System and Unit Test Report

- SlugSense (Mobile app)
- The Other Sense
- 7/23/17

System Test Scenarios:

For Sprint 1 (late team formation caused sprint 1 to be effectively 2 days only):

A. <u>"As a user, I want to see a welcome screen when I open the app"</u>
   Scenario:
   1. Start SlugSense App from terminal (using ionic serve command)
   2. User should see the default template of the default ionic App

For Sprint 2:

A. <u>"As a developer, I want a draft for layout, so that the team can have a shared vision of the application."</u>
   Scenario:
   1. Can open the files SlugSense UI (both old and new ones) as Images or as Sketch and adobe XD files
   2. Developer should see the original UI mockup and the improved new mockup along with the font/color guidelines
B. <u>"As a user, I want to view the information from my sensors in a chart, so that I can visualize my irrigation habits."</u>
   Scenario:
   1. Open the initial test App, navigate to the home page –default page-
   2. The user should see a view of the chart displaying test/fake data and visualizing them successfully
      i. Test data should be visualized in a line graph that correctly plots the two test arrays
      ii. Correctly plotting the test arrays means that graph points are (array1[index], array2[index]) for each index of the two equal length input arrays

For Sprint 3:

A. <u>"As a user, I want to securely login into the App, so that my information stays protected"</u>
   Scenario:
   1. Start SlugSense App, and type "sustainability" in the username and password field
   2. Press the login button
   3. The App will authenticate with the back-end server and after successful verification, will navigate the User to the main page.

B. <u>"As a user, I want to see a nice looking modern design for the App, so that I can have a better user experience when using it"</u>
   Scenario:

1. Start SlugSense App, the user should see a modern material design interface for the login page
2. Type "sustainability" in the username and password field, and press login
3. The user should see a modern UI interface for the main page and the side menu

C. "As a developer, I want to integrate all the individually working functionality within the final version of the App"
Scenario:
1. Start SlugSense App
2. Type "sustainability" in the username and password field, and press login
3. At the main page, the developer –and the user- should see the buttons displaying the current data for the selected node, while the graph is displaying the historic data (daily or weekly) in an appealing visual manner.

D. "As a developer, I want to be able to save all the data received from the server locally, so that I can successfully manipulate and display them on the App"
Scenario:
1. Start SlugSense App
2. Type "sustainability" in the username and password field, and press login
3. From the browser console editor, call the function to display the node objects received from the backend serve
4. From the main page, use the "Change NodeID" button –test button for developer only- to toggle between the different Nodes
5. The developer should see the received Json Objects along with their individual attributes (Temp, Humidity, …etc.)

E. "As a user, I want to be able to see my devices' information in an easy and visual way, so that I can better monitor my greenhouse/garden"
Scenario:
1. Start SlugSense App
2. Type "sustainability" in the username and password field, and press login
3. The user should see the main page of the App, and on it, lies the 4 cards displaying the current the sensor data, and the Graph displaying the historic data for the specific sensor that is selected
4. Press the side menu toggle and choose a different Node ID from the available list of nodes –devices-
5. The User should see all the current information for that new node, along with the graph visualizing the data from the previous 24 hour or

week.

Unit Tests:

- All unit tests are in the "Testing repository on github.