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CS470 Final Reflection

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Presentation link: <https://www.youtube.com/watch?v=vIBBDxhKRO0>

Experience and Strength

Having been working as a software developer for five years, I was able to learn lots of thing from this course. My previous work was done using traditional server and hosting. This course gave me another perspective regarding how the backend of the web can be created using AWS. This was very interesting. The security, elasticity, and the database service provided by AWS is amazing and I think I would likely do my new project using AWS in near future.

In future, I might look for a job that requires AWS knowledge because I realized that the AWS can be extremely efficient and easy to create an app.

Planning for growth

Microservices is the future of web development. Tradition monolithic applications are often hard to rewrite, the code can be extremely complex. Instead of using monolithic code base, Lamda and serverless provides alternative solution that is microservice architecture.

AWS provides log facilities for displaying error. From the app side, the error can be handled by sending user friendly message back to the client in case of fatal error without exposing the internal code or stack trace.

As for the cost of using the AWS, it can be predicted by the amount of users. As the users of the app go up, so will the cost because the lambda will run more frequently.

I think serverless is more costly because with container, at least we have some flexibility as how much resource the container has and how much it will need. As for serverless, the cost will direct hit you as the number of requests goes up.

I would say that if an app is small to midsize, I think going to cloud would be perfect. However for extremely large app with complex business requirement, it wouldn't be a good idea. The deciding factor will depend on the requirement of the business. Complex business unit specific app like policy system for insurance company would not be a good choice for cloud serverless type.

Elasticity and pay-for-service plays a huge role. It directly impacts the cost of running the app. If the app has so many users, a owner may ending paying lot more compared to traditional. However for midsize app, this may not be a the case.