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Application Green Quake



*Green Quake*

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**Github Link:**

<https://github.com/PeterX12/Application-Green-Quake.git>

**APK Github Link:**

<https://github.com/PeterX12/Application-Green-Quake/blob/master/ApplicationGreenQuake.apk>

**APK Google Drive Link:**

[https://drive.google.com/file/d/1MIPChFA\\_Z\\_XOzcy3yi\\_Q1Gt6JyNJcC1e/view?usp=sharing](https://drive.google.com/file/d/1MIPChFA_Z_XOzcy3yi_Q1Gt6JyNJcC1e/view?usp=sharing)

## **Abstract**

This document is a complete tutorial of the application including screenshots and links to the files for downloading the APK. A link to a video tutorial is also provided.

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## 1 Introduction

The Green Quake Application uses fun gamification and provides you with all the tools and information you need to become environmentally friendly and keeping you motivated along the way.

The Green Quake application enables you to log eco friendly activities that you perform from a list and earn points for them. These points are then used to place you on a global or national leaderboard. In addition the more you use the application and the more logs you make the more mosaic pieces you can unlock, the higher your level gets and the better you badges, achievements and trophies get.

Finally the application also provides a tool which displays places where you can refill a water bottle instead of buying plastic bottles and contributing to plastic waste. This tool loads at your current location and display locations on the map where you can refill your water bottle.

This manual is a short tutorial on how to use the Green Quake application.

## 2 Download and Installation

To get this application simply download the application from one of the following link:

Github:

<https://github.com/PeterX12/Application-Green-Quake/blob/master/ApplicationGreenQuake.apk>

Google Drive:

[https://drive.google.com/file/d/1MIPChFA\\_Z\\_XOzcy3yi\\_Q1Gt6JyNJcC1e/view?usp=sharing](https://drive.google.com/file/d/1MIPChFA_Z_XOzcy3yi_Q1Gt6JyNJcC1e/view?usp=sharing)

To install the application simply tap on the apk that you have downloaded from the links above on your device and select install and you can start using the app!

## 3 Video Tutorials

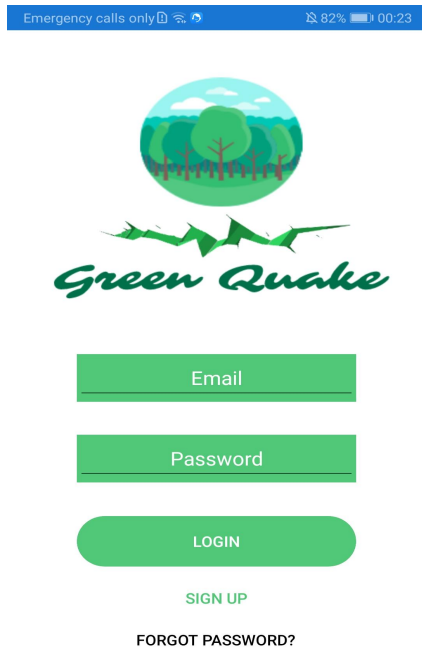
To make it even easier for you than reading this document any longer I have made a series of videos that you can view by clicking the link below that will walk you through the app.

YouTube Playlist:

[https://www.youtube.com/watch?v=b\\_8cmKZQRc8&list=PLrBUb-D1e2Sg33KuFTZVKChDbbvsZUM2A&index=2&ab\\_channel=PeterLucan](https://www.youtube.com/watch?v=b_8cmKZQRc8&list=PLrBUb-D1e2Sg33KuFTZVKChDbbvsZUM2A&index=2&ab_channel=PeterLucan)

