

User Manual

Golf Course Mapper

Team Recursive Recursion
Retro Rabbit

September 21, 2018

Contents

1	System Overview	2
2	System Configuration	2
3	Installation	3
4	Getting Started	3
5	Using the System	3
5.1	Register and Login	3
5.1.1	Register	4
5.1.2	Login	4
5.2	Website	5
5.2.1	Select a Golf Course	5
5.2.2	Create Golf Course	5
5.2.3	Search Golf Course	5
5.2.4	Create a Hole	6
5.2.5	Select a Hole	6
5.2.6	Delete an Element	6
5.2.7	Place a Marker	6
5.2.8	Polygon	7
5.2.9	Reload Course	7
5.2.10	Save Course	7
5.2.11	Delete Course	7
5.3	Mobile Application	7
5.3.1	Allow Permissions	8
5.3.2	View Course	8
5.3.3	Select Course	9
6	Troubleshooting	10

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 Installation

Website: The website is installed on a server but the source code can be cloned from github and can run with: `ng serve`. Mobile App: The app can be found on the Google Play store, just click on the install button and launch the application.

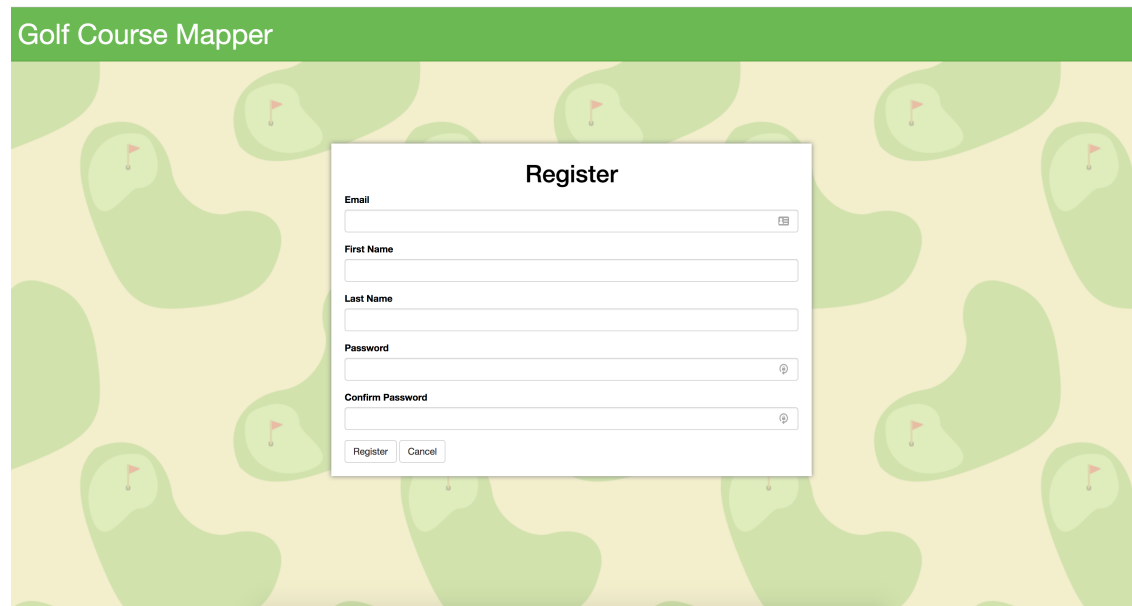
4 Getting Started

Website: To access the website go to the URL (<http://localhost:4200/>). 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.

5 Using the System

5.1 Register and Login



The screenshot shows a web application interface for 'Golf Course Mapper'. At the top is a green header bar with the text 'Golf Course Mapper' in white. Below the header is a background image of a golf course with several green fairways and yellow flags. Overlaid on this background is a white rectangular form titled 'Register'. The form contains the following fields: 'Email' (with a calendar icon on the right), 'First Name', 'Last Name', 'Password' (with a password icon on the right), and 'Confirm Password' (with a password icon on the right). At the bottom of the form are two buttons: 'Register' and 'Cancel'.

Figure 1.

5.1.1 Register

The first time you use the website you must 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. A message will show that you successfully registered and can now use the website. If you receive an error, see the troubleshooting section.

