Project Plan

Provo City Dashboard Website

**Access to Server:**

Details: We need access to a server from Provo City to host the website on.

Dependencies: None

Risks: Provo City does not give us access to a server and we have to host the website elsewhere.

Schedule: Early Next Semester.

Assignments: Assignments will be given for environment set-up at the beginning of next semester.

**Database Design:**

Details: Designing schema for tables and possible ER diagram if more tables are needed.

Dependencies: Categories for charts, Dummy Categories will be used until categories are identified by the client.

Risks: None

Schedule: End of November

Assignments: TBD

**Input Form Questions:**

Details: Design and implementation of input forms for Questionnaires. These forms will be implemented as HTML forms where the input data will be stored in the database for future data visualization.

Dependencies: Categorical information for the charts, until then dummy categories will be selected and used to create input forms.

Risks: Database tables may not correspond to input forms one-to-one.

Schedule: Beginning of Next Semester

Assignments: TBD

**Development Environments Created:**

Details: Determine what languages and technologies we will be using. We will be using html, css, and javascript for the front-end, but the backend architecture still needs to be determined. This includes what language to use for backend code and what type of database to use. (MySQL, MSSQL, etc.)

Dependencies: We need to know what Provo City is using to host their website. What technologies/platforms they are currently using.

Risks: Provo City is using technologies we are not familiar with. This will introduce additional time restraints.

Schedule: Complete by Oct. 31.

Assignments: TBD

**Version Control Created and Accessible:**

Details: Determine which type of version control to use (Git, SVN, TFS, Mercurial) and where to host it (GitHub, Visual Studio Online, Bitbucket, or self hosted).

Dependencies: None.

Risks: None.

Schedule: Up and running by the end of October.

Assignments: Set up by one of the team members. This team member will also give access to other team members.

**UI Design of Layouts Created:**

Details: A simple design that shows the location of elements on the page(s) and the pages themselves. This shows the overall design of the website and what the final version should look like.

Dependencies: None

Risks:

Schedule: Initial design from the design student by the middle of November. Final version by the end of the semester.

Assignments: Design created by the design student.

**UI Design Integration:**

Details: Take the design created by the design student and implement it in code. Create the front-end view of the site and start to integrate it with the backend.

Dependencies: Design created by the design student.

Risks: Unable to get the designs from the design student within a reasonable amount of time. The design created is difficult to implement or can’t be recreated in code accurately.

Schedule: Design finished by Dec. 15. Design integrated by Jan. 31, 2015.

Assignments: TBD

**Homepage:**

Details: Create the homepage that provides general information and the kickoff point for the rest of the website. Take the page design from the design student and implement it in HTML.

Dependencies: The design needs to be completed.

Risks: Page design is not completed on time.

Schedule: Design completed by Dec. 15. Homepage completed by Jan. 31, 2015.

Assignments: TBD

**Category Page Template:**

Details: This is an HTML page that should be used to display the detail data visualization for individual categories.

Dependencies: Homepage - whereas the homepage will hold the general data visualization for all categories and will then link to these category pages.

Risks: A template page may not be necessary because not enough data is gathered and might be viewed as a waste of time.

Schedule: Next semester, probably by February 2015

Assignments: TBD

**Graph Integration:**

Details: Graphs of the data can be viewed on a webpage.

Dependencies: Webpage needs to be designed. Backend needs some data (either test data or real data) that can be used to generate the graphs. Backend calls from the client need to be working.

Risks: Graph library does not contain the type(s) of graphs we need.

Schedule: Mid spring Semester

Assignments: TBD

**Graphs Display Data from Database Correctly:**

Details: The graphs correctly display the values retrieved from the database. The values shown should not be different from the values provided by the database.

Dependencies: The graphs have to be displayed on the page and the database has to be providing the data.

Risks: Graphs can’t display any data from the database.

Schedule: Validation of data must be completed and tested before release to the client. Early March 2015.

Assignments: TBD

**Input Forms for Continual Data Gathering:**

Details: Provide a place where users can enter the latest data that is being tracked. (For example, Fire Department Response Time.) The forms should adapt to whatever type of data the user is entering.

Dependencies: We need to know what information goes on the forms; what fields need to be provided.

Risks: Unable to get information about which fields should be included.

Schedule: Mid Spring Semester

Assignments: TBD

**Input Forms Correctly Save Data to Database:**

Details: Data entered by a user, for one or more of the metrics, is correctly saved to the database.

Dependencies: Pages need to be designed and built. We need to know the fields necessary for data input. The database needs to be designed and built. The backend must be able to communicate with the front end, and vice-versa.

Risks: Data is not sanitized and breaks the database. Any of the dependencies are not implemented.

Schedule: Mid Spring semester - possibly after website is delivered.

Assignments: TBD

**New Database Data is Viewable to Website:**

Details: After data is entered by a user, the new data is reflected on the web page that displays the graphs.

Dependencies: Graphs have to be viewable, database must be editable and callable.

Risks: Possible update errors and a need to roll back updates

Schedule: End of Spring Semester (if time allows)

Assignments: TBD

**Modals for Individual Category Graph Displays:**

Details: A HTML modal to display the graphs for specific categories to replace the template pages.

Dependencies: Homepage integration and database implementation

Risks: Client may not approve of modals

Schedule: After completion and acceptance of release to client

Assignments: TBD