GUI

A screenshot of a computer screen

AI-generated content may be incorrect.

1. Briefly describe the artifact. What is it? When was it created?
   1. The artifact is an appointment management system that I originally created in CS-320: Software Testing, Automation, and Quality Assurance. It was created as part of an assignment to learn the core Java concepts including object-oriented programming, and basic file handling. The original version was a terminal based version that allowed users to add, view, and delete appointments through a text-based interface with substantial testing done for the project overall. The goal of the project was to apply foundational concepts in object oriented programming while emphasizing testing.
2. Justify the inclusion of the artifact in your ePortfolio. Why did you select this item? What specific components of the artifact showcase your skills and abilities in software development? How was the artifact improved?
   1. I chose this artifact for my ePortfolio because it offered me an opportunity to show growth in front end by creating a working GUI for this project. I am lacking experience in this area so it was something I knew I wanted to do as part of an enhancement for this class. To improve this artifact, I transitioned it from a command line interface to a graphical user interface using Java Swing. This change greatly enhances the program as most users would require a graphical user interface over a command line interface for real world applications. This enhancement reflects a more complete and user-focused version of the original tool.
3. Did you meet the course outcomes you planned to meet with this enhancement in Module One? Do you have any updates to your outcome-coverage plans?
   1. Yes, I believe I have met the course outcomes that I targeted in module one. With this enhancement I have shown my ability to use modern tools in computing by applying Java Swing to create a functional GUI. I also met outcome 3 by making intentional design choices such as the layout of the GUI. I don’t have any updates as of now, but maybe in the future adding color and making it look more appealing would be a great option.
4. Reflect on the process of enhancing and modifying the artifact. What did you learn as you were creating it and improving it? What challenges did you face?
   1. Enhancing this artifact taught me how to apply GUI principles to an existing backend without compromising the existing code. I learned how to work with Java Swing components like Jframe, Jtextfeild, Jbutton, and Jlist and how to handle events to update the interface. One challenge I faced was configuring the project environment in my IDE as I hadn’t touched this project in years. I also ran into issues with understanding how Java Swing handles layout but worked my way through the issues to create a layout I was satisfied with. These challenges improved my debugging skills, and my environment set up skills which I do feel are important to always be improving on.