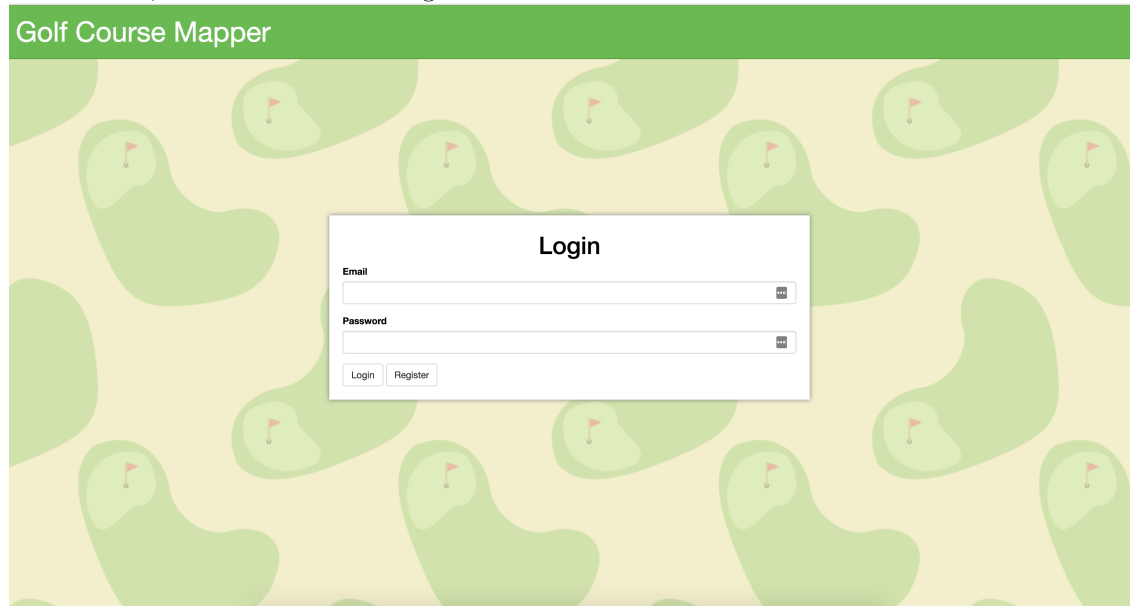


Figure 2.

5.1.2 Login

The next step when wanting to use the website. 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. The website will now log you in and you can now use the website to map a gold course.

5.2 Website

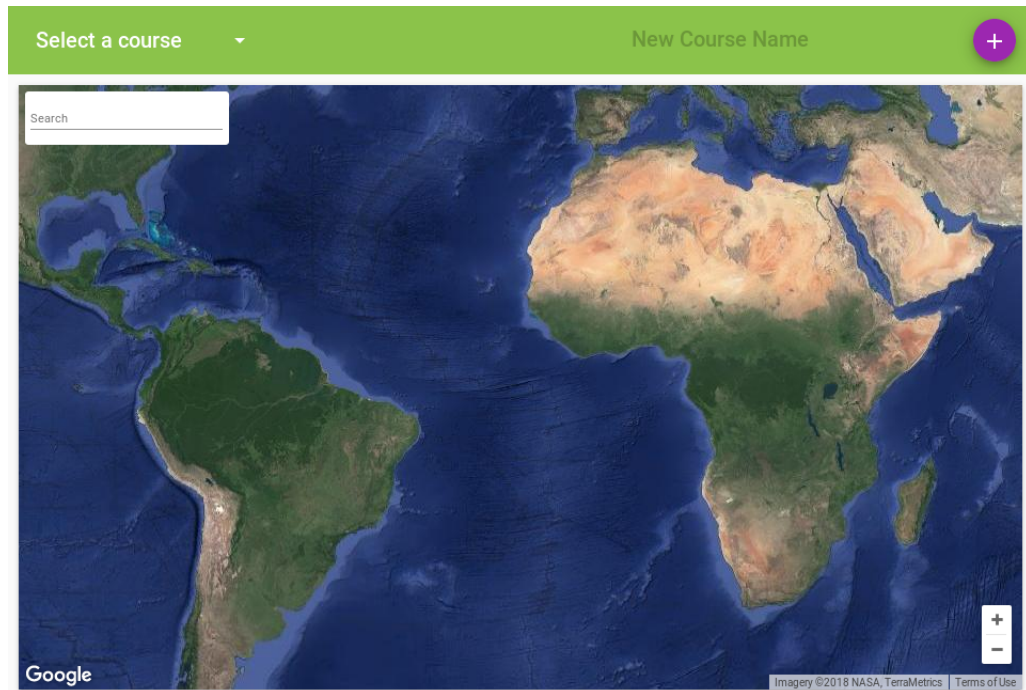


Figure 3.

5.2.1 Select a Golf Course

To load a course click on the "Select a course" text as shown in Figure 3. A drop down menu will appear with all the available course. Click on the desired course to load the course onto the map. You would want to do this if you want to load and edit a previous course.

5.2.2 Create Golf Course

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

5.2.3 Search Golf Course

Type in a name of a location to search it on the map. This function is used to find a golf course on Google maps that you want to edit and save. This is used to find a desired golfcourse. After searching the map will move to that location.

