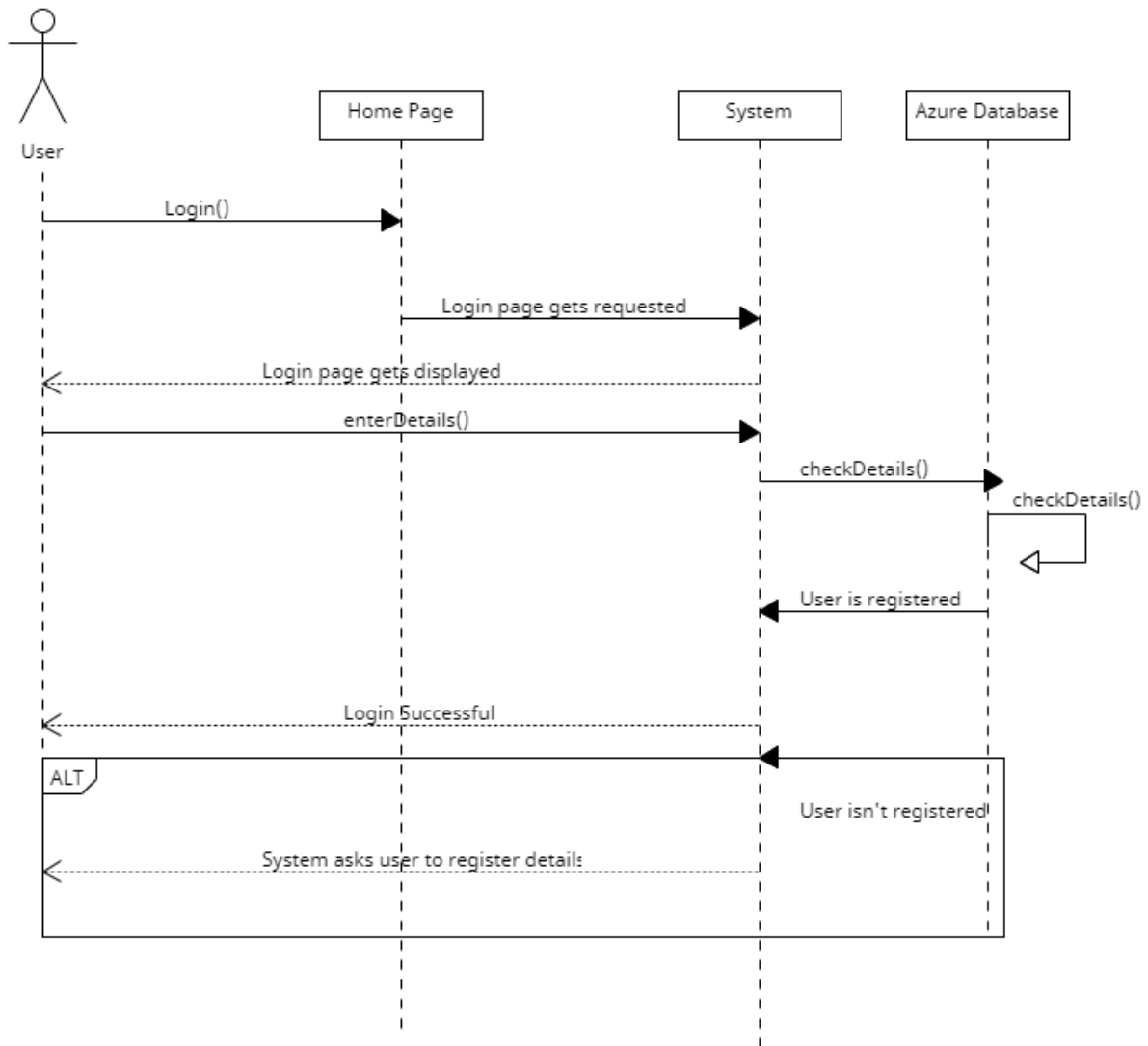


Figure 2: Login Sequence Diagram

Logout System Sequence Diagram

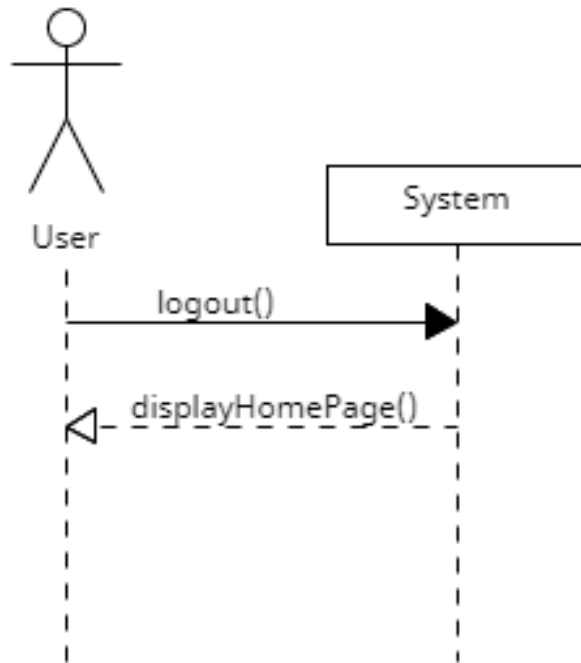


Figure 3: Logout Sequence Diagram

Payment System Sequence

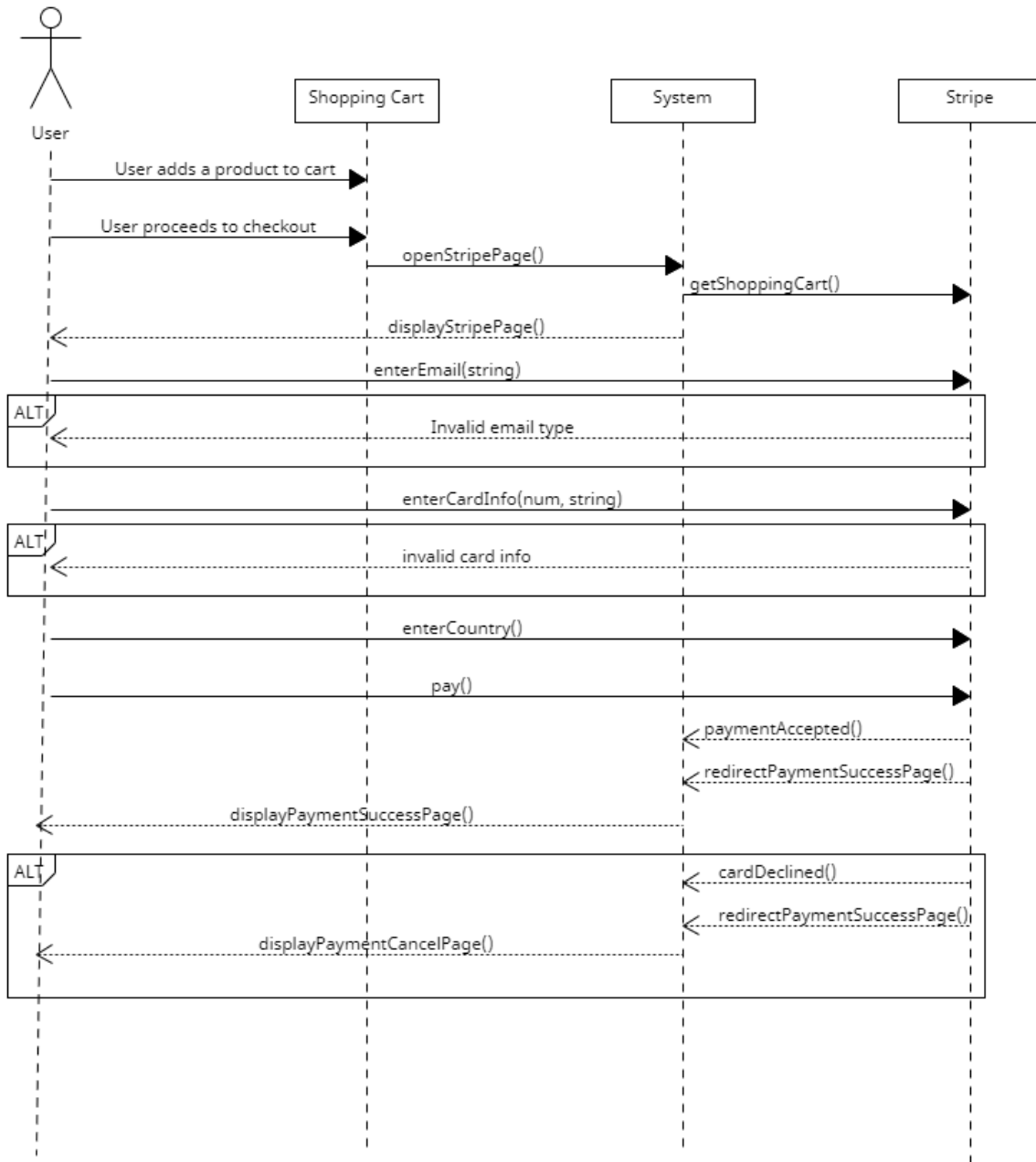


