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) **No**

ANALYSIS:

1. Project topic AND description: **The project will be a stand-alone java application that operates as an appointment and customer organizer for use in a sales capacity for Widget Sales Unlimited, LLC (Widget Sales). The primary users will be salespeople who can add new customers and schedule their appointments. There will also be an admin class of user also able to create new primary user accounts, as well as gather aggregate reports on customer and appointment data across the program.**

2. Project purpose/goals: **Widget Sales currently operates across 3 countries, with salespeople responsible for maintaining their own customer appointment schedules and subsequently submitting reports to management. The purpose of this application is to both assist salepeople in more efficiently organizing their leads, customers, upcoming and completed appointments, as well as provide management with a centralized database where they can obtain with an overview of the entire sales team and their activities at any time.**

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, SQL**

3. Operating System(s)/Platform(s) that you will use: **Windows 10 Pro, IntelliJ IDEA 2021.2.2 (Community Edition), Java SE JDK 17.0.2, JavaFX SDK 17.0.2, MySQL, MySQL Workbench 8.0.28, MySQL-Connector-Java 8.0.25.**

4. Database Management System you will use: **A MySQL database hosted on AWS.**

5. Estimated number of hours for:
   i. Planning and Design: **10hrs**
   ii. Development: **40hrs**
   iii. Documentation: **20hrs**
   iv. Total: **70hrs**

6. Projected completion date: **12/20/22**

IMPLEMENTATION and EVALUATION:

1. Describe how you will approach the execution of your project:

• **The project will be built using a waterfall methodology.**

• **First, analze the business needs of Widget Sales and determine the requirements and scope of the project.**

• **Determine what the deliverables will be and establish a timeline for project completion.**

• **Create mockups of the application and create the java class and database erd diagrams.**

• **Develop the application.**

• **Test the application.**

• **Repeat testing and debugging until project requirements are satisfied.**

• **Create all required supporting documentation for the project.**

• **Deliver the application and supporting documentation to Widget Sales.**

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

STUDENT SIGNATURE

_____*Gregory Farrell*_____

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 2, 2022