

Lauren Chandler
Due 12/18/2022
CS 470 Final Reflection
Link: <https://youtu.be/rxEGKd4X7Fg>

Final Reflection

Experiences and Strengths:

- This course has helped me to learn how both the front end and the back end of a web application functions. As a software engineer, being able to market myself with these skills means that I will be even more valuable to potential employers when I look for a new job.
- My strengths as a software developer are really more on GUI work, in my opinion. I don't work with web applications daily, but I don't see why that wouldn't transfer if I decided to switch to web applications since I am a Java programmer currently and JavaScript felt so very similar.
- I really enjoy working with the front end of things and creating GUIs that a user will interact with. These are the roles I hope to continue to work with in any job I move to in my career.

Planning for Growth:

- Going serverless feels like a very smart thing to do for a lot of companies. The ability to scale as needed – and only pay for what is used – is something that can be incredibly useful for start ups trying to keep costs low. To keep those costs low, it will be best to predict usage and select the best database (such as MongoDB or DynamoDB) possible. Errors are bound to occur. To handle these errors, whether they can be planned for or not, AWS Step Functions that respond with “conditional logic based on the type of error that occurred” can be used. (Amazon.com, n.d.) All of this in mind, containers are probably going to be more predictable in terms of cost.
- In planning for expansion, things to consider would be the ease of scaling a product – i.e. will scaling the product create problems for any applications that depend on this product, will it cause errors/issues in the product itself, etc.—whether scaling is really going to be cost efficient or if it's going to be super expensive, and if it's actually a feasible option for the application. Not all applications, due to many different reasons such as security concerns, are able to be expanded and scaled.
- Elasticity and pay-for-service have the potential to play big rolls in planning for future growth. Like mentioned earlier, they may be able to help get smaller companies and start ups off the ground more affordably. They have the potential to keep costs low for products and applications that aren't useful at certain times of the year as well. The possibilities are practically endless in helping plan for future growth.

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References

Amazon.com. (n.d.). *How to Handle Errors in Serverless Applications with AWS Step Functions*.

Amazon Web Services, Inc. <https://aws.amazon.com/getting-started/hands-on/handle-serverless-application-errors-step-functions-lambda/>