Figure 4: Payment Sequence Diagram

Order History System Sequence

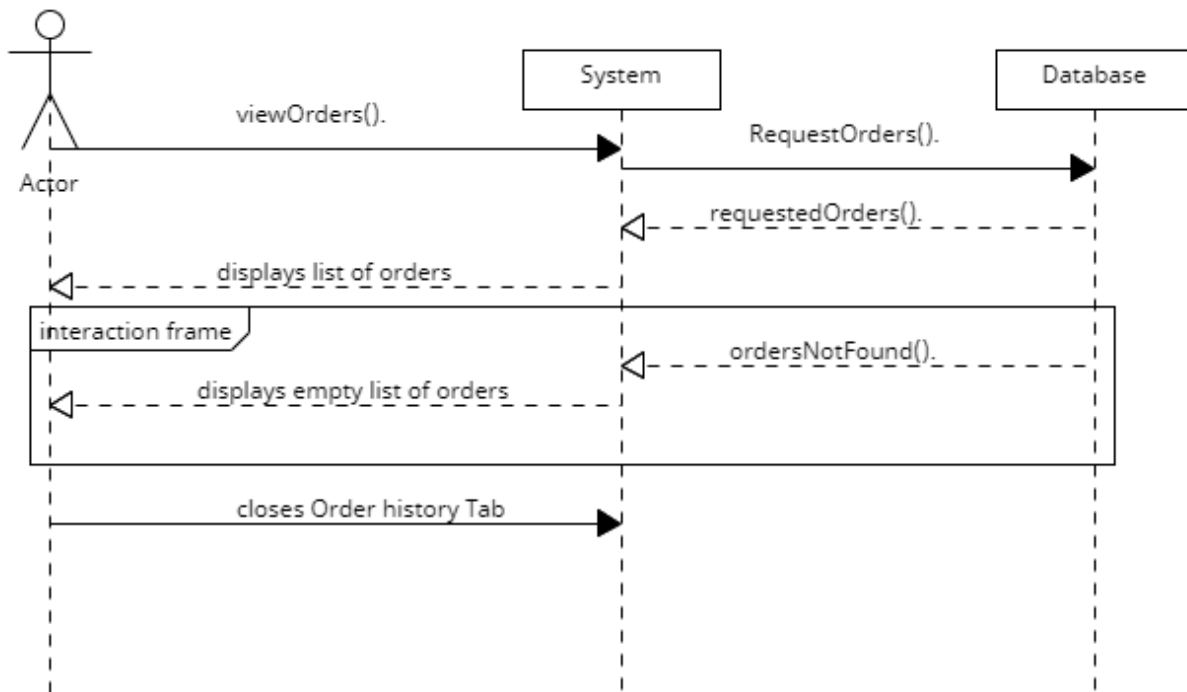


Figure 5: Order History Sequence Diagram

Play Casino Game System Sequence

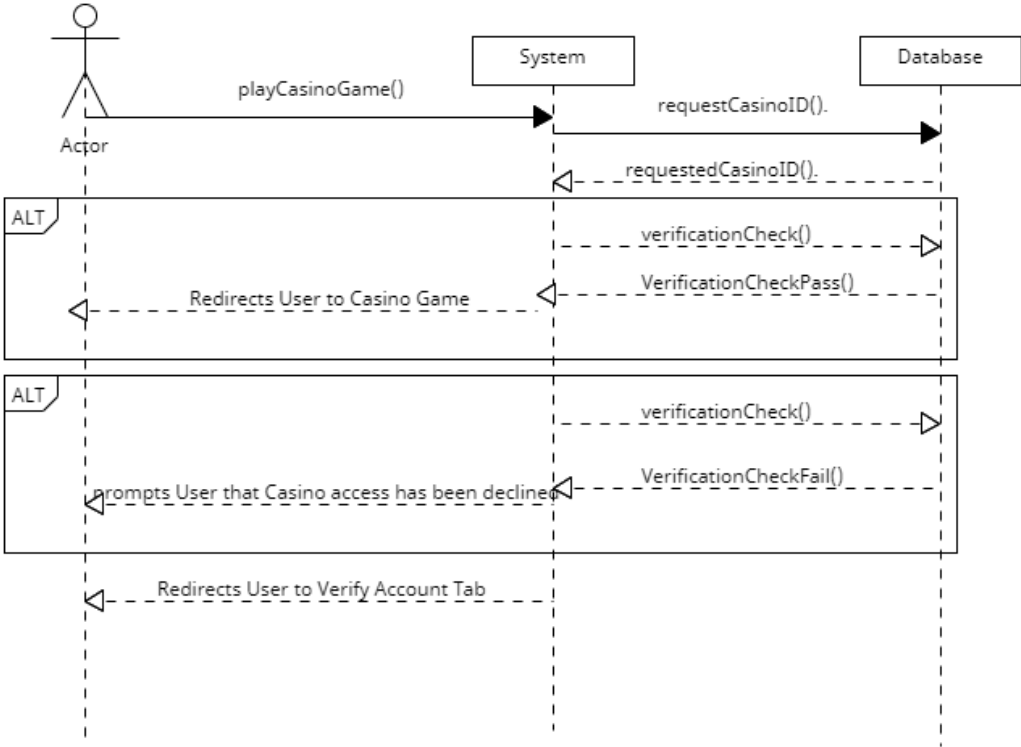


Figure 6: Play Casino Game Sequence Diagram

Application Prototype

REGISTER
Create A New Account

name@example.com
Email

Password
Password

Confirm password
Confirm Password

[Forgot password?](#)

Register

Have an Account? [Log In](#)

