Sunshine Mason

CS 499 Computer Science Capstone

SNHU

09/21/2025

3-2 Milestone Two: Enhancement One: Software Design and Engineering

The artifact I chose to enhance was from a prior class CS 320 Software Testing, Automation, and Quality Assurance. This was a Java file that I created back in September of 2024, since this course I have learned a lot more in the year it has been. This being dated back a year is why I chose to do the enhancement on this to see how my capabilities have grown. I’ve added this into my e-portfolio because it shows my familiarity with the Java programming language which is widely used in the computer science industry. This also shows how I’m familiar with object-oriented software patterns. I improved the artifact by changing it from an ArrayList into a HashMap by changing around the code to make it better equipped to be a HashMap. I also integrated added comments into my code to make it known what exactly is going on in each area. Currently based on the feedback I’ve received from my professor, I believe I’m meeting the requirements for the capstone for the enhancement from module one.

Based on the reflection looking into my code I learned a lot because I’ve personally never changed anything from an ArrayList to a HashMap until this course, but doing so gave me a better perspective on what I can likely experience in the future.