

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) N

ANALYSIS:

1. Project topic AND description:

The purpose of this Capstone project is to create an application to be used for tracking and scheduling customer appointments for a global consulting firm, CoWork Inc. The application will be desktop based and intended for use by our consulting team. This team will require the ability to create, read, update and delete the appointments of customers. Customer appointments will store the appointment date, start and end times, and type of appointment in a MySQL database. The completed application will allow users to search for appointments based on those criteria, as well as broader reports broken down by those same criteria. The application will also fill the business need of not allowing appointments to overlap or be scheduled to fall outside of standard business hours.

2. Project purpose/goals:

The main business goal that this application will meet is to create a functional, user-friendly desktop system which allows the consulting team to create, organize and track customer appointments to meet with said team. Authorized users will be able to perform the following tasks:

- Allow secure access to the application with a provided User Name and Password pair
- Create, view, update and delete customers
- Create, view, update and delete appointments
- View all currently scheduled appointments, or view subsets of appointments that fall within the next 7 or 30 day period
- Create reports showing the number of each type of appointment per month, the schedule of each consultant, and a list of upcoming appointments for the current date

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: C#

3. Operating System(s)/Platform(s) that you will use: The completed application will be developed using Visual Studio 2022 and will run on the Microsoft Windows 10 operating system

4. Database Management System you will use: MySQL
5. Estimated number of hours for:
 - i. Planning and Design: 20 hours
 - ii. Development: 70 hours
 - iii. Documentation: 20 hours
 - iv. Total: 110 hours, or approximately 2.75 weeks
6. Projected completion date: Project estimated to be complete by January 21, 2022

IMPLEMENTATION and EVALUATION:

1. Describe how you will approach the execution of your project:
 - a. Initial planning of the required features and functionality of this application may include wireframe mockups of design elements, user story creation, and the determination of database needs to create the required tables.
 - b. Utilize Visual Studio 2022 and many existing libraries to create the structure of the application.
 - c. Using the initial planning documents, create the required database tables for data storage as well as necessary classes to be used for customers, user, and appointments within the application.
 - d. Write the required code for the CRUD (Create, Read, Update and Delete) operations of the application, so that users, customers and appointments can be created, stored, and modified as needed.
 - e. Accounting for the user stories in the design document, create a Graphical User Interface (GUI) to show application data to the user, and allow the user to interact with the data stored in the database.
 - f. Implement reporting functionality, including reports with multiple row results and displays.
 - g. Provide documentation of all application functionality.

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

STUDENT SIGNATURE

Brian MasonS

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:

COURSE INSTRUCTOR APPROVAL DATE: December 31, 2021
