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Professor Paul Nevill

ITS474 Capstone II

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February Journal for Capstone II

This is more or less a diary. I recorded what we have done so far in class, and as we progress, I try to write everything that I've seen, done, and learned in class.

1st Week

It was the first day of class, and Professor Nevill discussed how he would grade us. Also, we just discussed what we have so far for our project. He reminded us what our responsibilities are and added a task, "Testing" (which is a crucial step that we can't miss, for this is where we test if the program is working well or not and if it has bugs or not.) This will help our application run smoothly without any problems. If this weren't brought up, I would have forgotten how crucial testing is.

2nd Week

Monday, January 23, 2023 - Steffany and I had a Zoom meeting with Professor Nevill at 11 am. Professor Nevill had set up the database system that we will use, which will be in AWS's Appstream. We will be using SQL server management studio. He made sure that Steffany and I could log in and showed us where and how we would upload our tables. Thankfully, I was familiar with it since we used it, if I'm not mistaken, in our Database Design class.

Wednesday, January 25, 2023- I started doing our database. I uploaded all of our columns and some of the rows. I intended to do just the independent tables. However, I had so much fun doing it, so I also did our dependent tables. I just had trouble making our dependent tables which had foreign keys. I didn't know how I was going to set some of the columns as foreign keys, so I tested things around, and I was able to figure out how to do them with the table designer and went to the relationships. Thanks to w3schools!

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Steffany and I showed our work to the class... Thankfully, Professor was happy that we started right away on it.

3rd Week

We discussed what we have done so far and what is still in the works... Professor Nevill showed us what was happening in our coding and explained to us the different python files and what it's doing. Programming is something that I love and hate because of how difficult it is, but it also makes me feel accomplished when my program runs. He showed us what is happening now in our backend programming. We also talked about updates with the testing group. We also finalized the testing form.

4th Week

I had to leave early for my eye check-up. But so far, we don't have anything to do yet.

5th Week

We tackled how Karinna was able to connect the database. However, she was struggling with it as well. It was more on connecting the table or inserting data into the table. We're trying to figure out how to connect the database to python itself.

6th Week

Initially, we were going to use SQL Server; however, what happened was that we had to switch to Sqlite. I have no qualms with that since we had experience using it in our Programming classes, but we still have a problem due to primary and foreign keys.

We found a solution, and Steffany and I had to work on putting the tables and rows on Dbeaver.

I am also happy with how far we have come in this capstone project. There were definitely problems that we had to fix and resolve, and kudos to our Programming team, who kept pushing through, and of course, to Professor Nevill, who never stopped guiding us. Seeing the website, the UI, and the login is already a great accomplishment.

7th Week

Monday, February 27, 2023 - Steffany and I had promised Professor Nevill that we would finish the database today. I did not have any problems putting on the independent columns and the data itself; however, when Steffany started doing the dependent tables; problems began to arise. The programmers and database team started a group chat to try to figure out what the root cause was.

Tuesday, February 28, 2023 - I tried logging in to AWS to figure things out, but I couldn't even edit the names, delete primary and foreign keys, or even change the data type. I am not sure what the issue is. I honestly thought we would not have any issues, but problems always show up when you least expect them. It is inevitable, and this is common when doing a program or a big project like this. I hope we can pass this hurdle soon since there are still so many things that we have to do.

Well, another update, I logged in and decided to start from scratch. I deleted all the tables and decided to work on them. I first started with the dependent and independent. And I noticed that Dbeaver is not reading VARCHAR, STRING, or INT. For all of our columns that have data types of VARCHAR or CHAR, I changed them to TEXT which is one of the supported data types of this database administration tool. As for INT, we had a couple of INT data types on some of our columns, so I changed them into INTEGER instead, and it did work. Everything seems to be working now on our end. Hopefully, it would work as well on the programming side.

At 8:50PM I received a message from Karinna saying that everything was working on the program. Good news, indeed! I was initially impatient because things were not working out, but what I really needed was to clear my mind and do what was best, which was to restart. Despite me taking hours to finish the database, it did work. And this reminds me of this saying "Try and try until you succeed!"