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CS-499 Computer Science Capstone

10/04/25

5-2 Milestone Three

Enhancement Three: Databases

1. Briefly describe the artifact. What is it? When was it created?
   * This was originally a client/server application made in March 2025. It started from building a database for an animal rescue center that could communicate with a client-side code and allow the client-side to work with the database.
2. 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?
   * This was selected as it demonstrates databases and how they are constructed within the backend and the communication between the client side and the interaction between the two. I want to improve that interaction as well as making a more cohesive user-friendly design to what the application uses. By taking the general idea of what was used and use it towards some everyday items that I was using when helping my brother organize and use a system of spreadsheets to organize his sports card collection, I am working on making the client-side and hope to have the end result to show the connect between the two and how the database would work.
3. Did you meet the course outcomes you planned to meet with this enhancement in Module One? Do you have any updates to your outcome-coverage plans?
   * I think I have started to meet the course requirements I originally set out but have not completed them, I want to make sure that I use the best standards and have a clear and visually appealing code that meets the principles we have learned through the terms and as well as showing that I can take the things that I have learned and apply them to other things that aren’t as structured to get a result that I think, meet the criteria.
4. Reflect on the process of enhancing and modifying the artifact. What did you learn as you were creating it and improving it? What challenges did you face?
   * I realize that not everything has to be super complicated to achieve the outcome that you intend to create. The CRUD method being used meets many different aspects and can give a great idea of moving towards a great design of a application or project to meet different requirements. I think this has shown that moving in steps can greatly increase the likelihood of things working as intended and limiting the problems and issues that can arise when building too much and having problems compound on one another. Overall, these enhancements have given great experience, persistence, and resolution to applications and shown different ways to solving issues that I had not considered and will provide tools for my future career and employment.