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CS320 Module 8

Summary and Reflection

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In Project Two, I explored different software testing approaches and applied testing strategies to help ensure that software functions correctly and meets requirements. The project focused on validating input, checking system behavior, and identifying potential defects before deployment. Through this work, I began to better understand how testing supports software reliability and overall quality.

During this project, I learned how important it is to test boundary conditions, validate data, and verify that requirements are enforced correctly. Testing is not just about finding errors; it is about making sure the program behaves as expected under different conditions. I also gained a better understanding of how automated testing improves efficiency and consistency by allowing tests to run repeatedly and detect issues early.

The first few weeks of the course were especially challenging for me due to illness, which caused me to fall behind. I submitted early work without complete test coverage percentages and later had to redo those assignments. Although this was frustrating, the process of revising my work helped me better understand testing requirements and the importance of thorough validation. Through trial and error, I became more comfortable reading error messages, fixing test failures, and improving code coverage.

This experience strengthened my problem-solving skills and helped me develop persistence when debugging issues. By revisiting and improving my work, I gained a clearer understanding of how proper testing prevents larger problems and improves software reliability.

Overall, this project helped me understand the importance of thorough testing and reinforced the role testing plays in producing reliable software. The skills I developed through this process will help me write more dependable code and continue improving my testing practices in future coursework and professional work.