## 4 Application Walkthrough

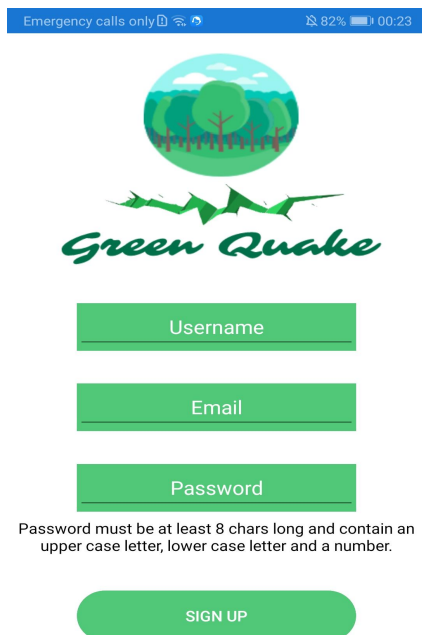
### 4.1 Login Screen



Using this login screen you can enter your email and password and login to the application. You can also sign up by tapping the sign up text at the bottom of the screen and if you cannot remember your password you can tap the forgot password text and request a password reset email.

Figure 1: Login Screen.

### 4.2 Sign Up Screen



Using this screen you can sign up and create an account for the Green Quake application. Any username can be used but a valid email has to be entered and the password must have at least one upper and lower case character, a number, a special character and must be at least 8 characters in length.

Figure 2: Sign Up Screen.

## 4.3 Forgot Password Screen

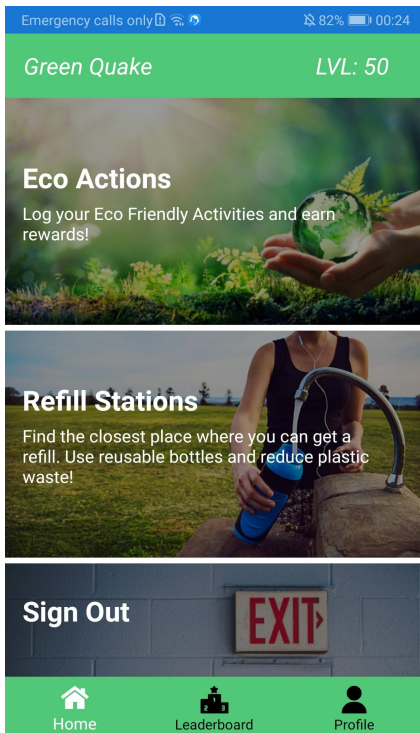


You can use this screen to enter an email and if it is valid and exists in the database you will receive a password reset email which you can use to reset your password.

### Forgot Your Password

Figure 3: Forgot Password Screen.

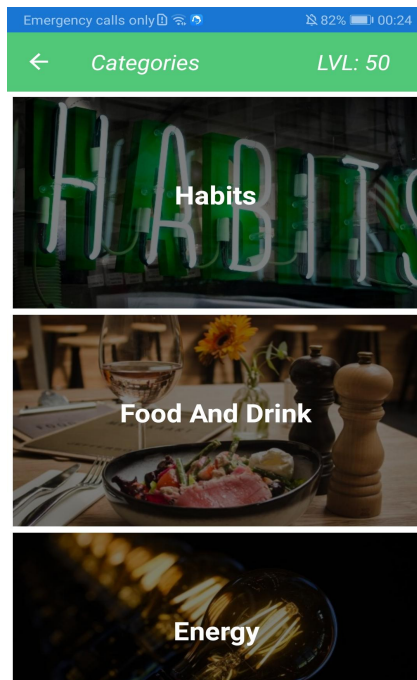
## 4.4 Main Menu Screen



Using this main menu you can navigate to the eco actions, to the refill station map and also sign put. Using the navigation menu at the bottom of the page you can also navigate to the leaderboard and to the profile page. Your level is displayed on top of the application.

Figure 4: Main Menu Screen.

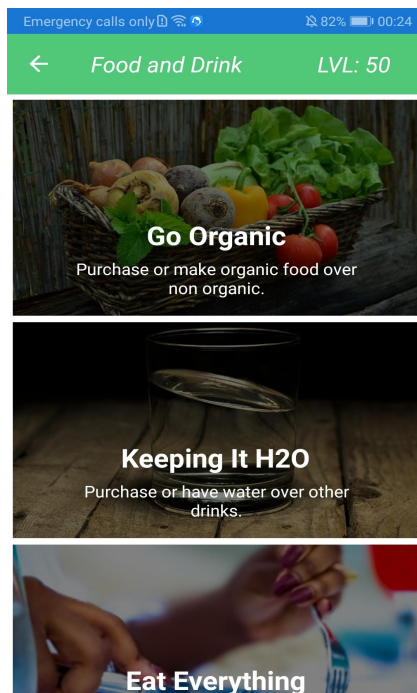
## 4.5 Categories Screen



Using this screen that appears after you select Eco actions in the main menu you select the category of the action that you want to log.

