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Final Reflection

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SNHU

Youtube Link: <https://youtu.be/AdimkDOhaCg>

Experiences and Strengths: Explain how this course will help you to reach your professional goals.

1. What skills have you learned, developed, or mastered in this course to help you become a more marketable candidate in your career field?

The full stack development class showed me the basics about how to use create containers to migrate and then create a serverless web page through AWS. These skills help me understand better one of the most important services out there for cloud development.

2. Describe your strengths as a software developer.

My strength as a software developer is that I am open to learning new things and going deeper to understand how a system works. Plus, I am good at researching, something I did a lot in this class.

3. Identify the types of roles you are prepared to assume in a new job.

I think I am interested in system architecture. I would like to build and create web pages and be the architect of them.

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:

1. How would you handle scale and error handling?

One thing that can be done is to use the AWS Step function to create a serverless flow that will support and handle the errors. The step functions can be configured to respond with conditional logic based on the type of error. We can use the IAM roles to grant access to the resources to the AWS Step functions. Another thing is to test our error-handling workflow.

2. How would you predict the cost?

Using AWS tools for analytics can help us decide what direction we should go and how to predict the cost of our service. We can see usage and from there predict what the cost should be. We can determine where we need more resources to have a balanced system.

3. What is more cost-predictable, containers or serverless?

If it comes to predicting how many resources we will use and how much will cost, I think containers will have a fixed price and serverless will have a cost based on the use we put in our resources.

4. Explain several pros and cons that would be deciding factors in plans for expansion.

We need to consider how much computing power we will need, how much storage we will use, and what DynamoDB resources we need. This will give you some information on costs, that way you can know if it is cost-effective to plan for expansion.

5. What roles do elasticity and pay-for-service play in decision-making for planned future growth?

Pay-for-service can grow with time as more users stay active in the service. As long as it is running it will charge, and that can get expensive with time as more and more people try accessing the page. Elasticity will allow growth as more users/clients connect without the need to permanently grow the amount of services needed.