Figure 7: Register Page

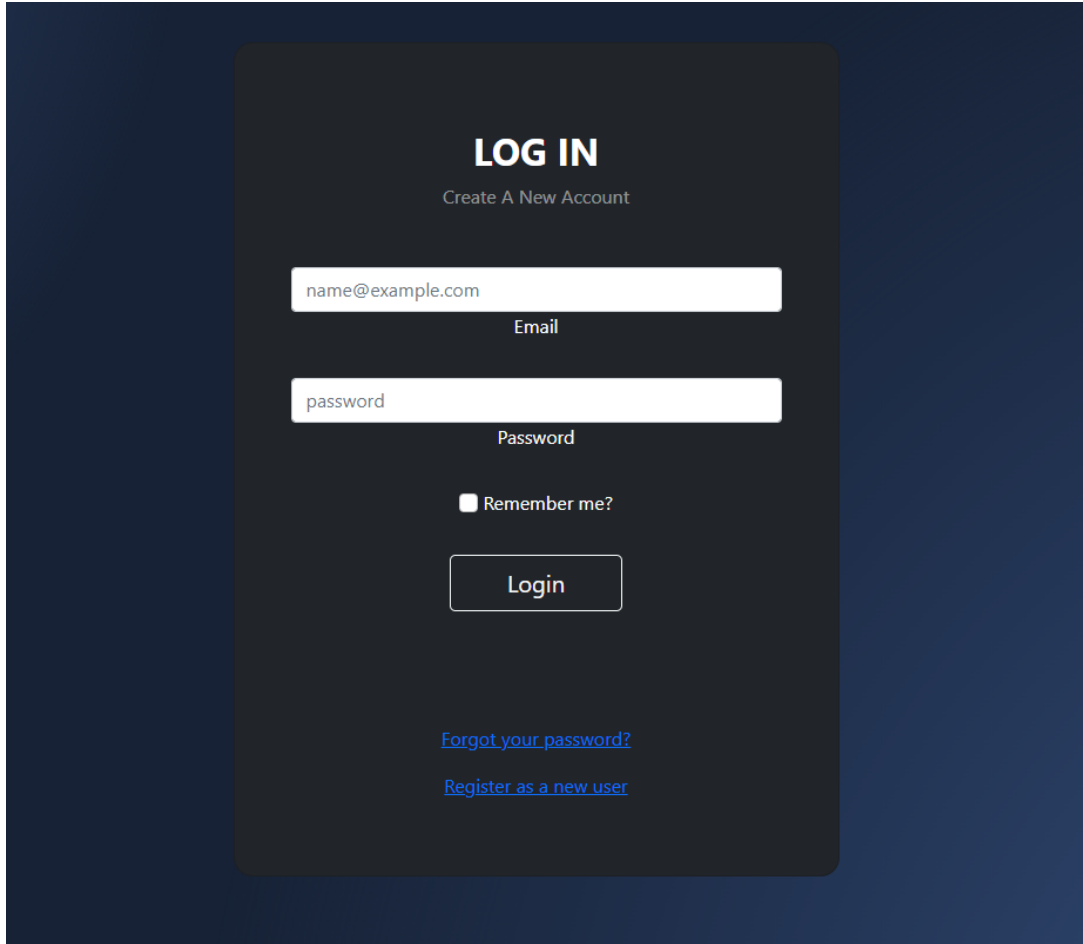


Figure 8: Login Page

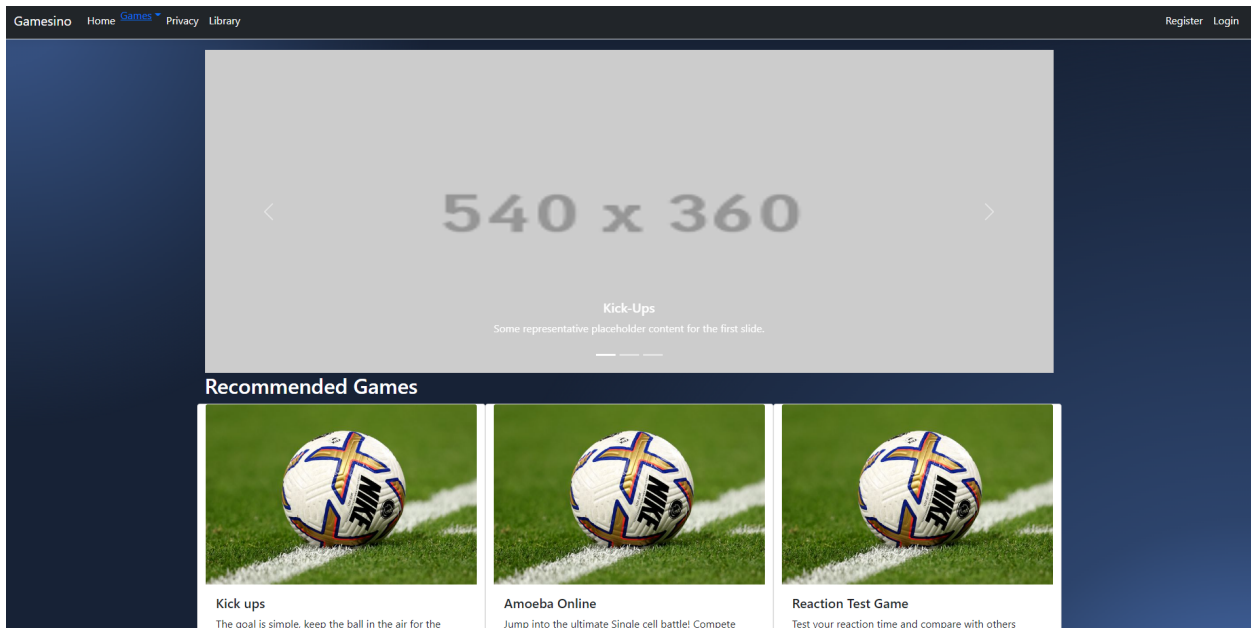


Figure 9: Home Page

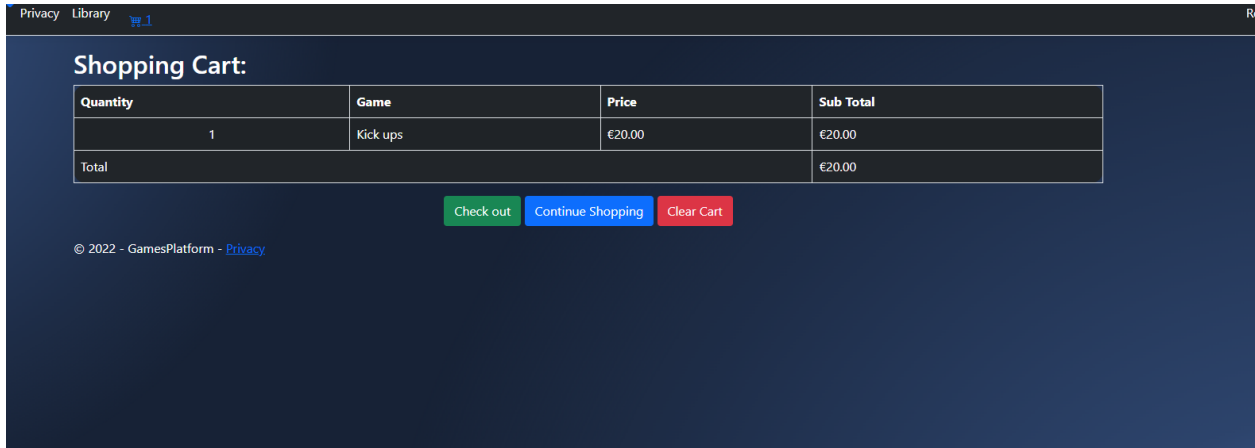


Figure 10: Shopping Cart

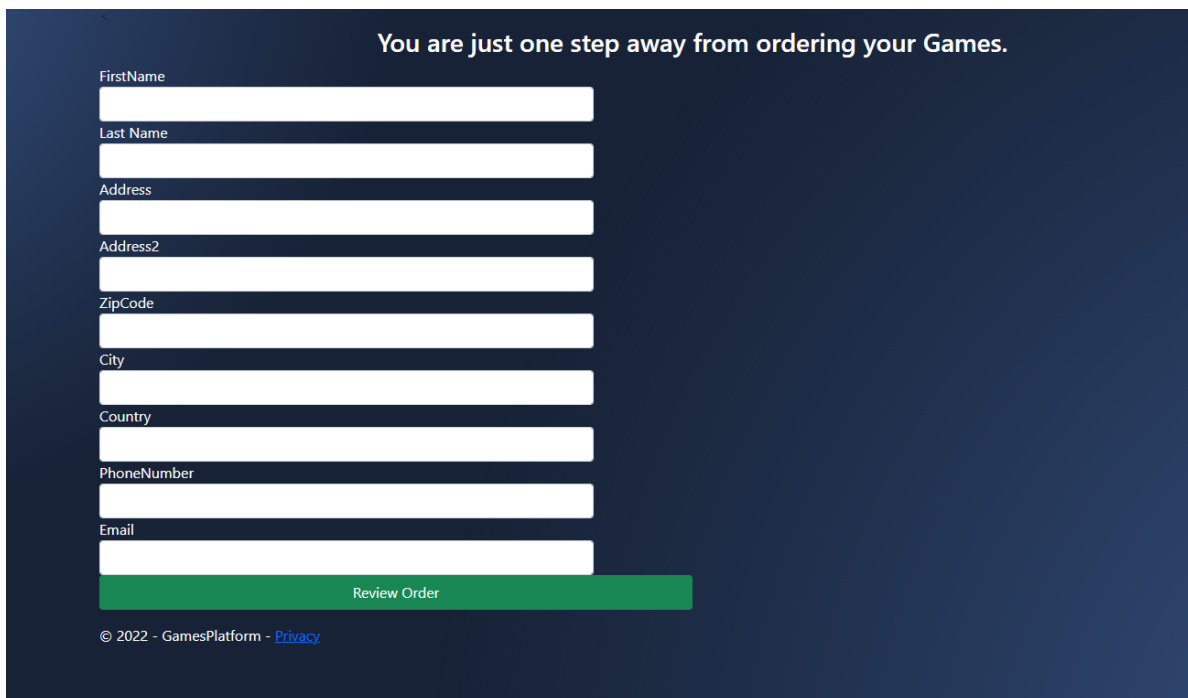


Figure 11: Checkout Page

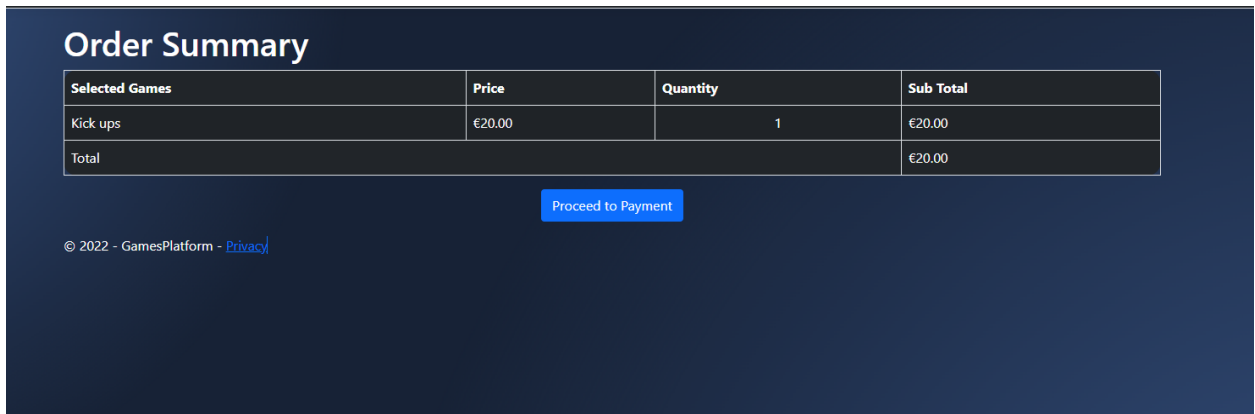


Figure 12: Order Summary Page

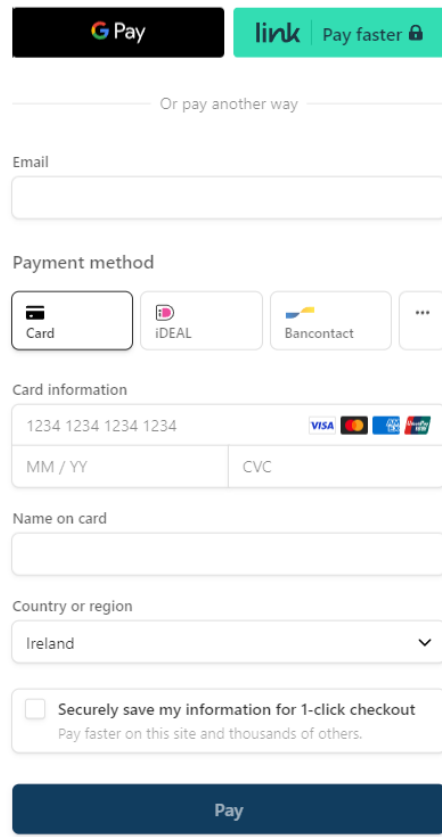


Figure 13: Stripe Hosted payment page

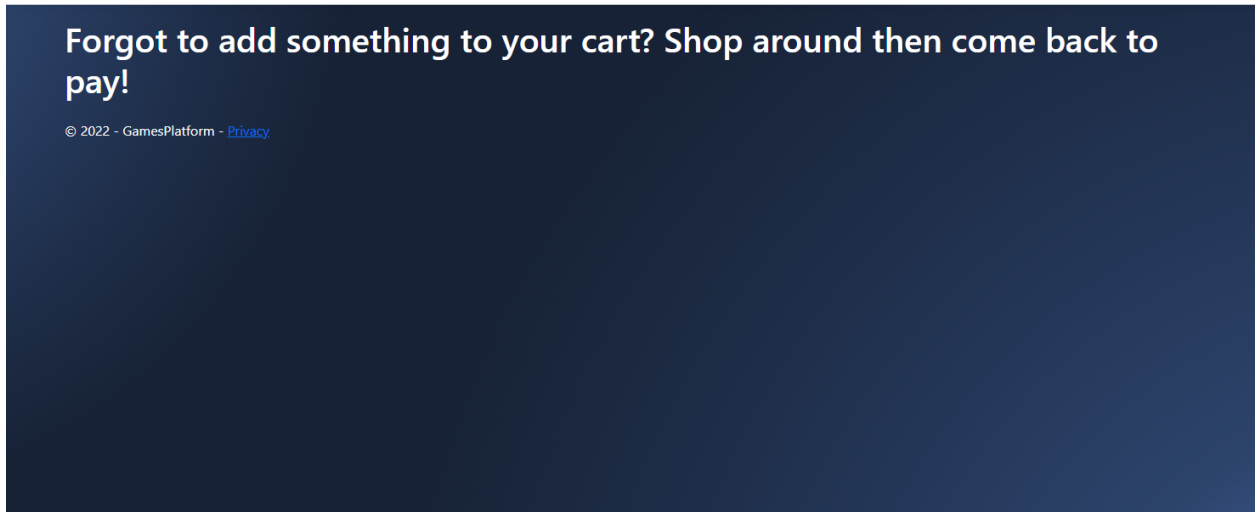


Figure 12: Cancelled Payment Page

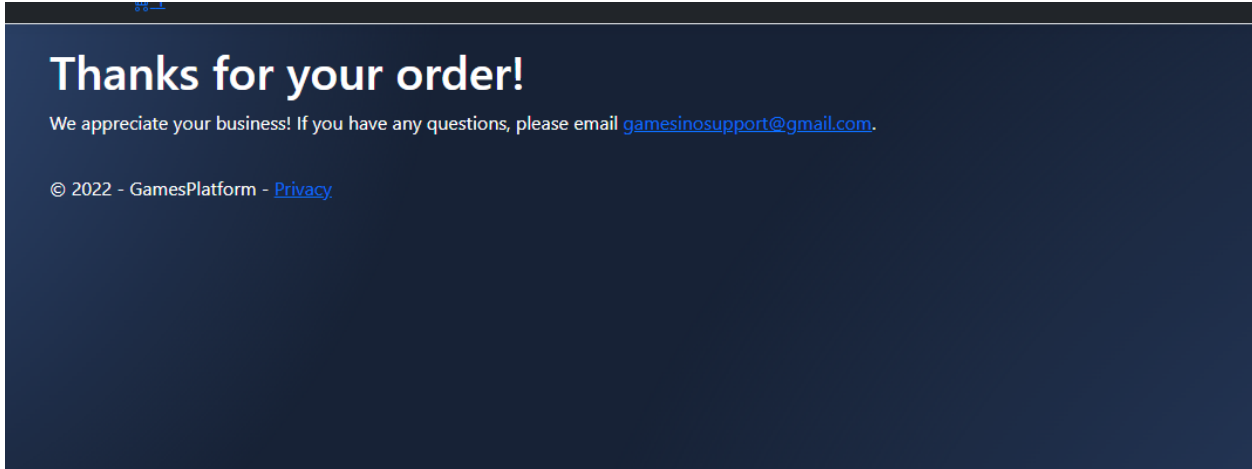


Figure 14: Success Payment Page

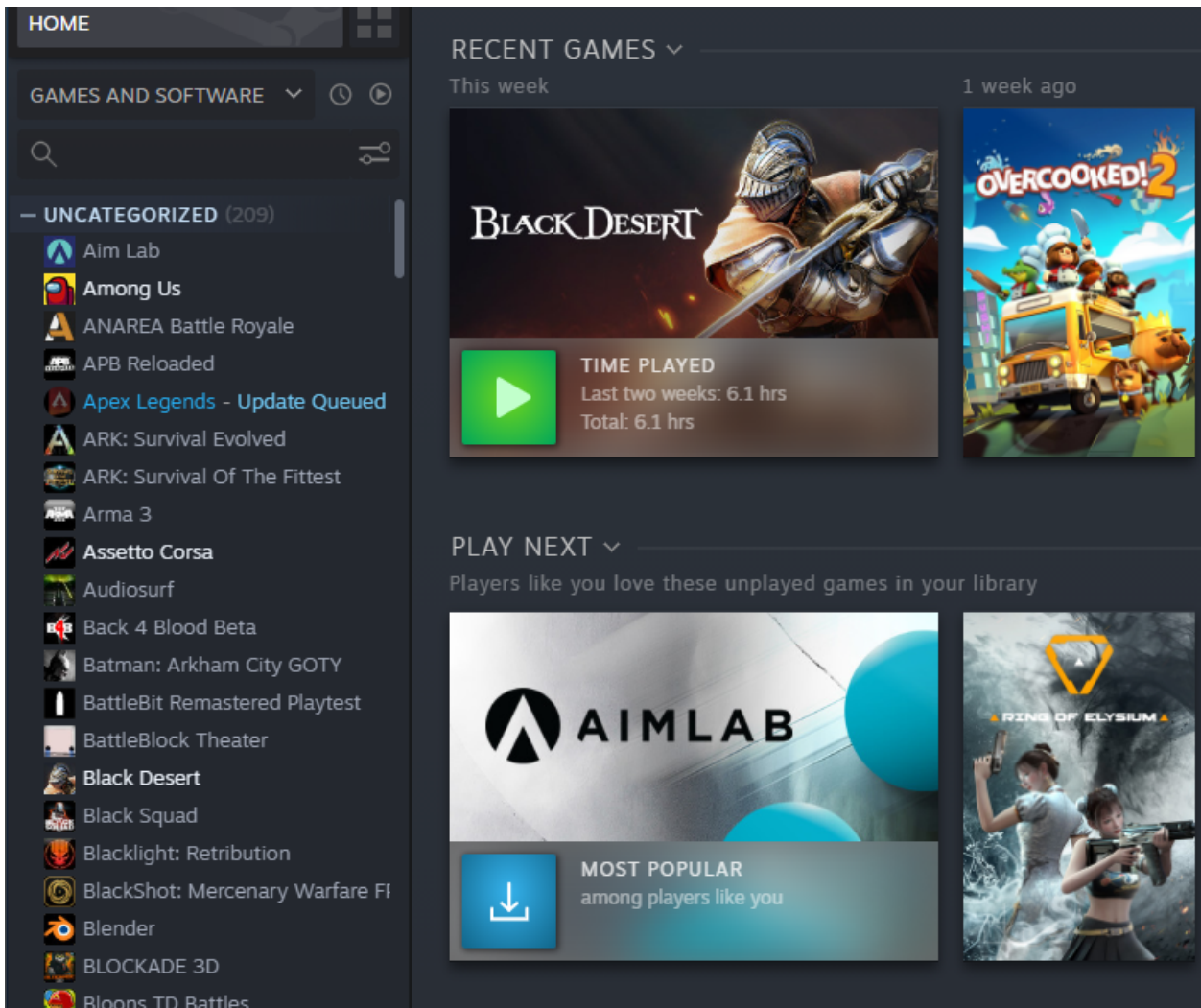


Figure 15: Library page (Source: Steam Client)

Home > Account > Purchase History

S PURCHASE HISTORY

Problem with a transaction? Select it below to get help.

| Date | Items | Type | Total | Wallet Change | Balance |
|-------------|-------|-------------------------------|-----------------|---------------|---------|
