**Test Plan - Results**

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 | **PASS** |
| User can register and delete devices | **PASS** |
| User can monitor device usage | **PASS** |

**2. Golden Path Testing PASS**

**3. Testing Broken Up by Page**

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

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

1. Validating Format

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

1. Concurrent Users

* Username is unique **PASS**

1. Multiple Users and Security
2. Optional Confirmation Email. **STASH**
3. Optional force for user to enter email twice to confirm it. **STASH**
4. Optional force for user to enter password twice to confirm it. **STASH**
5. Is sensitive information being stored on cookies? Which data should we be encrypting? **PASS**
6. Invalid data types
7. Letters inside of phone number. **PASS**
8. Parentheses and “-“ inside of phone number. Expected: pass. **PASS**
9. Numbers inside of name. **PASS**
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? **PASS**
* Test what happens if no field is filled in **PASS**
* Test all fields being filled in. Expected: Pass. **PASS**
* Test all fields being filled in with characters that are not numbers or letters – decide if this is the expected result. **PASS**

1. Dashboard
2. Deleting a Device

* Device appears on the page **PASS**
* 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 **PASS**
* Device is added to database for that user, based on unique username **PASS**
* Device has visualization data to be shown immediately when it is plugged in. **PASS**
* Unplugging a device and seeing an expected response on the Dashboard

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

II. App (Stretch Goal) **STASH**

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

**Sprint 1: User Stories**

STORY 1 - High Priority

I am a user so I need to have a navigable website so I can utilize it correctly. **PASS: Tests Cover This**

STORY 2 - High Priority

I am a user and I need to be able to connect to the database in order to see my data.

**PASS**

STORY 3 - Low Priority

I am a user so I need to be able to change my personal settings so I can adjust my user experience. **PASS: Personal Settings were removed by the advice of Sponsor. Password Reset works as expected.**

STORY 4 - Low Priority

I am a user so I need to be able to login so my microgrid data is secure. **PASS: Tests Cover This**

**Sprint 2: User Stories**

STORY 1 - High Priority

I am a developer so I need an API to better facilitate the creation of this product. **PASS**

STORY 2 - High Priority

I am a user so I need to be able to register my microgrid sensors so I can keep track of their usage. **PASS: Tests Cover This**

STORY 3 - Medium Priority

I am a user with limited patience and time so I need a website that quickly gives me the information I need so I can quickly understand my energy consumption and make energy-saving decisions. **PASS: Tests Cover This. All Pages load within 4 seconds.**

**Sprint 3: User Stories**

STORY 1 - High Priority

I am a user so I need to have visual representation of my data so I can better understand it. **PASS**

STORY 2 - High Priority

I am a user so I need to be able to view graphs of my current devices so I can keep track of their usage. **PASS**

STORY 3 - Medium Priority

I am a user so I need to be able to see my historical usage data so I can analyze device usage patterns and make informed decisions about my microgrid usage. **PASS**