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Assignment name: CS 470 Final Reflection

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Project Link: <https://youtu.be/nGhCJ9iGI-Q>

Final Reflection

- **Experiences and Strengths:** Explain how this course will help you in reaching your professional goals.
 - What skills have you learned, developed, or mastered in this course to help you become a more marketable candidate in your career field?
 - To me I think the one skill I have mastered is creating Lambda functions, I have some programming knowledge so being able to adjust code to meet the needs of applications as well as initial setup is something I found came second nature after learning to create the first one. It is a repetitive process which fits into my way of thinking.
 - Describe your strengths as a software developer.
 - My strengths include attention to detail, minimizing risks, planning and communication.
 - Attention to detail: I am by nature OCD about following standards. If there is a layout that is standard for that language like first letter capital or indentions then I try to intentionally follow that to the smallest detail
 - Minimizing risks: This is meant to code in small batches, review and make sure it works. I also tend to start new even if something is similar where I could copy and paste and then change some details to make it work . If it is a lot of code then I avoid this process as it tends to lead to missing a name change and creates a long review process. If I do copy and paste I make a backup regularly and evaluate as I go to make sure that I am making changes where I need to make them.
 - Planning and communication: I feel these are important for any development work. Understanding what you are being asked to accomplish and then planning that development lifecycle is important as it sets expectations for you and your client.

- Identify the types of roles you are prepared to assume in a new job.
 - I would be a jr developer if I started a new role in the tech industry. I have some knowledge of older systems which is helpful, but with the world going to the cloud, I would be limited in skill sets. This class along with other classes have given me a lot of opportunities to pursue any area I would like to, like mobile or web application development.

- **Planning for Growth:** Synthesize the knowledge you have gathered about cloud services.
 - Identify various ways that microservices or serverless may be used to produce efficiencies of management and scale in your web application in the future. Consider the following:
 - How would you handle scale and error handling?
 - For error handling, I think the best course of action is to create logs. That way you can review and see where issues have arisen. I would also continue to test and evaluate the system so that It can be more efficient at the function level
 - For scalability, I think there would have to be more robust work to allow for more data information and more interaction between the system and the user. Grouping of questions for instance, more of a category so people can refine a search.

 - How would you predict the cost?
 - Forecasting cost is pretty simple actually. I would scale it based on predicted use. If it costs X to run an application for Y users then that average can be scaled to meet the needs of the users.

 - What is more cost predictable, containers or serverless?
 - Containers are more cost predictable as you control more aspects of them. Serverless puts you at that mercy of the vendor, as they may not warn you of

price changes. A contract can protect you but for only the length of it.

- Explain several pros and cons that would be deciding factors in plans for expansion.
 - Pros:
 - Increased users
 - Possibility of increased revenue
 - New Market outreach
 - Cons:
 - Increased cost for expansion
 - Increased need for staff to continue to develop and enhance
 - Resource limitations and attention to detail
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- What roles do elasticity and pay-for-service play in decision making for planned future growth?
 - Both are important and should be considered. Your current system elasticity needs to be determined so that you can understand it's limitations. You may be able to absorb the current increase forecasted with spending any more money.
 - Pay-for-service depends on if the service is tiered for users or not. If Tier one is for 100 users and you only have 60, you can absorb a lot before having to move to the next tier. You need to understand what that increased cost will mean to the overall budget.