Team Name: Earth Dimension C-137

Ideas:

Real-time map that shows maintenance issues, assists with task scheduling, and allows issue reporting.

Features:

- Number of user reports
- Verified fix it users
- Comments to show what is wrong
- Localized issues to only be able to see what is wrong in your area
- Able to add photos of the issue
- Heat map
- employ conferment.

Members: Nolan Porter, Kevin Eastman, Madelaine Struwe, Daniel Scott, Lesley Lai, Curry Buscher

Vision Statement:

To streamline the maintenance process in order to improve the day to day life of the average citizen.

Motivation:

To resolve the issues that may be overlooked by the current systems in place. Although there are a few methods in place to help people report issues about things such as a street light being out, this application is meant to make reporting such issues more appealing and more manageable.

Risks:

Feature creep (getting in over our head) is a big challenge for inexperienced teams. Also, none of us have a ton of experience creating websites. Implementing the feature that integrating photos into a map may to hard.

Risk Mitigation Plan:

We will iteratively create one feature at a time and not move on until it is tested and know to be working then adding on if we still have time. Also, we will utilize the resources available to us to be able to increase our knowledge on different types of web development. We also have one member who runs a blog, and we can pull from his experience to guide us in our quest. We can reach out to other people that have done similar tasks to this one to look for guidance on specific issues we have.

Version Control:

We will use Git for version control and host our repository on Github. Members will fork the main repository and use Github Pull Request to update it.

Development Method:

We will be following the Agile paradium for development. We will break up the site into different features that we want to employ and code one at a time and put it through testing until we have something that works then add on addition features as we have time.

Collaboration Tool:

We will be using Slack, Google Docs, and Github to communicate and create and share documents within our group.

Proposed Architecture:

We plan to implement a website with a server to present our work. For the client side, we will use the Vanilla Css, and React Framework. Also, we will use some map API. As for the backend, we will use Node JS runtime and MySQL databack.