CSCI 3381 OO with Java Project 2

Graphical User Interface (GUI) front-end for data management back-end

Overview:
The program will create a Graphical Interface as a continuation of Project #1. Your GUI will allow for a user to interact with the data stored in project 1. When the application is run, data will be read from a text file. The user of your application will be able to view, add, edit and remove all the types of data. When the user quits the application, the (possibly changed) data is written to the same text file.

This project encourages your creative exploration of various GUI components. There will be a few mandatory components and other possible components:

Mandatory:
- Attractive layout of components and ease of use
- Appropriate Object-Oriented design.
- Appropriate use of the Data Back-End from project 1
- Drop Down List dynamically populated with data from the Data Back-End

• **At least 8 different (unique) items possibly:**	
○ Picture / Graphics ○ Animation ○ Label ○ Text field ○ Radio button ○ Check box	○ Slider ○ TextArea with Scroll bars ○ Buttons ○ Dialog Boxes ○ Extra Panels ○ Menu items

A solution for Project 1 is provided for you if you need it. You are welcome to use this or your own. At the very least you should look at my project's file reading and writing for a robust solution.

Project Objective: in completing this project, you will
- Enhance your understanding of Object Oriented design.
- Enhance your understanding of Graphical Interfaces in Java
- Be Creative

Submission & Expectations:

Like project 1, you will share your project with me via GitHub. You will also submit an importable jar file and data files to Blackboard. Finally, you will submit a recording of you running your project. This is your test case. During the run, you will display all functionality. If the recording is too large for Blackboard and/or GitHub, share it with me via Google Drive.

This project is to be completed with no help from any other student. You can ask me for help. You may use code from the internet as long as you include a citation from the website. You will need to be able to explain how the code works to me. It is very important that you understand and abide by the policy concerning programming projects. Remember, your personal honor and integrity (not to mention understanding the material) is far more important than your grade on the project.

Project #2 Rubric – 100 points

	Unsatisfactory (0%)	Developing (50%)	Satisfactory (75%)	Exemplary (100%)
Design – (20 points)	Not submitted	GUI does not implement many components. Difficult to use.	GUI is less easy to use and/or is missing components.	GUI is easy to use and contains at least 8 different (unique) components. Attractive layout.
Implementation - (20 points)	None	Object – Oriented design elements are mostly missing	Frame and Panel mostly use Data Back End correctly	Frame and Panel appropriately use the Data Back End of Project #1
Implementation - (40 points)	Not submitted	Component contains compilation errors or does not implement methods	Component contains no compilation errors but does not fully implement the project requirements	Component contains no compilation errors and implements all project requirements
Testing – (10 points)	Not submitted	No "Testing Plan"	"Testing Plan" is missing some details.	Includes systematic "Testing Plan"
Documentation (5 points)	None	Missing most documentation	Missing some documentation	Includes: Name, course, method descriptions, variable descriptions and explanation of complex sections of code
Submission via GitHub (5 points)	5 points – properly shared private repository		0 points – submission via Blackboard or Email	

What to Submit via Blackboard:

- Importable jar file
- Test Plan recording