Statement of Work

Introduction/Background

This project will result in a web site built for the University of Louisville College of Business Computer Information System program that will facilitate a mentor/mentee program. The goal of this website is to offer support for new and existing students to be able to communicate about schoolwork, projects, and professional issues. The website will allow users to register a profile, log in, and view and update profile information that can be used by other users to match as a mentor/mentee pair.

Through analysis done by students in CIS 320, it was decided that this solution could help stem the attrition of the graduation rate of students enrolled in the UofL CIS program. Having a mentor program in place could help students feel supported through the program when faced with difficulties, as well as facilitate a sense of community and networking.

Our team consists of six students from the CIS 420-01 class: Lawend Abdulbaqi, Bailey Flaherty, Cameron Little, Jonah Oliver, Hannah Parker, and Kelly Woodworth. We will work in one week sprints to complete this project within the 15-week time frame specified by the length of the semester.

Scope of Work

Our group will create a web application that will consist of a user interface and back end. User information will be stored in a database. Our team will expand our knowledge of web development through the design of the front end and user interface, connection with a functioning back end, and storage with our database. By the end of the semester, our team will have a more comprehensive knowledge about what goes into developing a web application with an agile development environment.

Period of Performance

Because of the time limitations of the semester, our project will be completed by December 2, 2019. We will have a working project by week 13 of the semester, allowing for two weeks of testing in order to ensure that our project functions without major issue. Because of this timeframe, we will be setting weekly goals to meet as the semester progresses in order to track our progress and ensure we are meeting meaningful milestones.

Place of Performance

We will use classroom time to plan and develop our project in addition to any other required time spent outside of class. Meetings will take place at the library on campus, at home remotely, or at a meeting time specified by the team members as necessary.

Work Requirements

In order to successfully stem the attrition of the CIS program, the following requirements must be implemented:

1. *User Enrollment - each user should be able to enroll as either a mentor or mentee based upon their status as a student or an alumnus*
2. *User Authentication - users will be authenticated by the admin to ensure that they are either a current student or alumni*
3. *Mentor-Mentee matching - mentees will be able to add mentors and vice versa*
4. *Communication channels - users will be able to communicate via direct messaging*

5. *Functional Calendar - users will be able to set important dates/schedule meetings on a calendar*
6. *Crisis Reporting - users will be able to report crisis to the system admin*
7. *Diagnostics Reporting - admin will be able to analyze system data*
8. *Email Blast - admin will be able to send email blasts*

Via the combined integration of:
1. *Web server – AWS Lightsail*
2. *Cloud storage – AWS Lightsail*
3. *Database – WP Integrated Plugin*
4. *CMS – WordPress (WP)*
5. *Domain registration - GoDaddy*

Schedule/Milestones

Iteration 1:
Week 7
- *Team Formation*
- *ERD designed*
- *Design Layout*
- *Domain Name purchased*
- *AWS LightSail web host purchased*
- *WP Installation*
- *WP Plugin Research*
- *HTTPS Certificate*
- *Prototypes created*

Iteration 2:
Week 9
- *Database Plugin integrated*
- *Home Page created*
- *Navigation Menu created*
- *Login Page created*
- *Enrollment Page created*
- *Contact Page Created*
- *Profile Page Created*
- *About Page Created*

Iteration 3:
Week 11
- *Database Tables created*
- *User Enrollment Form/Plugin integrated*
- *Communication Plugin integrated*
- *Login Form/Plugin integrated*
- *SMTP Contact Form/Plugin integrated*
- *Calendar integrated*

Iteration 4:
Week 14
- *System testing*
- *System debugging*
- *System rollout*

Acceptance Criteria

This project will be deemed successful when it has a functional user interface, allows users to register a profile, login, and update their profile information. Users can communicate with each other and choose a mentor/mentee. The project will also be able to be built upon, adding features that were requested in CIS 320 – such as a donation portal – at a later time. Dr. Barker and Professor Karimi will work together to evaluate our project and assess its functionality.

Other Requirements

The project will contain a login, which will protect individual user information. However, there will need to be ongoing security measures in place in order to protect users of the system. Beyond this semester, the project will need to be maintained in order to continue being functional and useable by users.

ACCEPTANCE

Approved by:

Jonah Oliver
Date: 9/8/19 _____