For my databases part of the ePortfolio, I elected to use my final project from the CS 340 course at SNHU. I think that this showcases that I could work with technology that was previously unfamiliar to me and ensure that the project was done in a clean way that fit the language and technology best practices, at least as far as I was taught with the course materials. This was not my proudest achievement in the project but I feel that it left me with room to improve enough to do something with a code review for this assignment. The purpose of this project was to create a small web app using Bottle, Python and MongoDB which would pull stock data and would provide a listing of 5 top custom stocks as well as a moving average. This assignment goes through all types of ‘CRUD’ operations and serves as a good demonstration of web API writing and working with databases.

My first thing I needed to do for this was to make sure that this worked outside of the Codio environment that we worked in for the project. To do this, I had to pull the json file and install MongoDB on my system, as well as dependency Python packages that were used. Once it worked as is, I documented functionality within comments in the code, cleaned up the logic and added more error checking. Lastly, I ran tests to make sure that everything works and this covered my initial iteration of the code review. Once everything was verified, a few more small tweaks were found, but I kept the changes minimal due to how simple the initial system design was.

Further improvements could be done upon this, such as adding in tests, writing more extensive documentation and adding in more features and routes to the code. I would like to do these if I have more time before the project’s final due date, and if not, at least give myself time to do this in the future to make sure that this portfolio is a good demonstration of my understanding of what a proper completed project should be. With more work always to do on any software project, I’m glad that this can be put on my GitHub for future usage.