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[CS-499-H6771 Computer Science Capstone 22EW6](https://learn.snhu.edu/d2l/home/1118298)

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

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

The artifact that I’ve chosen for this enhancement is the pet class originally written in the java language from my IT-145 course which took place about a year ago. The pet class was created for a pet check-in project which end with an application that would a set of standard information about the animal and which kennel it would stay in.

1. **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 selected this artifact and have chosen to include it in my ePortfolio because, form what I remember from this project it included many elements s of the software engineering /design process which included writing pseudocode to map out the logic and code flow, creating a flowchart for design logic, and finally taking each of these integral precursors and using them to create the code. I chose to enhance the entire class because there wasn’t one portion of the file that I would honestly justify an enhancement. I chose to improve this artifact by rewriting the original java code in the python language. I chose to make this enhancement because I think it showcases my ability and knowledge of the python language.

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1. **Did you meet the course objectives you planned to meet with this enhancement in Module One? Do you have any updates to your outcome-coverage plans?**

Yes, I think that I have met the objectives for this enhancement however rewriting the original java code into python was not part of my original enhance but to be honest there was much depth to the enhancement plan. I would like to update my outcome-coverage plan with my new enhancement plan of rewriting the pet check-in class code form it origin language of java to python as it seemed to increase the speed of compilation by a few seconds.

1. **Reflect on the process of enhancing and/or modifying the artifact. What did you learn as you were creating it and improving it? What challenges did you face?**

When reflecting on my enhancement of the pet check-in artifact for the IT-145 course, I’ve learned that all programming versatile in their right, but python is a very clean and efficient language to use in pretty much any area of application. The only challenges I faced during this enhancement converting some syntax such as the definitions and calling the attributes, so I main referred to documentation as well a lot of trial and error.