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Dr. Fitz

CS499

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Module 5-2:

1. Briefly describe the artifact. What is it? When was it created?

The artifact being enhanced is the CS340 Grazio Salvares CRUD that was also the targeted artifact in the previous enhancements which was developed in 2024. The enhancement, developed in 2025, is an attempt at a MERN stack application which allows users to alter, login, and view information from a database.

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?

I had selected this project because full stack development is one of the areas that interested me the most. I am leaning more towards a career in game development, but full stack was another option that I had taken interests in. I feel as though I did alright with creating this application, though there are clear errors such as the lack of modularization, but the overall foundation and operability is there. The ability to connect a database with the project shows the ability to enhance and alter code shows strength in the ability to work with databases as a whole as connecting the frontend operation to the backend operations takes a lot of work to accomplish. I was able to connect to a database, implement features that should alter the database, and cleaned up previous issues which all show the ability to work with and manage databases. I was able to

make the data display on my table which shows strength in ideas like data analysis as being able to iterate and read large amounts of data is a needed skill.. This artifact was improved as it was converted into a complete full-stack application which allows for the dynamic usage of data

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?**

While I did not meet the initial goal of allowing for ensuring privacy, as one idea I had was to implement a login and logging for actions taken by users, I do think I am on the right track. As an update, I have all of the outcomes done from my view besides developing a security mindset as the other milestones have addressed the other outcomes.

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?**

My main issue was yet again time constraints as I had done somewhat poor during the planning phase which led to me being a bit lost on how to start this enhancement. Despite this, I learned a lot about building a project from scratch, such as using libraries to help with the foundations of a program, the importance of organized code, and the usefulness of online resources such as official MongoDB documentation to see how to properly connect my front/back-end data. The hardest part for me was understanding how to actually get the project to work, which took a long time for me to begin to understand. However, as I began coding more and more, I began to increasingly understand the concepts which led to the final completion of the enhancement.