Figure 5: Categories Screen.

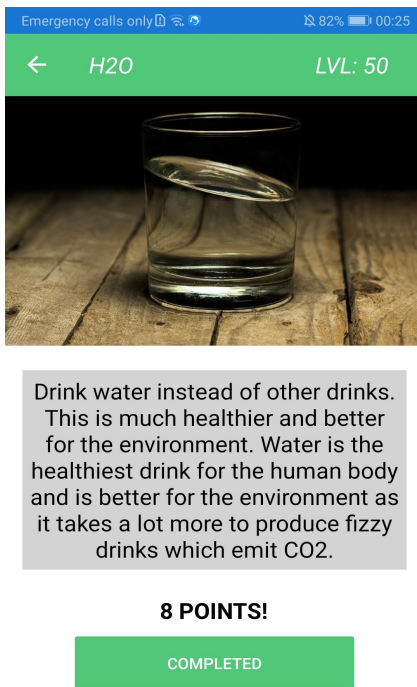
## 4.6 Food and Drink Subcategories Screen



This is the **Food and Drink** subcategories screen that appears after you select Food and Drink from the previously mentioned categories screen. Here you can select the action you want to log.

Figure 6: Food and Drink Subcategories Screen.

## 4.7 H2O Action Screen

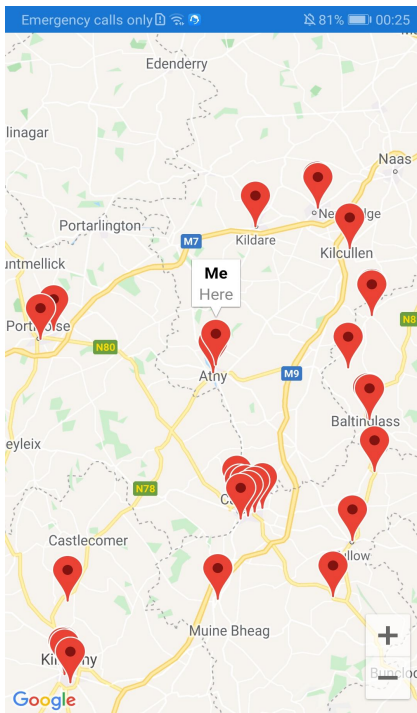


This is the **H2O** action screen. This screen provides some details and interesting information about this particular action. The amount of points that it is worth is displayed below the text. You can press the Completed button to log the action.

The application does not allow more than 15 posts per day or more than 1 action per 60 seconds.

Figure 7: H2O Action Screen.

## 4.8 Refill Stations Screen

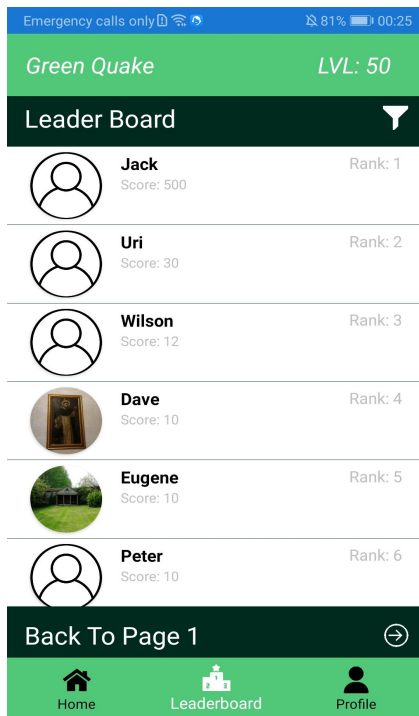


This is the **Refill Stations** screen that appears after you select the Refill Station from the previously mentioned main menu. This screen loads a map at your current location and displays all the Refill Station on the map. You can clearly see where the refill stations are located in retrospect to their location and can tap on each pin to view more details about it.