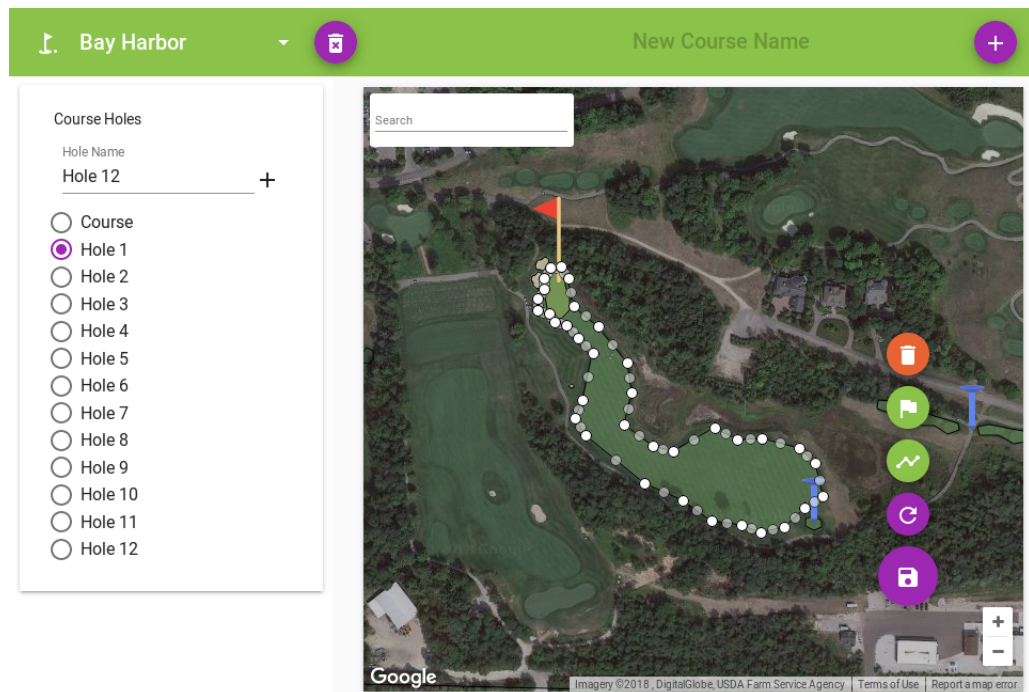


Figure 4

5.2.4 Create a Hole

Type in the name of the hole in the "Hole Name" text box. Click on the "+" icon to create the hole. Use this option when you want to add another golfhole to the golfcourse.

5.2.5 Select a Hole

To select a hole click on the circle icon next to the desired hole to select and view the hole on the map.

5.2.6 Delete an Element

To delete an element click on the element and then click on the red trash can icon. The selected element will now be deleted. Use this option when you placed an element incorrectly and want to remove/delete it.

5.2.7 Place a Marker

To place a marker on the map, click on the green flag icon on the right of the screen. Click on a desired location for the marker to be placed. A menu will appear to select the type of marker and to add additional information. Click on

the done button to finish the marker placing. The available markers are: Hole, Tee, and Pin

5.2.8 Polygon

To create a polygon or map out a element, click on the green line icon. To create the polygon click on the map in the desired locations. Lines will appear as the user click, when the polygon has been completed a menu will appear to choose the element type. The available types are: Green, Fairway, Water hazard, and sand bunker.

5.2.9 Reload Course

To reload the course, click on the purple reload icon on the right of the screen. The map will now reload.

5.2.10 Save Course

To save changes made to a course or hole, click on the purple save icon on the right of the screen. Any changes made will now be saved.

5.2.11 Delete Course

To delete a course, load the desired course. Click on the purple trash can on the right of the course name to delete the golf course.

5.3 Mobile Application

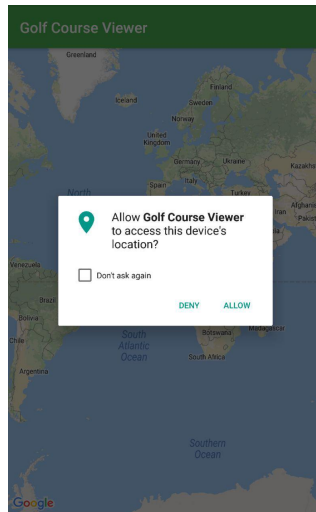


Figure 5

5.3.1 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.

5.3.2 View Course



Figure 6

Move around by touching and zoom by pinching the screen. Move to the location of gold course created to view the course. The next hole can be seen by tapping on the blue arrow on the right button

5.3.3 Select Course



Figure 7



Figure 8

Press on the Courses item in the bottom navigation bar to view to available courses as shown in Figure 7. Press on the desired course to view the course. After the course has been chosen, the hole can then be selected as shown in Figure 8

6 Troubleshooting

Q: The page is not loading.

A: Check that you have an internet connection.

Q: The website is giving a random error

A: Have you tried turning it off and on again?

Q: In development mode, the website is saying "trusted"=true, what now?

A: Run the API with dotnet run, the API is available on github