Release Plan

Team Name: Team DASH

Team Members:

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Tentative Project Title: BMIDashboard

Description: Create a dashboard to visualize and compare the utility data usage for the Monterey Bay National Marine Sanctuary. Dashboard is for exhibitors that visit the sanctuary.

High Level Goals: After retrieving data from the Building Management System, we need to convert data into a readable format. We want to store the data into a database. Lastly, we want to retrieve the data from the database and display.

User Stories for Release:

Sprint 1

Parsing Data - As a developer, I need to convert the data to JSON or CSV or TSV so that I can use visualization tools to showcase values.

- 13 points

Storing into our local database - As a developer, I need to have a database system so I can store data as efficiently as possible.

- 8 points

Establish project functionality - As a developer, I need to display data in a simple manner to the visitor.

- 8 Points

Setup Github - As a developer, I need to setup github repo so that we can efficiently progress.

- 1 Point

Sprint 2

Establish project functionality - As a developer, I need to display data in a simple manner to the visitor.

- 8 Points,

Viewing previous data - As an exhibitor, I need to be able to see energy consumption of previous days so that I can compare different days.

- 8 Points

Communicate with database- As a developer I need to learn PHP/MySQL so that I can connect our database to our web interface, through the use of visualization tools.

- 13 Points

Prepare for live- As a developer I want to simulate live data from past data so that we are prepared to show true live data.

- 5 Points

Live acquisition- As a developer, I need to work on gathering live data from the building management system so that we can show true live data.

- 8 Points

User Manual - As a user, I must be able to read a user manual for the BMI Dashboard

- 3 points

Sprint 3

Connect Pipeline - As a developer, I need to connect data acquisition, insertion, and visualization together so that I can have a functional dashboard.

- 13 Points

BMS Database Insertion - As a developer, I need to insert BMS data into our database and ensure that there are no duplicates and be able to access data from the web interface.

- 13 Points

PV Database Insertion - As a developer, I need to get rid of duplicate entries from the database so that we don't have repeated data for the PV.

- 8 Points

User Interface - As a user, I need to have a user interface so that I can easily use the dashboard.

- 8 Points

User Manual - As a user, I must be able to read a user manual for the BMI Dashboard so that I can understand how to install and use the dashboard.

- 3 Points

Regression Testing - As a developer, I need to be able to perform and create regression tests so that I can ensure that the dashboard is working correctly.

- 5 Points

Product Backlog: Acquiring live data from MBNMS is out of the scope of this release due to limited access to the BMS system and it's complicated infrastructure. Therefore, we cannot display live data to the user. All data that appears live is simulated.