| 8 May 2021 | | Purchase | £15.49 | -£0.02 | £0.00 |
| 31 Mar 2021 | | Market Transaction | £0.02 Credit | +£0.02 | £0.02 |
| 30 Mar 2021 | | Purchase | £14.99 | | |
| 29 Mar 2021 | | Purchase | £6.79 | | |
| 23 Mar 2021 | | Purchase | £28.14 | -£0.07 | £0.00 |
| 20 Mar 2021 | | Market Transaction | £0.02 Credit | +£0.02 | £0.07 |
| 19 Mar 2021 | | Market Transaction | £0.03 Credit | +£0.03 | £0.05 |
| 14 Mar 2021 | | Market Transaction | £0.02 Credit | +£0.02 | £0.02 |
| 13 Mar 2021 | | 3 Market Transactions None | £0.22 | -£0.22 | £0.00 |
| 13 Mar 2021 | | 3 Market Transactions None | £0.09 Credit | +£0.09 | £0.22 |
| 13 Mar 2021 | | 4 Market Transactions | £0.13 | | |

ADD A GAME | DOWNLOADS | FRIENDS & CHAT

Type here to search | ENG UK | 17:12 12/05/2021

Figure 16: Transaction History page (Source: <https://www.ubisoft.com/en-us/help/article/accessing-your-transaction-history-and-proof-of-purchase-on-steam/000061770>)

