

# User Manual

*Golf Course Mapper*

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## 1 System Overview

The project will allow golf course owners/managers to draw their golf course using the provided web application. While drawing the golf course, details about the map can be added, such as locations of the hole, green, fairway, or any obstacles and hazardous areas. Golf players will be able to view the map via their Android phones, enabling them to have a hands-on digital map with details of the course. This will allow the user to plan their shots better and more strategically.

## 2 System Configuration



The website and the mobile application connects to the server to retrieve data. An Internet connection is needed to load the map on both the web and mobile application. It is recommended to have Android 4.4 or later for the mobile application. The latest version of Internet Explorer, Google Chrome or Mozilla Firefox is recommended.

### 3 Getting Started

Website: To access the website go to the URL (<http://localhost:5000/>). If this is your first time using the website, please register your credentials. If you have used the website before login with your credential that you used to register.

Mobile Application: To access the mobile application press on the application on a mobile device.

### 4 Using the System

#### 4.1 Register and Login

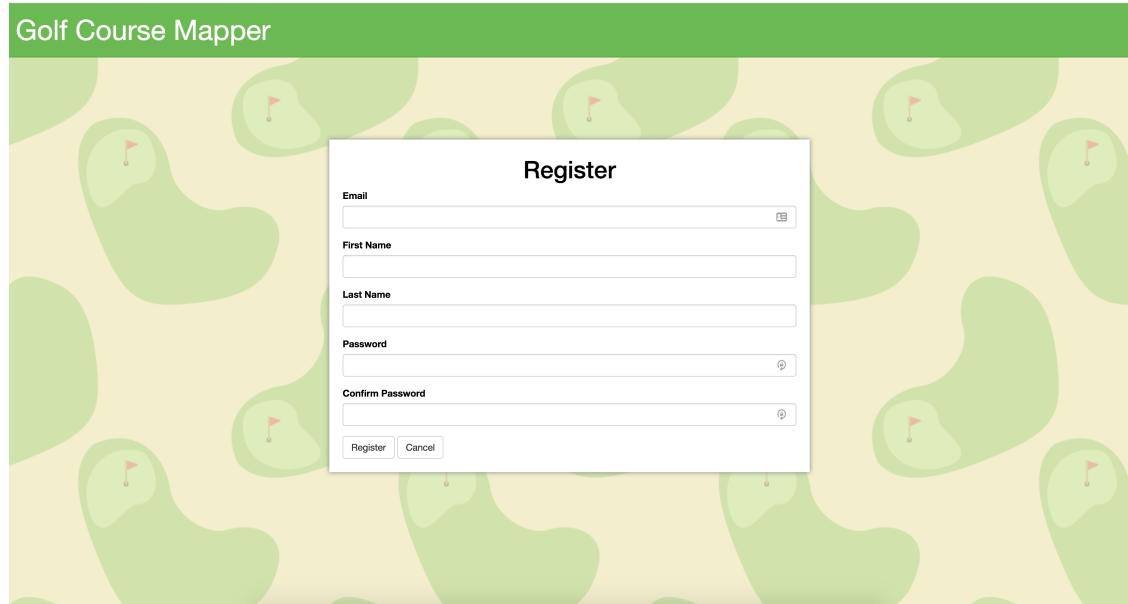


Figure 1.

##### 4.1.1 Register

To register for the website, type in your credentials in the text boxes as seen in figure 1. The fields are Email, First Name, Last Name, Password and Confirm

Password. After your details have been entered, click on the Register button to register.

