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CS 499

4-2 Milestone Three: Enhancement Two: Algorithms and Data Structure

1. Briefly describe the artifact. What is it? When was it created?

The artifact I am using for my enhancement two is the Jukebox application from my CS 310 class. It is a collaboration of musical artists, songs, playlists from myself and classmates. This was created originally by my professor in 2020 I believe, but students have added to it each class he has taught.

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 algorithms and data structure? How was the artifact improved?

I picked this artifact because it was something I enjoyed adding to/making in my CS 310 class. The components for this artifact showcase team collaboration, it showcases the organization of the albums, playlists and musical artists just like playing music on Spotify or Pandora. The artifact has improved by adding my own choice in music and my own playlist. It helps store everyone's songs, playlists and artists throughout the project.

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?

My goal was to be able to add my own playlist, songs and artists. I wanted to add my own songs and pick some of my favorite artists. I spent half a day working on this project and struggled a lot when I first began. After many hours, I was able to successfully add my own playlist.

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 tried this project 6 different times on 3 different computers. I struggled a lot beginning this project. I spent half a day trying to figure out where I was going wrong and finally, at 11 pm, I got my project to finally do what was needed. I was able to add my songs, collaborate with my team and add my own playlist. When I first added my own student profile to link to my own playlist, I was unable to link my login information to my playlist. I realized when I entered my profile information, it was linking to another student. I had set my profile number to the other students instead of creating a new profile login number. After I corrected this, my whole program ran correctly.