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CIS 2976-55 (Emerging Technology)
Final Summary Report
Due: May 5, 2021

My project has been successful so far. I have been able to solve each part that I have tried to accomplish. Also, the hours for the first milestone seem to be correct. I allocated 96 hours for reverse engineering, creating models, and solving equations. As of right now, I'm at 50.25 hours of total work time for this milestone. I have worked on a half dozen projects of this caliber in the past and find starting with the most complex part of solving the unknown parts first helps the project move along. As the project grows, it can give some hindsight of what needs to be potentially changed.

If there were a failure of any sort, it would be the timeline; however, it was more of a pipe dream if that was my main task. Other tasks from work and homework made it hard to work no more than 10 hours a week. When I created the timeline, I was hoping to spend 32 hours on it a week; however, not the case. I will have a lot more time in about a week after I finish this semester. Mobile Application Programming has been challenging in short. Even though it's a 3 credit class, I have spent 10 to 15 hours a week on it.

Even though the project has been a success, for the most part, each task completed took some time to figure out how to code and implement. As for diagramming and modeling, that was more straightforward. One of the issues I had that took me about 30 minutes to figure out was how to connect the database to a SQL connection. After that, I started to try to hard code a chart into ASP.NET from watching videos and reading tutorials on how to do that; however, none of the ways mentioned worked. After several hours, I notice a chart feature in the toolbox. I just dragged it onto the page's design and found out it has quick setup features that took little coding.

The next issue I encountered was getting bootstrap 4 to work with the website for the CSS layout. When the project is built from the web form template, the site is set up with Bootstrap 3. I first

thought that I would have to code in the folder location and connect each file that way. However, after watching a video on including it, I found out that it was as simple as dragging the file onto the HTML page for the ASP.NET directory on the right. One lesson learned from this is that ASP.NET doesn't use a direct file directory for these files.

The task that took the most time out of all the troubleshooting events was having a DateTime picker work correctly. Shawn Mitchell, the LSC programming teacher, tried to help me for an hour or so, and we weren't able to figure it out. I discovered a workaround having the user type in the number relating to the month, day, and year which saved as a variable that got plugged into the date variable for the appointment date. For this task, I spent about 6 to 7 hours before coming to a resolution. I plan to change the input boxes to select boxes so there less chance of an error. The reason for this is that I have come across people that don't know the month number that equals the month name.

A quirk that I discovered in using the SqlCommand within ASP.NET to perform an INSERT INTO statement is that the columns need to be mention. I initially tried adding the values in the same order as the columns are in the table; however, I got numerous errors until I placed the columns and the input in the same order I wanted within the INSERT statement.

The second most challenging task to figure out was how to get an SQL query to transform into a variable. Figuring this out was very crucial. It allows me to pull data from different tables and use them as I wish. This step took about 4 to 5 hours to figure out. It was figuring this out that allowed me to get my first expression transferred and usable. Knowing this information now will help move quicker on future expressions.

As for the state of the project, it has been an uphill battle to get going; however, I'm starting to see the first plateau and make advancements faster. It's still in the first milestone of reverse engineering, documenting, modeling, and creating diagrams. The first milestone is the longest milestone

projected at 96 hours which seems on par for what needs to be done. To me, this first milestone is the hardest also. I have completed 50.25 hours on this project and see it being about 256 hours which is the allotted amount for completing the project. To add, I am now moving into converting expressions that will be attainable easily with being able to create a variable from an SQL query. Figuring out these more complicated parts first is how I handle many projects like this and seem to work.