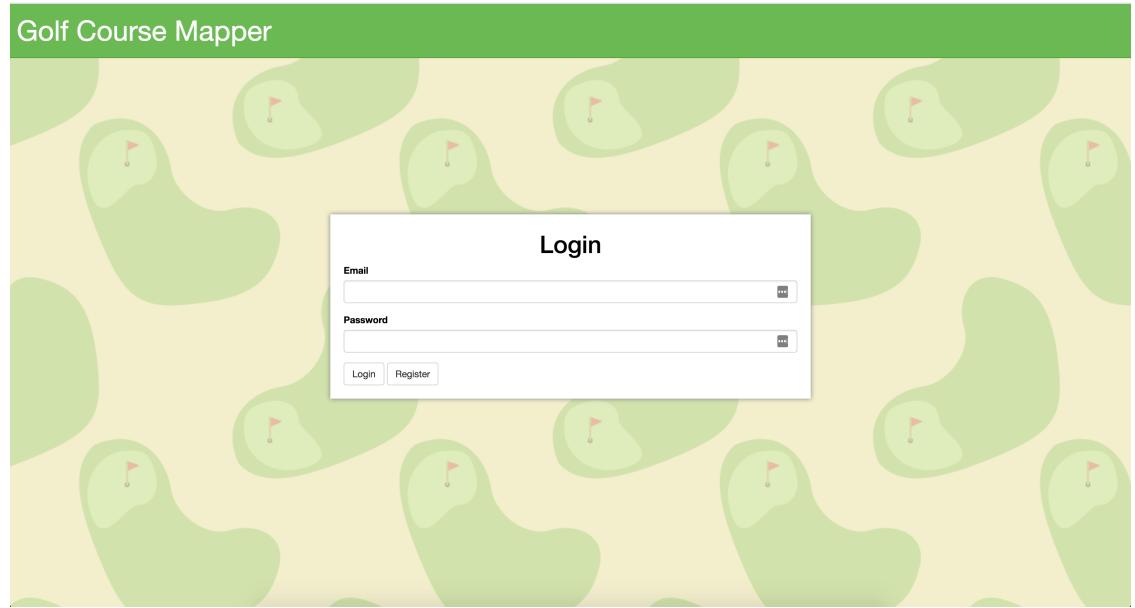


Figure 2.

#### 4.1.2 Login

After you have successfully registered your credentials (see 4.1 for more details). Type in the same Email and Password that you registered with, click on the Login button to login. As seen in figure 2.

## 4.2 Website

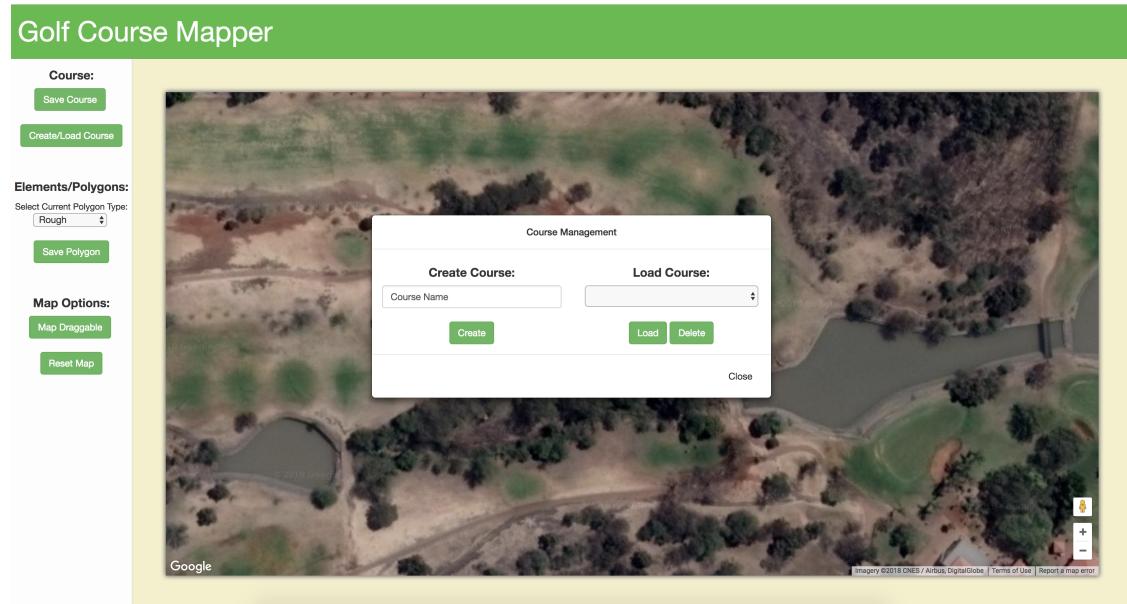


Figure 3.