Figure 8: Refill Stations Screen.



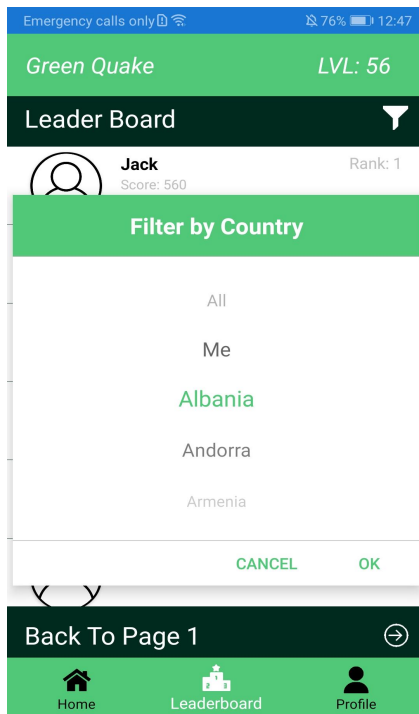
## 4.9 Leaderboard Screen



This is the **Leaderboard** screen that appears after you select the Leaderboard from the navigation menu at the bottom of the screen on the previously mentioned main menu. On this screen the leaderboard displays 10 rows per page. You can tap on a profile to view more information about each user. You can also tap the icon in the top right to filter the leaderboard. You can also tap the right arrow at the bottom right of the page to see the next 10 entries and tap the Back to Page on text to return to the first page. If there are no more pages to loads then an alert box with the appropriate message gets displayed.

Figure 9: Leaderboard Screen.

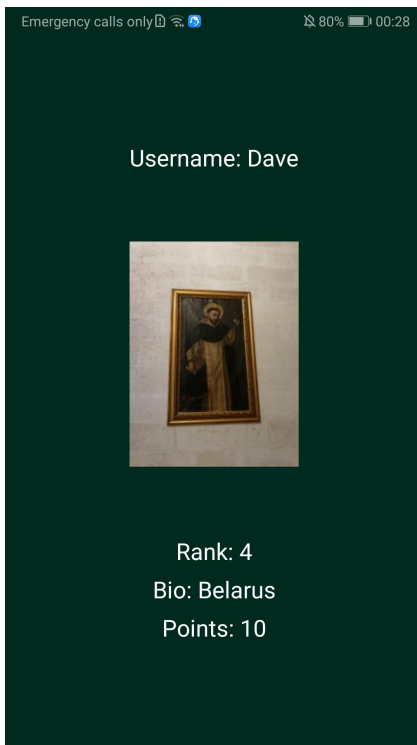
## 4.10 Leaderboard Screen When The Filter Button Is Tapped



This is the **Leaderboard** screen when the **filter icon** is tapped. A picker with the options All, Me and the list of nations appears. You are allowed to filter to display all the users on the leaderboard, filter by nation or view their own position on the leaderboard global.

Figure 10: Leaderboard Screen When The Filter Button Is Tapped.

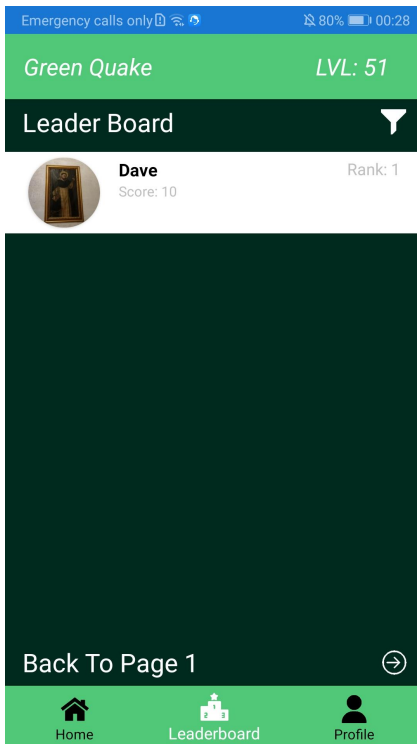
## 4.11 Leaderboard Pop Up Screen When A Profile Is Tapped On The Leaderboard



This **popup** screen appears when a profile is tapped on from the leaderboard. It displays more information about the tapped on user. The information displayed is the username, the profile picture, the rank, the bio and the points.

