User Story Map

Access website
As a user, I can access the website — Size: Medium — Priority: High

Sprint 1
- Setup and initialise server — Size: Medium — Priority: High
- Create landing page — Size: Small — Priority: High
- Configure test and lint framework — Size: Medium — Priority: Medium

Select and view a data visualisation

As a user, I can visualise pre-selected data — Size: Large — Priority: High

Sprint 1
- Setup and configure DBMS on separate server — Size: Large — Priority: High
- Configure API access to DB server — Size: Large — Priority: High
- Create visualisation dashboard — Size: Medium — Priority: High
- Create multi line plot on dashboard (from pre-selected data) — Size: Large — Priority: High

As a user, I can select different visualisations for pre-selected data — Size: Large — Priority: High

Sprint 1
- Implement circle pack visualisation — Size: Large — Priority: High
- Implement aster plot visualisation — Size: Large — Priority: High

Customise the data set to be visualised

As a user, I can select a residence and view the corresponding visualisation — Size: Large — Priority: Medium

Sprint 2 (MVP)
- Integrate Open Source Maps API — Size: Large — Priority: High
- Outline monitored residences — Size: Large — Priority: Medium
- Render colour map of residence consumptions — Size: Large — Priority: Medium

As a user, I can select different resources to be visualised — Size: Medium — Priority: High

Sprint 2 (MVP)
- Configure DB API to cater for resource queries — Size: Medium — Priority: High
- Process and visualise data by resource type — Size: Medium — Priority: High

As a user, I can see total consumption or average consumption per student — Size: Large — Priority: Medium

Sprint 2 (MVP)
- Utilise student data to render average student consumption — Size: Large — Priority: Medium

As a user, I can select the resolution of the data I wish to view — Size: Medium — Priority: Medium

Sprint 2 (MVP)
- Menu to allow the user to select sampling resolution — Size: Small — Priority: Medium
- Query the database with the requested resolution and graph the data — Size: Medium — Priority: High

Visualise comparative data

As a user, I can compare different date ranges for the same building — Size: Medium — Priority: High

Sprint 2 (MVP)
- Configure server query system to cater for multiple queries at different dates — Size: Large — Priority: High
- Process and visualise collection of queries for different dates — Size: Large — Priority: High

As a user, I can compare different buildings for the same date range — Size: Medium — Priority: High

Sprint 2 (MVP)
- Process and visualise collection of queries for different buildings — Size: Medium — Priority: High

Log fault for resource wastage

As a user, I can log a generic resource wastage fault — Size: Large — Priority: Medium

Sprint 2 (MVP)
- Create popup window with a form — Size: Small — Priority: Medium
- Integrate sendgrid API to send logged faults — Size: Large — Priority: Medium

As a user, I can log a resource specific fault for wastage

Sprint 2 (MVP)
- Dropdown menu to select the type of resource wastage — Size: Small — Priority: Medium

As a user, I can log a location specific fault for resource wastage

Sprint 2 (MVP)
- Add a field for the location of the fault — Size: Small — Priority: Medium

Role based log in system

As a user, I can create an account — Size: Large

Future Development
- Create SQL database structure for storing user information — Size: Large — Priority: High
- Form for registering a new user — Size: Small — Priority: High
- Store user information in database — Size: Medium — Priority: Medium

As a user, I can log into my profile to log a fault

Future Development
- Create a login page — Size: Medium — Priority: Medium
- Validate login credentials — Size: Large — Priority: High
- Redirect user to fault logging system upon successful log in — Size: Small — Priority: High

As a user, I can view my profile

Future Development
- Create profile page — Size: Medium — Priority: Medium

As a user, I can change my password

Future Development
- Form to change password — Size: Small — Priority: Medium
- Store edited password in DB — Size: Small — Priority: Medium

As an administrator, I can manage all registered users

Future Development
- Create user management panel — Size: Large — Priority: High

As an administrator, I can create accounts for different types of users

Future Development
- Enhance user management panel to allow account role creation — Size: Large — Priority: Medium
- Implement access rights for each account role — Size: Medium — Priority: Medium

As an administrator, I can change access rights for different users

Future Development
- Enhance user management panel to control access rights for users — Size: Large — Priority: High

As a maintenance staff member, I can view all logged faults

Future Development
- Store all logged fault in database — Size: Medium — Priority: High
- Redirect staff member to fault logger upon successful log in — Size: Medium — Priority: Medium
- Query and display logged faults — Size: Medium — Priority: High

As a user, I can log in using my google account

Future Development
- Integrate google sign in API to login and registration page — Size: Large — Priority: Medium