### 4.2.1 Create Course

Type in the name of the desired golf course to create the course as shown in Figure 3. After an appropriate name has been chosen, click on the "Create" button. The course will now be created with the chosen name.

### 4.2.2 Load Course

To load a course click on the Load Courses select box as seen in figure 3. After the desired course has been selected click on the Load button, the desired course will now be loaded.

### 4.2.3 Delete Course

To delete a course click on the Load Course select box as seen in figure 3. After the desired course has been selected, click on the delete button to delete the course.

### 4.2.4 Save Course

After changes have been made to the current course, click on the "Save Course" button to save the changes made.

#### 4.2.5 Polygon

To create a polygon click on the map to create a dot (vertex). By clicking multiple times on the map the polygon will be constructed. When the desired polygon is completed click on the "Save Polygon" button, as indicated in Figure 3. The polygon will now become inactive and cannot be edited.

#### 4.2.6 Polygon Types

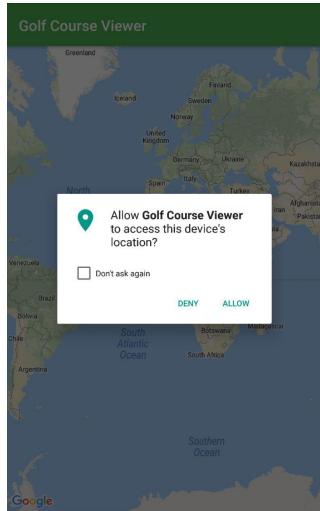
To change the terrain type click on the polygon type drop down menu. Choose the desired terrain option. The polygon will be updated accordingly.

#### 4.2.7 Map Controls

**Map Draggable** Click on the "Map Draggable" button. The map will now stay in the same position making the course mapping easier. To revert back to make the map draggable click on the "Map Draggable" again.

**Reset Map** Click on the "Reset Map" button to reset the map to the original state.

### 4.3 Mobile Application



#### 4.3.1 Allow Permissions

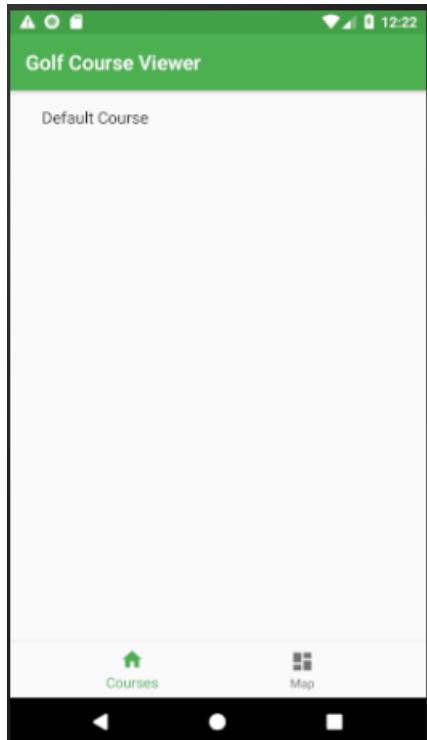
When starting the application, a message will pop up to ask for permissions to use location services. Press "Allow" to allow location services to be used.

#### 4.3.2 View Course



Move around by touching and zoom by pinching the screen. Move to the location of gold course created to view the course.

#### 4.3.3 Select Course



Press on the Courses item in the bottom navigation bar to view to available courses. Press on the desired course to view the course.