Figure 11: Leaderboard Pop Up Screen When A Profile Is Tapped On The Leaderboard.

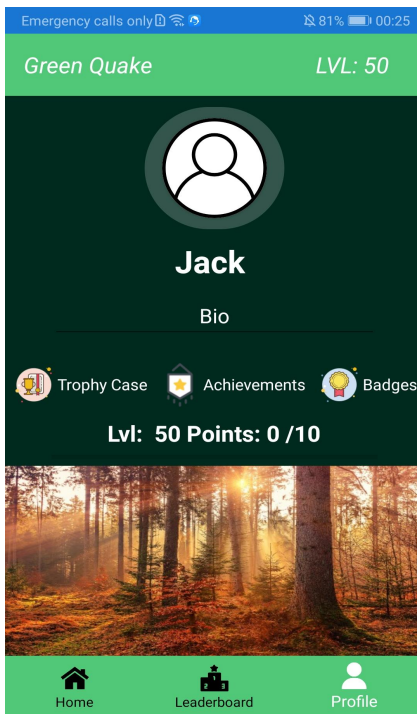
## 4.12 Filtered Leaderboard Screen



This is the **Leaderboard** after it has been **Filtered by Nation**. Only the profiles with the correct nation are displayed and they are ranked against other accounts of the same nation.

Figure 12: Filtered Leaderboard Screen.

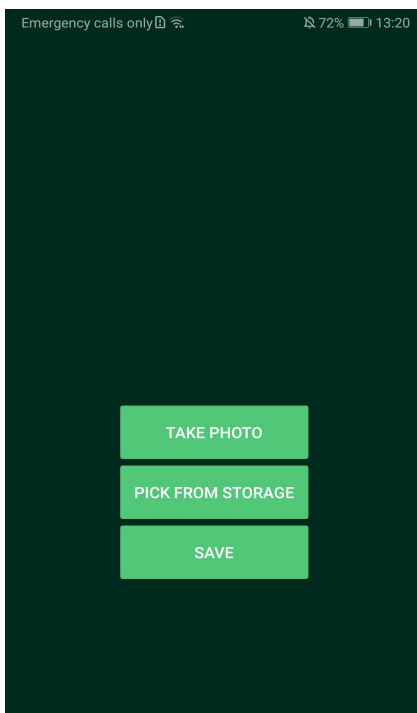
## 4.13 Profile Screen



This is the **Profile** screen that appears after you select the Profile from the navigation menu at the bottom of the screen on the previously mentioned main menu. The Profile screen has the profile picture and bio that you can tap to change and their username. Below this are the Trophies, Achievements and Badges. By tapping on each of these the corresponding screen is displayed showing the Trophies, Achievements and Badges. Below this, your level is displayed with a progress bar to the next level indicating how many points out of 10 you need to level up. Finally below this is the live avatar that is a mosaic that gets unlocked piece by piece on each level up. The mosaic gets unlocked after each level so each mosaic has 5 stages and there are 20 mosaics to unlock which makes them end at lvl 100.

Figure 13: Profile Screen.

