First Time Setup of the Web GUI

Before you start, download the project from the following url
https://github.com/ahnguyen03/ECE-492-W18
Look for the "Clone or download" green button, and click "Download ZIP".

Unzip the project and navigate to /ECE492GUI/WebFiles. This is where all the relevant files are located for the gui.

Google Maps API:
You will need to register for your own google maps api. You can do so here.
https://developers.google.com/maps/documentation/javascript/get-api-key

Replace the following line in the file index.html with the key you receive.
<script async defer src="https://maps.googleapis.com/maps/api/js?key=YourGoogleMapKey" type="text/javascript"></script>

Web GUI: Working with 000Webhost
These steps are meant to help you through the steps we took to get a web server running. If you have your own webserver to host the GUI, then these steps may not be as useful (Though steps 10 and 11 can narrow down the search for certain code changes).

1 - Create a free 000webhost account
	https://www.000webhost.com/free-website-sign-up
2 - Navigate to the Manage Database tab
3 - Select "New Database"
4 - Give the new database a name and create a DBusername and password (The DBusername and password are important for communication with the database)
5 - Once the database is created, click "manage" and select "PhpMyAdmin"
6 - Navigate to the database you created using the navigation menu on the left hand side of the screen. Click on the SQL tab and run the "create table" portion of the code found in "createDB.sql" file. You will need to change the database name to the one 000webhost assigned.
7 - Back on the 000webhost website, navigate to the "File Manager" tab
8 - Select "Upload Files". This should redirect you to a different web page.
9 - Once on the 000webhost file manager, select the "upload files" button on the top right.

Before we upload our files, we'll need to make some changes to the code.

10 - go to the "WebFiles" folder, located in the "ECE492GUI" folder. For EVERY PHP file, make sure...

$username
$password
$dbname
Are set to the username, password and database name you used in step 4.
Also, locate the line
mysqli_select_db($conn, "YourDatabaseName");
And make sure the database name is correct. Everything else can be left as is.

```php
header("Access-Control-Allow-Origin: *");
$servername = "localhost";
$username = " ";
$password = " ";
$dbname = " ";
/*$q = intval($_GET['q']);*/
// Create connection
$conn = mysqli_connect($servername, $username, $password, $dbname);

// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_error($conn));
}
mysqli_select_db($conn, " ");
```

Make sure these fields are correct

The reason this needs to be done is because it tells the PHP files which database it should query, and gives it the authorization to access the database.

11 - In scripts.js you will need to change certain lines of code. This can be done with a find/replace operation. If you open a text editor, load a find/replace and use the following lines…
Replace: http://ece492group4.000webhostapp.com/
Replace with: http://YourWebsiteURL/

You can find you 000webhost url by clicking on the "Build website" or "Settings" -> "General" on the navigation bar on the 000webhost website.

The reason this needs to be done is because it tells our javascript which web server it should contact.

12 - upload all the files found in the "WebFiles" folder into the public_html folder.
13 - You should now be able to see you website, type in "http://YourWebsiteURL.com" into the url and you should be able to see the webpage. (NOTE: Webpage will not communicate with the database if you type in https://)