[Your Store](#)
[New & Noteworthy](#)
[Categories](#)
[Points Shop](#)
[News](#)
[Labs](#)
search

All Games > Action Games > Aim Lab

Aim Lab

Community Hub


Aim Lab is the aim trainer of choice for over 20 Million players, from beginners to esports pros. Our unique aim analysis optimizes your gameplay, targets your weaknesses & builds key skills for any FPS/TPS game, all for free! Time to warm up with our unlimited scenarios & rank up in-game!

RECENT REVIEWS: **Very Positive** (1,621)
 ALL REVIEWS: **Very Positive** (82,130)

RELEASE DATE: 7 Feb, 2018

DEVELOPER: Statespace
 PUBLISHER: Statespace

Popular user-defined tags for this product:

Free to Play FPS Shooter Simulation Action +



Follow Ignore

View Your Queue

IN LIBRARY Aim Lab is already in your Steam library


Play Now 0.0 hrs on record
[View your stats](#) [View global gameplay stats](#)

Figure 17: Game Store Page (Source: Steam Client)

All Products > Your Shopping Cart

YOUR SHOPPING CART

Your item has been added!



Sons Of The Forest

28,99€ [Remove](#)

Estimated total¹ 28,99€


Is this a purchase for yourself or is it a gift? Select one to continue to checkout.

[Purchase for myself](#)
[Purchase as a gift](#)


¹ All prices include VAT where applicable

[Continue Shopping](#) [Remove all items](#)

DELIVERY



-25% ~~19,50€~~
14,62€



-65% ~~29,50€~~
10,49€

Figure 18: Shopping Cart (Source: Steam Client)

Order Summary

| Selected Games | Price | Quantity | Sub Total |
|--------------------|--------|----------|-----------|
| Reaction Test Game | €50.00 | 1 | €50.00 |
| Amoeba Online | €10.00 | 1 | €10.00 |
| Total | | | €60.00 |

[Proceed to Payment](#)

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Figure 19: Order Summary (Source: <https://gamesino.azurewebsites.net/>)

SHIPPING

SHIPPING ADDRESS ?