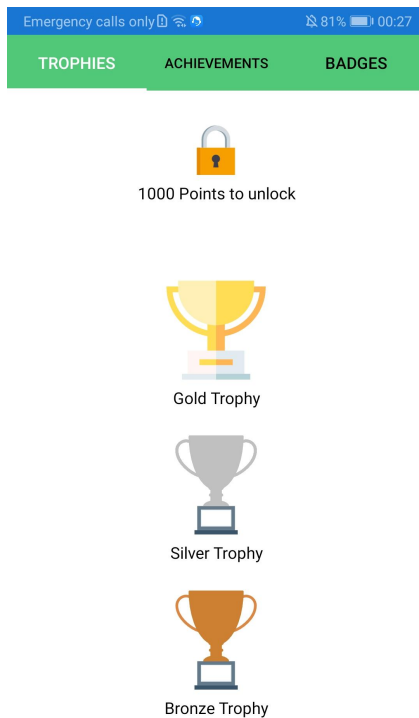
## 4.14 Popup Screen After The Profile Image Is Tapped



This **popup** screen appears when you tap on the profile image on the profile screen. This popup allows you to take a photo and save it as your profile picture or pick an image from the phone's storage and save it as your profile picture. Then the you will be redirected to the profile screen.

Figure 14: Popup Screen After The Profile Image Is Tapped.

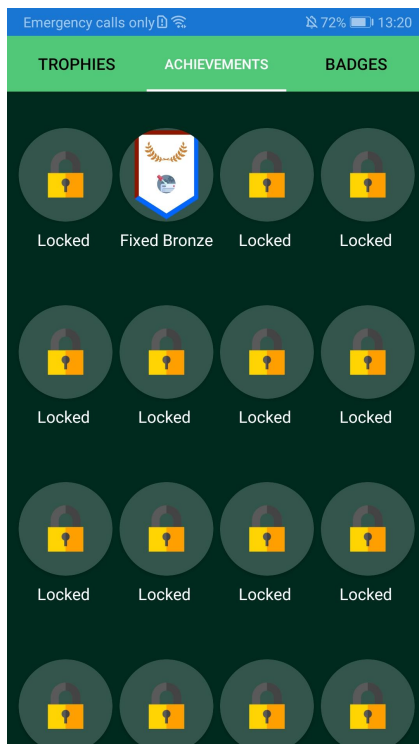
## 4.15 The Trophies Screen



This is the **Trophies** Screen that can be navigated to from the profile screen by tapping on the trophy case icon and text. The trophies are initially locked and get replaced with trophies as the requirements get met. Bronze trophy for 100 points, Silver for 250, Gold for 500 and Diamond for 1000.

Figure 15: The Trophies Screen.

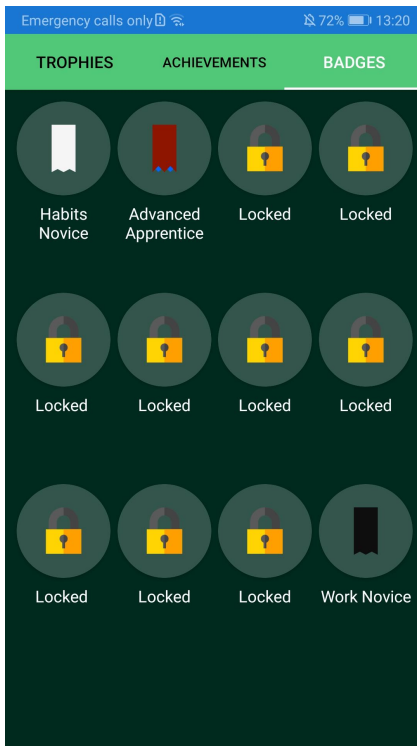
## 4.16 The Achievements Screen



This is the **Achievements** Screen that can be navigated to from the profile screen by tapping on the achievements icon and text. There are achievements for every action that can be logged which makes it over 80 achievements that you can earn. In addition to this these are live achievements which can be bronze, silver and gold so there are over 260 achievements to earn in total. The achievements are initially locked and get unlocked by meeting the qualifying requirements. A bronze achievement is unlocked when a certain action gets logged 5 or more times, a silver achievement is unlocked when a certain action gets logged 15 or more times and finally a gold achievement is unlocked when a certain action gets logged 25 or more times.

Figure 16: The Achievements Screen.

