For Milestone Two, I chose to enhance Project 3, a software design and engineering artifact that I originally created to demonstrate key skills in developing robust and efficient applications. Project 3 involved building a data inventory application, and it was initially completed during CS 360. The artifact is particularly relevant because it highlights my ability to design, implement, and optimize software solutions while adhering to best practices in coding and architecture.

The inclusion of Project 3 in my ePortfolio is justified by its strong alignment with the outcomes of the Computer Science program. This artifact showcases my expertise in user interface design. For instance, the project required careful consideration of filtering functions and ensuring a clear-cut user interface. To enhance the artifact, I implemented the planned corrections and improvements discussed in the code review. These enhancements included adding a search function and correcting some code that while still worked, enhanced the operability of the program. These changes significantly improved the artifact's quality and demonstrated my growth as a developer.

The planned enhancements for this milestone were designed to meet the course outcomes established in Module One. Specifically, I aimed to address software engineering and design. By completing these enhancements, I ensured that the artifact met industry standards for software development and showcased my ability to identify and resolve technical challenges effectively. During the enhancement process, I identified opportunities to improve functionality further and communicated these updates with my instructor to refine the final deliverable.

Reflecting on the process of enhancing and modifying this artifact, I gained valuable insights into the importance of iterative development and code reviews. For example, while implementing the search function, I encountered challenges such as inappropriate filtering. Addressing these issues required leveraging tools and techniques, such as static code analysis. These experiences deepened my understanding of effective debugging practices and reinforced the value of attention to detail in software engineering.

Overall, the enhancements made to Project 3 reflect my ability to design and refine computing solutions that solve real-world problems. This milestone not only highlights my technical skills but also demonstrates my commitment to continuous learning and professional growth. By including this artifact in my ePortfolio, I aim to showcase my readiness to tackle complex software development challenges and contribute effectively to the field of computer science.