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6/30/2024

CS470 Final Reflection

https://www.youtube.com/watch?v=_VrT7BTQO6Q

This course will help me as I began professional work because this class has taught me how to develop as a developer. I feel that this class has taught me some of the tools that are out there. I feel that it has gone beyond what other classes have by teaching me not just one tool, but a couple of different tools. The difference between docker and AWS and all the different ways you can use it. Between MongoDB and DynamoDB is just the tip of the iceberg and a start to how each tool can be good in some situations. This allows me to be able to then begin to think what other tools there are. I see how Many IDE options there are and then think which one might fit my style let me try a few. I have found a sense of curiosity which I feel is a big piece of being a developer. This class has also helped me to strengthen my skills as a problem solver. I have faced a few issues when developing this project and it has made me have to come up with ways to solve those problems. This allows me to come up with ways to solve it. I feel that this plays into my strengths as a developer. I think my strengths are that I don't let something beat me. I am always willing to learn. I am always willing to try something new if it helps me to solve a problem better and more efficiently than before. I think that my skills as a developer is that I am skilled enough to know where I may need help in. I think that knowing your own limits is good. I think that helps me to know when to ask for help and when to seek help. I think that it allows me to be flexible in a team. I think that the best role for me is someone who helps in a team setting but helps while learning. I think that I can be a tester and someone who checks code. I believe that I can even program some pieces with the help of mentors or partner code. I want to learn, and I have the desire to learn and discover as I grow.

I think that I could handle scaling by saying that we would have local storage for a certain period. That period will be however long local storage is a cheaper option for us. I would want to make sure that it is the most efficient and the way that most benefits our long-term goals for the client and company. Error handling would be taken care of by making sure that there are repeatable results that all display the same thing and not just one result that would be the outlier in a group. I would make sure that there is a limit to where errors can be found in our program and how it is scaled. The way that I would predict the cost is by seeing how many calls our website has per month than using the model of how much per call amazon AWS or another service is per month from there I could then see which one would be the better option for us that month. Did we spend more money than it would be for amazon. If the answer is no, then we stay with local service and if the answer is yes then we start migrating over to amazon AWS. I would scale us as we needed to be scaled.

The most predictable of the two as far as cost goes would be containers. This is because you pay for each container. This is a flat rate whereas the per call rate can change day by day and depends on how many people need your website each day. Some of the pros and cons would be what cost it is that we need to stay under. This is how much will local storage change as we move from year to year. The pro for this is that as things go up, they should go up across the board. The con is that one might go up faster than the other. Then as more calls are needed or more instances there is does the container cost outweigh the per call cost. There is a fine line there. There is a line between when something will become too much for us. There is the idea of what about our continued growth will that ever reach a point where we need serverless instead of containers. When do we start preparing for that. The pro is that serverless is unlimited growth, while the con is that we may never grow big enough to warrant paying for serverless. That will be a thing to monitor as we grow and see when we cross that threshold and if we stay above that threshold for a sustained period.

The idea of elasticity and pay-for-service play a role of uncertainty and prosperity. They play the role of what we strive for a website to be. We want it to be limitless and to never slow down the pay-for-service role would do that and do it well. It would allow us to grow beyond what we have into what we can be. The elasticity of the program is determined by how well we can adapt ourselves and our program to reach these heights and new ones as it grows. We have the flexibility to use any of these services while also having the ability to switch up and down depending on the needs of our program.