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CS 499

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Milestone Three

The artifact that I am going to enhance for milestone three is the final project for CS 360. We created an app that allowed a user to track their weight based on the information they input. Firstly, the user would have to log into the program or sign up to the program if they did not already have an account. All this information in stored inside a database that the app uses to check if the user already exists. Once the user logs into the app they would then come to a screen that would display the weights they have previously into the app. It would also allow them to add new weights whenever they wanted, as well as delete and update previous entries. Again, all this information would be stored inside a database that would be connected to their profile. This app was first created at the beginning of April 2020 and was completed for submission in June of 2020.

This artifact is being included into my ePortfolio because it displays my understanding and knowledge of databases. It shows that I have the skills to implement the use of databases to help create stronger code in my programs as well as create long term storage for variables. This artifact shows my skills in databases because I am having to create code that adds information to the database. Alongside adding information to the database, I am also creating code that allows the user to delete information from the database. As well as find information inside the database for them to use as a reference. This artifact is being enhanced by the addition of allowing the user to update a weight if they accidently input the wrong information into the database. The function will allow the user to input an ID, weight, and a date. After the user inputs that information the database will then update the information for that ID to what the user has entered. The other enhancement that I am creating is I am allowing the user to delete their profile they created in case they are done with using our program. This will allow users to delete their account so that the information stored inside the app will also be deleted. Allowing for the user to have the knowledge and security that their information is not vulnerable to hackers.

I have met the course objective that I created for myself in Module One. I have enhanced the app and allowed for the user to update a weight, that they might have accidently input incorrectly. As well as allowed for users to delete their profiles if they are done with using the app. In the future I would like to update the app more and allow the user to update their password from the app because correctly they cannot do so. As well as improve any other functionally that I feel will help improve the database in the future.

As for the process of enhancing my artifacts database, I began with doing a code review and looking at what aspect of the database could be improved on. Once I completed the code review and identified those areas of improvement, I quickly started writing code that would improve them. Once those pieces of code were written I included them into the program and tested to make sure they were working correctly and improved the functionally of the program. For what I learned from improving my database was that even though you think you might have created something that can’t be improved or created something that meet the requirements that were presented, a program can always be improved. I realized that even though this program functioned that it needed aspects to help improve, such as allowing the user to update their weight if they input it incorrectly or allowing a user to delete their profile. As for challenges, it was difficult to determine how I wanted to update the database, because their was a function that already existed inside the library that would allow for items to be updated. It tested it and it did not work the way I wanted the code to function, so I had to start from the beginning and determine exactly how I wanted the code to work. Once I overcame that challenge the rest was straight forward for finishing up the enhancement.