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CS 499: Computer Science Capstone

Southern New Hampshire University

Instructor: Gene Bryant, M.S.

3-2 Milestone

In this milestone, the artifact that was chosen which was meant to satisfy the requirements of Software Design and development was based off work done in a previous class, CS 250, where students were tasked with building a Java Desktop program to run on the Windows Platform, featuring an application that had places to visit, and images showcasing the places of interest. The artifact was created in the month of February 2024, and was successfully compiled and ran without any compilation errors. The reason for the inclusion of this artifact in my ePortfolio, is because it gives me the ability to demonstrate skills learnt in that class, and also to demonstrate my ability to port a program written for a particular operating system, to a different system, while maintaining the language that was used for writing the program. The java programming language is popularly known for its portability, such a trait is something that someone could tap into, while making their program available for different users utilizing different platforms. The improvements made for the artifact can be seen in the way that the program was written to mimic the look and feel of the previous program that was written. Also, the native controls of the android SDK were used for building the interface of the program in order to ensure that the program will run as fast as other comparable programs built with the android SDK.

The course outcomes were demonstrated in this artifact, in the sense that some of the outcomes were demonstrated by the changes that were made to the artifact. The first program outcome that states that environment that programs are built in should be for diverse audience, be it mobile users, web users, or desktop users, was satisfied by this artifact. Also, porting this program to the android operating system satisfies the outcome that tasks us with having a security mindset while designing and writing our computer programs. The android operating system is known to be very secure, making it more secure than its windows desktop counterpart. I learnt how meaningful it is to make written programs more portable to any platform. Its very important to write programs in a manner that encourages portability, and also in a language that is suitable for porting code from one platform to another. The challenges I had in this process was in going from a large screen to a small one. I had to make sure all the controls that were needed to be built for the small screen fitted properly. Overall, I believe the artifact enhancement was a great success.