Software Development Capstone Topic Approval Form

The purpose of this document is to help you clearly explain your capstone topic, project scope, and timeline. Identify each of these areas so that you will have a complete and realistic overview of your project. Your course instructor cannot sign off on your project topic without this information.

Note: You must fill out and submit this form. Space beneath each number will expand as needed.

Any cost associated with developing the application will be the responsibility of the student.

INFORM MENTOR:

Potential use of proprietary company information: (Y/N)

Company information will not be used for this project.

ANALYSIS:

1. Project topic AND description: A GUI-based desktop scheduling application for businesses that will include customer information, business reports, and the ability to allow users to add, edit, and delete customer and appointment information. The application is protected by MySQL user logins.

2. Project purpose/goals: A global consulting organization wants to upgrade their current scheduling and reporting software. The system they use now is outdated and no longer works efficiently. The company uses Microsoft Windows 10, so a native desktop application seems to be the best fit for their needs.

   There are lots of scheduling applications available to use on the internet today, but none of them meet the company's needs. One of the features our application has that others don't is the ability to display text in the computers localalized language, allowing users from different countries to use the application. Our application also implements the ability to conduct and preview business reports. This application will greatly improve the speed of the overall system and help to maintain efficient business operations.

DESIGN and DEVELOPMENT:

1. Application Type (select one):
   - Mobile (indicate Apple or Android)
   - Web
   - Stand-Alone

2. Programming/development language(s) that you will use: Java, FXML, SQL

3. Operating System(s)/Platform(s) that you will use: Microsoft Windows 10, IntelliJ, JavaFX, SceneBuilder

4. Database Management System you will use: MySQL

5. Estimated number of hours for:
   i. Planning and Design: 40 hours
   ii. Development: 30 hours
   iii. Documentation: 60 hours
   iv. Total: 130 hours

6. Projected completion date: June 15th, 2022.

IMPLEMENTATION and EVALUATION:

1. Describe how you will approach the execution of your project:
   - Write down what the application will be capable of doing, and what it can't do. After writing the tasks down, I would plan the timeframes in the individual tasks to better userstand the scope of the project.
   - Create a low fidelity wireframe of the application GUI (either on paper or a software application) to visualize the layout of the screen(s). Repeat this step until the organization / customers find the wireframe that fits their needs the most, and then create a high fidelity wireframe to help application development.
   - Consult with the organization to find a development plan that satisfies their needs.
   - Develop and test the application in accordance with the organizations development plan. Repeat if needed until development has been completed.
   - Finalize the project and write a reflection of what went good, what went bad, the software development plan used, and what was learned through the development process.
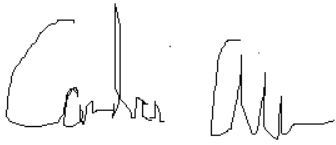   - Submit the application.

   ☑ **This project does not involve human subjects research and is exempt from WGU IRB review.**

STUDENT SIGNATURE

James Blankenship

By signing and submitting this form, you acknowledge any cost associated with development and execution of the application will be the responsibility of the student.

COURSE INSTRUCTOR'S NAME:

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COURSE INSTRUCTOR APPROVAL DATE: 5/10/2022