First Name * Last Name *

Street Address *

Apt / Suite / Unit (Optional)

City * Province *


Postal Code *

SHIPPING METHOD ?

Enter a shipping address to see accurate shipping options for your order.

GIFT OPTIONS

This is a gift



We'll hide the prices and print your personal message on the packing slip if you include one. You can also add UA GiftBox Kits to your order for assembly and wrapping at home.

CONTINUE

PAYMENT 

Gift Card, Credit Card, PayPal

CONTACT INFORMATION

Email and phone


ORDER SUMMARY

| | |
|--------------------|--------------------|
| Subtotal | \$74.98 CDN |
| Taxes | — |
| Shipping (2 items) | — |
| TOTAL | \$74.98 CDN |


APPLY A PROMO CODE OR DISCOUNT

BAG SUMMARY 2

Arrives in 4-7 days

 Men's UA Hustle Fleece Hoodie
1300123-025-XL
True Gray Heather (025), XL
~~\$49.99 CDN~~ \$37.49 CDN x 1

Edit Remove

 Men's UA Hustle Fleece Hoodie
1300123-600-XL
Red (600), XL
~~\$49.99 CDN~~ \$37.49 CDN x 1

Edit Remove

[Privacy Policy](#) | [Terms & Conditions](#) ?

Figure 20: CheckOut Page

(Source:

<https://www.bolt.com/thinkshop/checkout-page-best-practices-templates-examples-to-end-abandonment>)

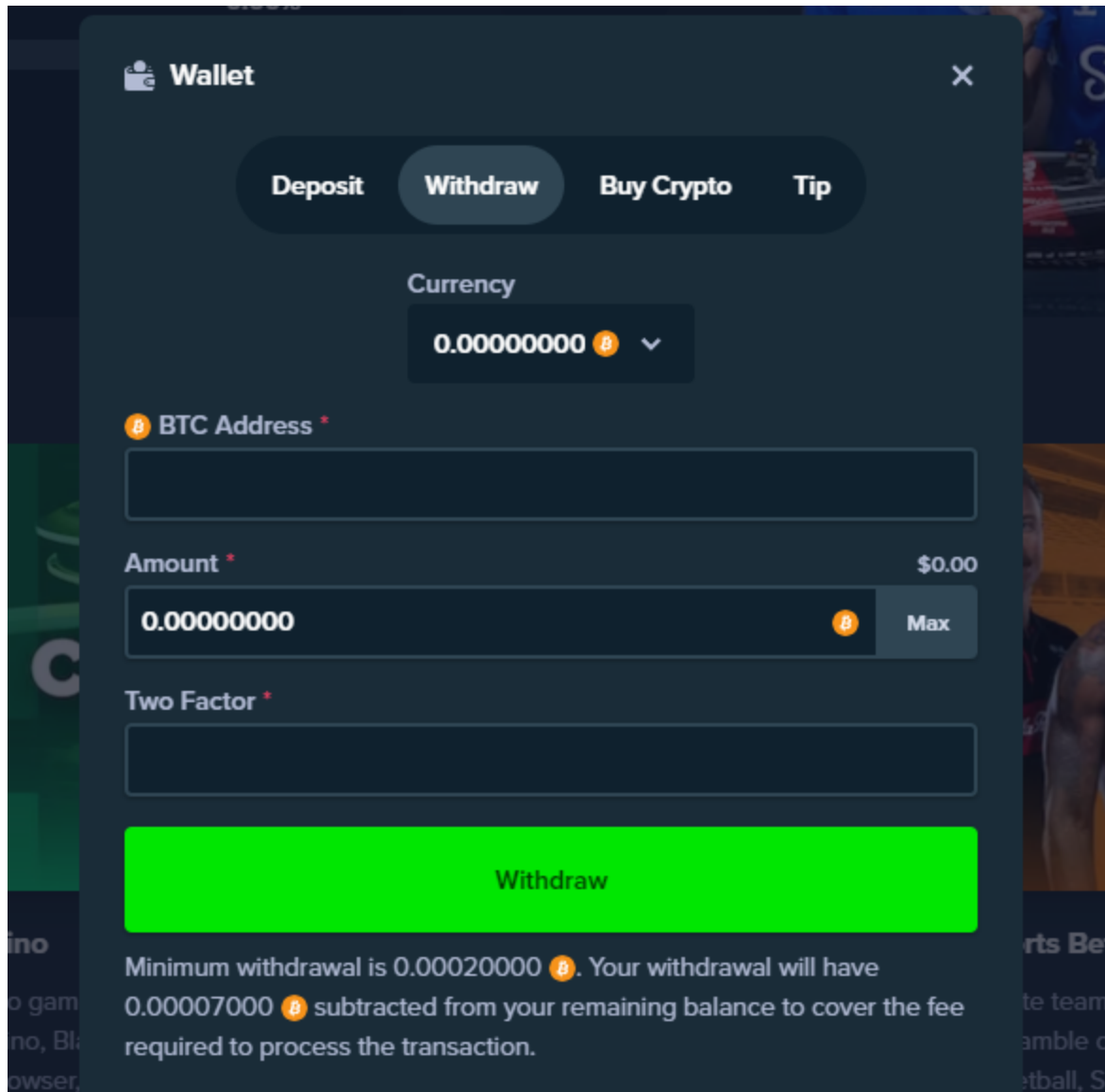


Figure 21: Withdraw Funds(Source:<https://stake.com/>)