Full Stack Application Project Proposal

Full Stack: Full Stack is the combination of front end and back end web development, our goal is to make a fully developed website from the front and back end.

Types of languages used and their purpose:

Python: Python is used for mobile and web applications. It is a scripting language that is multi-purpose. It can handle GUIs, objects, and and can run on many different operating systems. We will use this for our web framework.

JavaScript: We'll be using JavaScript for the front end, linked to our HTML and CSS.

Sqlite3: We will be using Sqlite for any databases on the back end that we will be using. It is a C library, that doesn’t require a separate server.

HTML: We will be using HTML to format our front end of our website.

CSS: We will be using CSS to style our website and make it look nice.

Web Frameworks: bottle/flask (probably flask) or node.js for server side, bootstrap/jquery for styling

Also these are the official requirements on the canvas page for the first part, I’d say we easily just develop and apply our unit on modern programming languages as well as implementing databases which she considered covering but didn’t.

Your proposal should contain the following:

* A description of your project, and an explanation of how it integrates or augments course material.

We will be integrating multiple languages, we are applying our unit on modern programming languages. We are also going to be implement databases, which we considered covering in class but didn't.

We are currently deciding between a series of ideas for our site. The current ones proposed are as follows:

1. A web scraping application that pulls posts from various pop culture (Reddit, 9Gag, 4Chan, iFunny etc) websites in order to make an ideal haven for memes and other pop culture posts. Ideally overtime, it would recognize a users desired content to show more of what they like and less of what they don’t.
2. Reddit++. Similar to the previous idea, this would be a site that pulls information from popular sites but with the intent of making them easier to use. People often complain about the terrible UI of sites like reddit and 4chan. This causes both of them to be terrible to use. This site would essentially act as an easier way to interact with these sites.
3. “Show me what I might like”: a website that allows users to to find new things they make like based on stuff they already do. It would be limited to certain forms of entertainment (ie, you’re looking for music you’ll get results about music, movies will give you results related to movies). This would be based on a tagging algorithm and pull information from various established sites and applications like spotify and IMDB.

* Who (if anyone) you will be working with, and how the work will be divided. (It is ok if this changes as the project progresses, but start with a plan.)

Kate Davis - Front end development

Jon Hay - Server Side development

Nick Pierce - Databases

This is just a rough estimate of what we will be mainly doing, We will probably all help each other out in each aspect, this is just what we have for now.

* A brief explanation of what aspects you expect to be technically challenging.

The most technically challenging part of this assignment will be working together as a team, to develop and entire website full stack. We will be using many different languages and have to learn how to get them to all work together. Also, being able to learn and adapt from everyone’s different coding style. We want to make something that is impressive, and that we could show in an interview.

* An explanation of how you will show that your project is correct.

To show our project is correct will compare it to existing websites, and make sure there are no bugs or errors, and that everything works correctly.