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Computer Science

CS 313: Intermediate Computer Programming

Individual Project Reflection

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Individual Project Reflection

Reflection

Being part of the class sector that has not done java before made this project extremely challenging and demanding. I have to go back to the beginning of lectures to digest one after the other what has been taught so far so I can have proper knowledge of concepts before diving into the project itself. The next thing was to take a careful look at the project description. Understanding the project itself is one thing, and the process of doing it is another, then completing it is the ultimate priority. After reading the project description for the umpteenth time, I broke it down into bits, what I had to do first, then what next, to gauge my progress.

The breakdown was, first, to create classes for the various databases with essential methods. The second was to read each database file. I used an interface to simplify my work instead of reading each file in a separate class. So using an interface, each database class implements my interface called "ReadContent" I had wanted to name it "Readable" because I learned it is preferable to name interfaces using adjectives. However, I realized "Readable" was a keyword in java resulting in the name "ReadContent." The third thing was to find a valid route between the two cities. Which I was able to complete.

For the valid route between two cities, I decided to implement it in the route class; there, it takes a source and a destination, and the program prints out the valid routes between those two cities. The next item was to find an optimal route between the two cities. This is where I had to use the haversine formula. I tried to understand what I had to do, but this task was extremely challenging. I couldn't wrap my mind around it, so it was unfortunate I couldn't implement it. I understood that it had to take the latitude and longitude and use the formula to generate the optimal route.

Individual Project Reflection

Overall, this project was one of a kind. This is because it challenged me to solve a complex problem that required intuitive analysis and comprehension. So in the process, I tend to comprehend most of the syntaxes in java, and I am now used to creating classes, reading files, and handling errors. This is an incredible achievement on my part. As the saying says, "Practice makes perfect."