

CSC 4610 Project Management Plan

Where in Our City

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Note: This proposal is adapted from the sample proposal that was posted on Moodle. Some of the wording and requirements in the sample proposal were also applicable to my project, so some lines in this proposal are directly from the sample and unmodified.

Introduction

Project Overview

The purpose of Where in Our City (WIOC) is to create a service that allows anyone to ask questions and get honest recommendations from locals within a community. One target user for this product is someone travelling to or moving to a new city who has questions about being a local in that city. For example, a user travelling to a new city and needs to know a good place for someone with curly hair to get a haircut. They can post a question on the city homepage that asks, “Where in Baton Rouge can a male with curly hair get a haircut for under \$30?” The site could be used for questions about services (like the use case above), events, and volunteering. Users will be able to post questions in a city homepage asking about any of these types of categories. A user can ask for a recommendation and will then see a collection of suggestions in one place with personal recommendations from locals who use and know these services, businesses, or events.

Project Deliverables

- User registration
 - Users will create accounts that include a username, password, and default location.
- Login system
 - Users will be able to login to accounts they have created so they can post questions and comments under their username.
- Post Questions
 - Users can post questions about a city in that city’s homepage under a predefined category.
 - Users may only post questions if they are logged in
- Post Comments
 - Users can respond to posted questions via a comment system, which will be visible to all users.
- Browsing
 - Users will be able to browse the site and view questions that have been posted as well as the comments on that question.
- Filter Posts by Category
 - Users will be able to filter questions to only view questions from a particular category. (This is a soft requirement and will be completed if time permits)
- Users will be able to rank posts as helpful. (This is a soft requirement and will be completed if time permits)

Project Organization

Tools and Techniques

Static web content will be stored on an EC2 instance running Apache Web Server. The EC2 instances will run Windows Server 2012 R2. The web content will most likely use the Bootstrap for design purposes and jQuery for to assist with any JavaScript code for user interaction/DOM manipulation. There are currently no plans of having a custom domain name, so the site will only be accessible through the IP address of the Apache Web Server. The Apache Web Server instance will depend on another EC2 instance running Apache Tomcat for Java servlets and MySQL for database functionality. The database will store persistent data created by users. The servlets will interact with the database and return dynamic content to the user. Eclipse IDE will be used to develop Java servlets and the VS Code for most other development purposes.

Project Management Plan

Tasks

1. Create static web content and templates
 - Description: The general look of the website without the dynamic interactions.
 - Deliverables: HTML, CSS, JavaScript/jQuery code that provides a general overview of the site.
2. Create user registration
 - Description: The database and servlet functionality needed for user registration integrated into the web page.
 - Deliverables: Database table that models users and Java servlet code that executes user registration.

3. Create user login

- Description: The servlet functionality needed for user login.
- Deliverables: Java code that manages the login.

4. Create Post Functionality

- Description: The servlet functionality needed to allow users to post questions.
- Deliverables: A Java servlet that posts questions to a database table for posts.

5. Create Comment functionality

- Description: Functionality for users to add comments to posts.
- Deliverables: A Java servlet that posts comments to a database table for comments.

6. Add browsing functionality

- Description: The posts/question page should dynamically load data from the database and display up to date questions and comments
- Deliverables: Two Java Servlets. One to retrieve questions from the database and one to retrieve comments from the database. That data should then be displayed on the relevant HTML page.

7. Write project report and prepare in-class demo

- Description: Project report as described in the project description appendix and a demonstration of the delivered product in class.
- Deliverables: The project report and a presentation in class.

Timetable

Week of October 15th: Start and complete tasks 1 and 2.

Week of October 22nd: Start and complete tasks 2 and 3

Week of October 29th: Task 4

Week of November 5th: Task 5

Week of November 12nd: Task 6

Week of November 19nd: Task 7

Week of November 26th: Finish any unfinished work