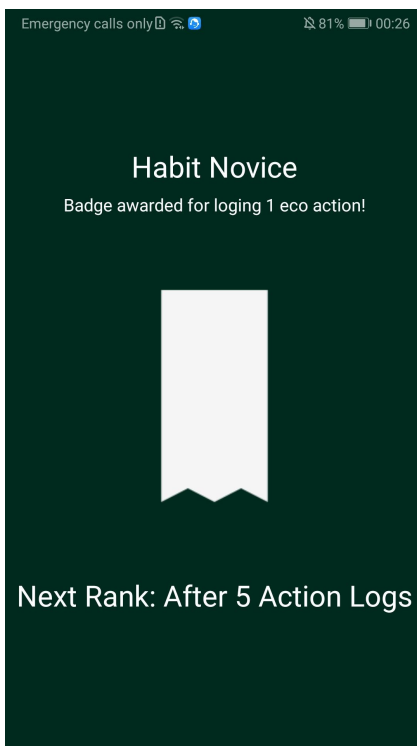
## 4.17 The BadgesScreen



This is the **Badges** Screen that can be navigated to from the profile screen by tapping on the badges icon and text. There are badges for every category that you make a login. There are 12 categories and there are 12 badges that can be unlocked and displayed. These are live badges and there are 6 levels in each category making it 72 badges that you can earn. Each badge has a different design. The badges are initially locked and get unlocked when certain conditions are met. The Novice badge for a certain category gets unlocked when you makes a single log or more in that category. Apprentice badge for 5 or more, Adept badge for 10 or more, Expert badge for 25 or more, Master badge for 50 or more and Legend Badge for 100 or more. All these badges can also be tapped on to get a close up and view more information.

**Figure 17:** The Badges Screen.

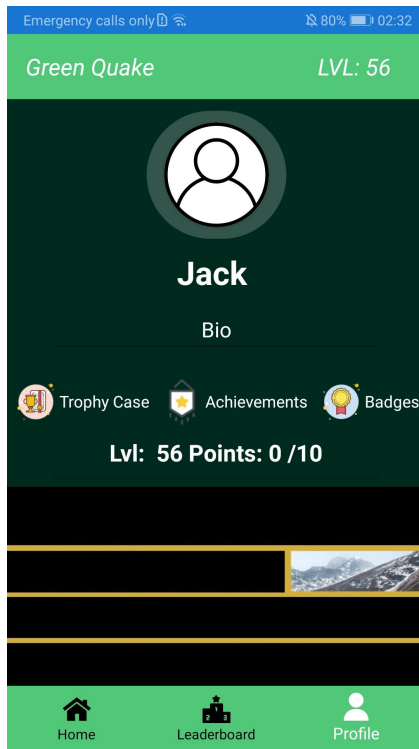
## 4.18 The Badge Popup Screen



This **Popup** screen appears when you tap on the badges on the badges page. This image displays a close up of the badge and a description for the badge and what it was awarded for. It also tells you the requirements to get the next badge.

**Figure 18:** The Badges Screen Popup When A Badge Is Tapped.

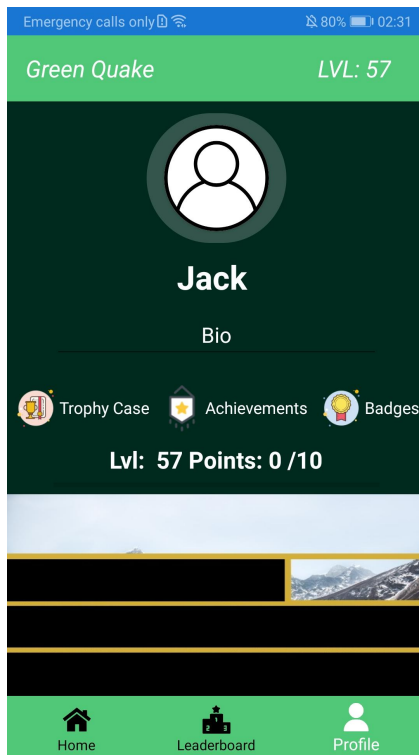
## 4.19 The Live Avatar Mosaics on Lvl 56



As you can see the mosaic only has one piece unlocked on level 56.

