

850/900

This assignment is an individual assignment, collaboration is prohibited.

You may use your textbook, class handouts, lecture notes, and labs.

All code submitted must be your original work.

- ❖ For this assignment you have the freedom to choose your own project with **instructor approval**. Your chosen project and feature list must be approved by your instructor.
- ❖ Make sure to spend adequate time polishing your app and fixing bugs. Focus on having an app that works well, looks nice, is user-friendly, and has all the important features.
- ❖ Consult with your instructor on a regular basis to get input on professionalism and polish.
- ❖ There are a few different deliverables required for this project.
 - Project Proposal Document due **April 25th**
 - Must use the provided template.
 - All requested information must be filled out.
 - Must include screen mockups for all features

Project Presentation on **April 29th**

Slides must be pre-approved and tested by **April 28th**

Project Background

Explanation of Business Need

Purpose of Project

Brief Overview of Features

Brief Overview of Proposal

Live Demo of Website

Finished Project uploaded to GitHub by **April 29th**

Code must be committed and pushed to git repo by **April 29th** for grading and student must confirm that instructor can download the code

- ❖ **Program must implement at least one custom class and object per UML diagram _____/200pts**
 - Objects must be implemented as a foundational part of your solution
 - Classes must demonstrate proper encapsulation per the UML diagram
 - Must demonstrate one of the following class relationships
 - Inheritance, Aggregation or Composition
- ❖ **Solution must implement programming concepts including variables, custom methods, branching and loops _____ / 100pts**
- ❖ **Solution must use arrays or collections to store and manipulate data_____ / 100pts**
 - Must use a List<>
- ❖ **Solution must implement multiple windows_____ / 100pts**
 - Data must be sent from one **window to another -50pts**
- ❖ **Key Features Implemented from Final Project Proposal: _____ / 100pts**
- ❖ **Implement Exception Handling for the following scenarios: _____ / 100pts**
 - Data Validation on CRUD operations
 - Database errors
- ❖ **Microsoft SQL Server Database _____/100pts**
 - One table limit for data operations.
 - Create**
 - Application allows user to insert entities.
 - Search**
 - Application allows user to search for entities.
 - Update**
 - Application allows user to search for entities.
 - Delete**
 - Application allows user to search for entities.

Professionalism and Polish _____/ 100pts

Most valuable client features have been prioritized and are implemented in a bug-free and usable fashion.

Application does not contain any **typos or misspelled words.**

All error messages are displayed in a user friendly manner.

Use the main screen as a menu of sorts to guide users towards the primary functions of the application.