Test Plan

In this test plan we will be writing black box tests to test all the components of our product.

**1. Acceptance Tests**

|  |  |
| --- | --- |
| Requirements of the product | Test Pass Status |
| User can create an account |  |
| User can register and delete devices |  |
| User can monitor device usage |  |

**2. Golden Path Testing**

**3. Testing Broken Up by Page**

1. Registration
2. Per Field in Registration Form
3. Boundary testing for each field:

* 0 characters
* min # of characters
* min # < x number < max #
* max # of characters
* max # of characters + 1
* Ensure that all fields are filled in

1. Validating Format

* email field is in an email format
* phone number field matches a phone number format
* Optional Password format for security purposes

1. Concurrent Users

* Username is unique

1. Multiple Users and Security
2. Optional Confirmation Email.
3. Optional force for user to enter email twice to confirm it.
4. Optional force for user to enter password twice to confirm it.
5. Is sensitive information being stored on cookies? Which data should we be encrypting?
6. Invalid data types
7. Letters inside of phone number. Expected: fail.
8. Parentheses and “-“ inside of phone number. Expected: pass.
9. Numbers inside of name. Expected: fail.
10. Chars that are not numbers or letters in a username. Expected: fail.
11. Missing Fields

* Test that each field is filled in: if there is a missing field, is the error obvious to the user?
* Test what happens if no field is filled in
* Test all fields being filled in. Expected: Pass.
* Test all fields being filled in with characters that are not numbers or letters – decide if this is the expected result.

1. Dashboard
2. Deleting a Device

* Device appears on the page
* Device is NOT deleted from the database, but labeled as “inactive” for telemetry uses and the possibility if we would ever want to add a feature for the user to see a history of their activity.
* Device is no longer marked as active in the database for that user.

1. Adding a Device

* Device appears on page immediately
* Device is added to database for that user, based on unique username
* Device has visualization data to be shown immediately when it is plugged in.
* Device has visualization data graph that is shown with no data on it, but in a presentable way at the time before they have added any data. Possible message to the user that they must first plug in their device to see data can be shown.

1. Unplugging a device and seeing an expected response on the Dashboard
2. Plugging in a device and seeing an expected response on the Dashboard. Classification popup of the appliance will happen automatically and give suggestions as to which device it is.
3. Visualization
4. Showing ALL data points with expected outcome.
5. Selection of each time frame shows data from the expected time frame.
6. Clicking rapidly on each button does not have an unexpected failure.
7. Going from a visualization page, then to another page, and then using the browser’s “back” button to go back to the visualization page does not cause an unexpected error.
8. Login
9. User Settings about Login Information
10. Trying to access a URL for logged in users only by hardcoding it in while NOT logged in.
11. User is logged in, closes browser, opens browser. Is user still logged in? Expected: Yes
12. User is logged in, shuts down computer, opens browser. Is user still logged in? Expected: Yes
13. User is logged in on browser X, opens browser Y, is user logged in on browser Y? Expected: NO
14. User is logged in for 2 days on same computer. Computer falls asleep during that time or does not fall asleep. In both cases, user is still logged in. Expected: Yes.
15. Use cases to be determined if User is in public setting, such as a library.
16. Blog (Stretch Goal)
17. Ali can easily add a new blog post without needing to get too technical. (eg. Adding a view) Expected: Yes.
18. User can see the most recent blog posts first. Expected: Yes.
19. Posts are separated into pages. When a new page is clicked on, unique posts to that page are shown.
20. If an image is deleted or cannot be rendered, a default image is shown as a backup.
21. Button to go back to the main page takes you back to the main page.
22. Blog is accessible to everybody.

II. App (Stretch Goal)

1. App can login user that has registered on SEADS Site
2. App will not login user that has not registered
3. Buttons go to the expected pages