Figure 19: The Live Avatar Mosaics on Lvl 56.

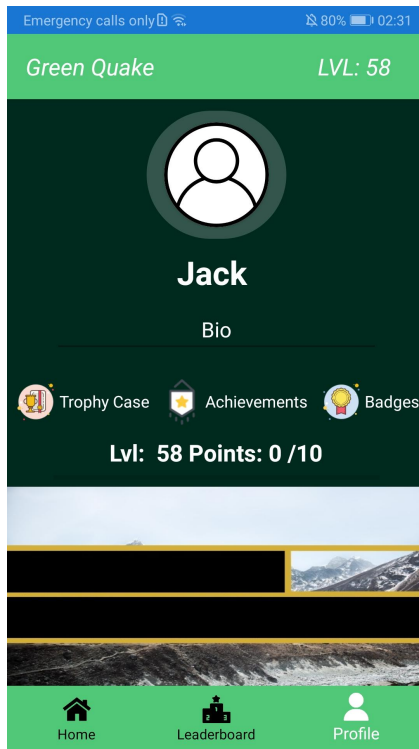
## 4.20 The Live Avatar Mosaics on Lvl 57



As you can see the mosaic only has two pieces unlocked on level 57.

Figure 20: The Live Avatar Mosaics on Lvl 57.

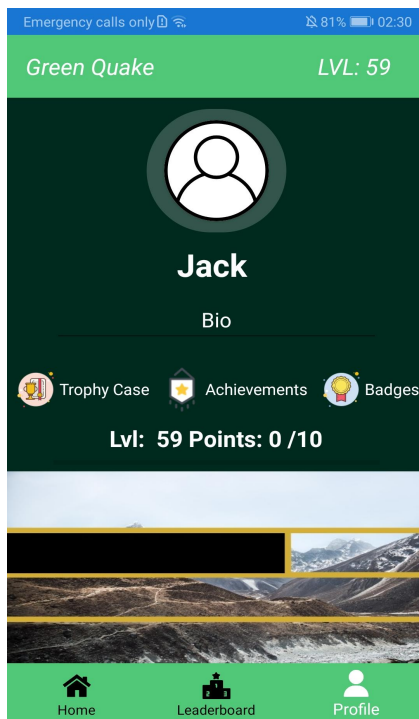
## 4.21 The Live Avatar Mosaics on Lvl 58



As you can see the mosaic has three pieces unlocked on level 58.

Figure 21: The Live Avatar Mosaics on Lvl 58.

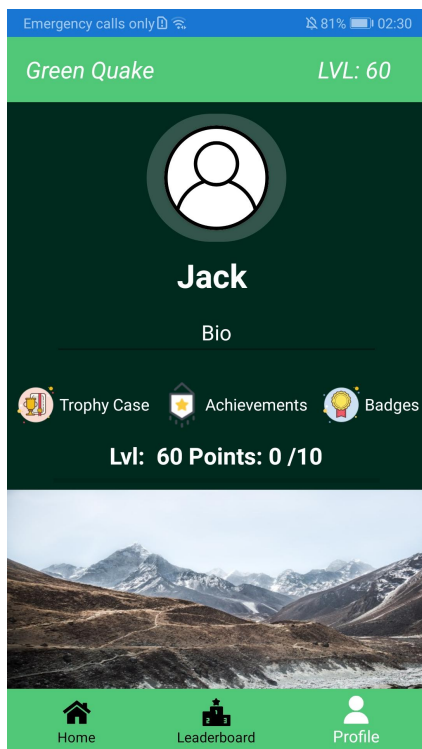
## 4.22 The Live Avatar Mosaics on Lvl 59



As you can see the mosaic has four pieces unlocked on level 59.

Figure 22: The Live Avatar Mosaics on Lvl 59.

## 4.23 The Live Avatar Mosaics on Lvl 60



As you can see the mosaic has all pieces unlocked on level 60. The process repeats itself every 5 levels with a new image each time all the way to level 100.

**Figure 23:** The Live Avatar Mosaics on Lvl 60.