Title: Education Statistics

Client: Dr. Gary Ritter

Supervisor: Dr. Letscher

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Project Description:

Data about schools and the educational system are publicly available and exist in a variety of forms. However, this data is not always easy to access, especially for **students, parents, and policy makers** who are less familiar with the educational system. The goal of this project is to first aggregate such data into a single, simple interface, and then to focus on interpreting this data to inform and answer the questions of specific stakeholders (like students, parents, and policy makers).

Project Overview:

Our project is to take the existing Missouri K12 education data from various websites and databases and organize it into a website that is able to display it in a way that is easier to understand. It should be able to compare data using a menu to pick data a person wants to view. For example, being able to look at the data of a certain district's average teacher income and compare it to another district’s. It should be able to split data by school district or by county. By inputting what stakeholders the user is, the website will pull up data that is relevant to that stakeholder. Our three main stakeholders are **students, parents, and policy makers** . We want to make sure that each stakeholder has a section on the front page that displays the most important data to them. Then have any data that is not being displayed be able to be picked out and then displayed with the appropriate graphics.

Deliverable #1 (Design Doc/ Skeleton version)

1. Technology identification
2. Be in touch with Dennis about creating a server for the website
3. Create Back-end databases using the data we are given with simple add or retrieve queries
4. Present a plan to the client about the technology and databases we plan to use
5. Inform client on features that will be completed and features that will not be
6. Create User Story Document, StoryBoard, and other agile components
7. Create a basic hello world implementation of the website using a hopper student website as the base

Deliverable #2 (Alpha version)

1. Skeleton, a web page that is able to read data from the database and write to the webpage (format does not matter).
2. Basic database with basic website/interface
3. The website can be accessed by another user
4. Start implementing user story elements based on **student** inputs to the website

Deliverable #3 (Beta Version)

Core Features

1. Displays data using different graphics or tables
2. Make the formatting more readable and desirable
3. User is able to control what data they want to see
4. Data is organized such that the most important information is easily accessible for the
5. Test features with a group of users (friends/faculty) and make changes from their feedback
6. Start implementing user story elements based on **parent and policy makers** inputs to the website
7. Make sure the website works for multiple formats including phones and tablets

Deliverable #4 (Final Product)

1. Enhance the website with interactive elements (map of district/county data)
2. Be able to feed the website new data for future datasets
3. Finish creating features from user stories and finish implementation of those stories
4. Make the website look polished on all formats (phones, tablets, desktop)