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CS-499 Computer Science Capstone

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3-2 Milestone Two Narrative

The artifact is a harry potter text-based adventure game. Players are able to navigate between different rooms in Hogwarts to collect items (Horcruxes) to defeat Voldemort. This artifact was created as a project in in IT140, towards the start of my computer science degree. Enhancing this artifact will demonstrate my growth from then to now. I selected this project for my ePortfolio because it was a simple yet fun project that I can now use to show my ability to develop and enhance software using my full-stack development skills. To improve this artifact, I converted it into a web application by building a Flask API with JavaScript-powered UI. The improved UI includes Bootstrap styling, buttons, game updates, and instructions. This makes the game accessible, visually appealing, and engaging for players.

I met the course outcomes I planned to meet with this enhancement. I completed the Software Design and Engineering category by demonstrating an ability to use well-founded and innovative techniques, skills, and tools in computing practices for the purpose of implementing computer solutions that deliver value and accomplish industry-specific goals. Through this enhancement I learned a lot about integrating Flask APIs with a front-end interface. I faced a few difficulties designing and implementing UI, but was able to fix these issues.