Test Plan – Group 3

Sign-up page/Login in

User test cases:

Valid Credentials: Test logging in with a valid username and password to ensure the API authenticates correctly.
Invalid Username: Attempt to log in with a non-existent username and verify that the API returns an appropriate error response.
Invalid Password: Test logging in with a valid username but an incorrect password to confirm that the API rejects the request with the correct error message.
Database Entry: When sign in make sure that the login is added into the database and that the API correctly calls the new information.

Test data:
Valid Credentials:
Email: Sama8318@colorado.edu
Password: password123

Invalid Credentials
Email: ihoppancakes
Password: I don't like syrup

Test environment:
NodeJS environment set up with Mocha and Chai for unit testing.
Mock data or test database with predefined user credentials for testing against.

Test results:
Valid Credentials: Redirect to the home page where information is listed.
Invalid Credentials: Redirect back to login page with a pop up showing that the information provided was not valid.

User acceptance testers: Nathan Martin-Bourne – Roommate

Navigation Bar

<u>User test cases:</u>

Valid Interactions: Users should be able to utilize the navigation bar when they are logged in with proper credentials and be redirected to the appropriate pages.
Invalid Interactions: If a user is not logged in with proper credentials, they should not be allowed to redirect off the login or register pages, and the navigation bar should not show up.
Proper Pages: The navigation bar should not be able to redirect a user to a page which they should not access without certain credentials, such as an admin page.

<u>Test data:</u>
Valid: A logged in user may use the navigation bar to navigate the various pages, but not other ones.
Invalid: A non-logged in user should not be able to navigate to pages besides the login and register pages.

<u>Test environment:</u>
Localhost environment hosting the website utilizing Docker.

<u>Test results:</u>
Valid Results: Logged-in users should be able to navigate to the pages listed on the navigation bar, but not other ones.
Invalid Results: Not Logged-in users should only be able to access the login and register pages and not utilize the navigation bar.

<u>User acceptance testers:</u> Mitchell Kubina – CS Student/Roommate

Alerts Feature
<u>User test cases:</u> Valid interactions: Users should be able to open the alerts page and be presented with chronological alerts from their local area. The page should update automatically when new alerts are added, and the user should also be able to filter alerts by location. The user should be able to select a new location to show alerts for and the alerts should match the chosen location of the user.

<u>Test data:</u>
Valid: A valid added alert using user login and pushing from Admin side (accepting alert) should show up on alerts page.
Invalid: Invalid user input alert (invalid fields) should not be accepted by administrators and should not show up on alerts page.

Test environment: Localhost environment hosting the website utilizing Docker.

Test results: When alerts are added by a user, they show up to all users on their alerts page.

User acceptance testers: Mitchell Kubina – CS Student/Roommate