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CS 470 Final Reflection

<https://youtu.be/flicHBBxRmU>

In this class we learned how to use the Docker and Docker Compose to create containers for our application which we then moved to Amazon AWS. This was a great learning experience that has made me think about different ways this could be utilized. I like the idea of having services running separately and being able to connect with them but not interfering with them so if something goes down you could focus on fixing that and not everything.

If I were to scale the system we made, I would define more policies and roles so that as our team grew, and more people were added to the system we could better control who had access to what. To help with error handling I would add more method response http status codes and where they came from. That way we would know what area to begin looking for errors. I would then make sure to log these errors to try and find patterns to something happening.

Predicting cost between containers or serverless solutions is a broad scope. If we look at containers, we know what resources we currently have and how much they are going to cost to run and in theory that cost should not change. However, in a surge of traffic we may lose business if we can't keep up with demand, which costs revenue. On the other hand, we could have different amounts of money each time we are billed from a serverless solution. We could try to predict what the average cost would be by looking at how much traffic there was and what we expect to happen in the future, but this cannot be a perfect number. Knowing that all traffic to the site will be handled and the only reason we should have a higher bill is because of more traffic is a good way of looking at it though.

As a beginner software developer, I feel I understand the basics in the world of programming. I understand the logic behind making things work and how to get from one point to the next. I think one of my biggest strengths is knowing that I don't know it all and there is still a lot to learn.

I enjoy trying to make any program work. It is like trying to solve a puzzle to figure out where something went wrong. I have also found that enjoy doing back-end development. Moving raw data around and getting information to where it needs to go. Another role I enjoyed was testing. Writing test code to make sure that every line of code was tested and that it all had sound logic and functionality. It turned into a game to figure out what inputs I needed to have so that I could make sure all paths were taken.