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CS 499

Module five: 5-2 Milestone Four: Enhancement three: databases

In this narrative for my enhancements of category three: databases. I will briefly describe what the project is and when it was created; describe why I choose this selection for my ePortfolio, what specific components the artifact showcases about my skills and abilities and how it was enhanced. I will also address whether I meet the objectives I planned with the enhancements and finally I will reflect on the process of enhancing the artifact.

This project was taken from my IT 315 class – Object Oriented Analysis and design and was created/completed in October of 2019. In that class I learned to create communication diagrams and sequence diagrams for programs. Although I did not code anything in this class, I learned that one can create a diagram that will basically explain to a developer what you want the code of the program to achieve. I choose this program for my ePortfolio because it shows some backend knowledge as well as frontend design, as I want to follow down the frontend developer path I do see myself eventually heading into the path of full-stack developer. The project before my enhancements was just a sequence diagram and communication diagram, there was no code of working program at all. This project after completing it I realized that it covered all three categories of the final project of this class, so I really ended up doing way extra than I needed to.

I used several things for this category; I used HTML, CSS, and JavaScript to create the design of the pages that the user will interact with. These pages are the staff/student login which will allow them to add/delete etc. classes. I used python to write the scripts for the database side and used MySQL for the database itself. But what I was stuck on was how to actually get

everything to work, this part I really had no idea because my classes used a provided environment to run these databases, we were tasked with creating. Therefore, I say that this involved a lot more than I originally thought it would, I used XAMPP to run the program and python and flask for the framework. I must say it was a pain getting XAMPP to work and installing everything needed, although I am sure that if I researched a little bit longer I would have found another method that would have been quicker. At the end of it I am happy with the outcome and the work I put into it.

I believe I met the course objectives that I planned to meet with this enhancement because I created the database for the sequence diagram. I do not have any updates for this program in mind currently I am happy with how it came out as is at the moment. Working on these enhancements was not a walk in the park, I encountered a lot of stress trying to figure out how to make it all work. I found this because when I looked back at notes and tried to recall my memory of the classes I took on MySQL and databases; in the class we used learning environments that ran everything for us. I personally did not connect the dots on how to do it myself until now. But at least I was able to find many video tutorials and documentation online that helped guide me to getting this to work the way I wanted it to work for the moment. I am sure that down the line I will add more to this and make it more functional than it currently is. I learned many things during the completion of this project as it involved so many things. Using flask and python for framework was new to me, I have never used python in this way before except for one class and I have never heard of flask until researching how to complete this project. Although there was so much to do, I feel that it only seemed that way because I have never done something like this before and the more I continue to do it the quicker I will become and the simpler it will get.