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CS-499

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### **Description of Artifact**

- The artifact I have chosen for the software engineering enhancement is my final project from CS-340, which is a course I have taken at Southern New Hampshire University.
- This project uses JupyterDash, MongoDB, and Python to build a full stack webpage.
- It pulls data about animals in a shelter from MongoDB and displays them in a webpage.
- It also includes a pie chart and radio buttons the user can interact with.
- The artifact was created in February of 2024.

### **Inclusion of Artifact**

- I decided to include this artifact in my ePortfolio because it is a complex project with many components working together.
- I knew rewriting the program using JavaScript and HTML would be very challenging, yet rewarding.
- This is a great opportunity to learn more about web development. I have done a significant amount of work improving the project, but I still have some work left.
- The artifact will be improved because it will be easier to navigate the results and more interactive elements will be included.

### **Enhancement Plan**

- My enhancement does meet my plan from Module One.
- In Module One, I said I would convert my project from Python to HTML and JavaScript, which I have done successfully.
- There were many challenges I faced.
  - One challenge was formatting the table. I did not have too much experience with CSS,
- This project taught me a lot about how HTML, JavaScript and CSS work together to design sophisticated web pages.