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CS-470: Full Stack Development II

SNHU - Instructor Johnson

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Week 8 - Final Reflection

Final Project YouTube Link

https://youtu.be/ItnbuKnnZI8

Throughout this term, we have learned how to move a local MEAN Stack application into the AWS Cloud. The experience has given me extensive knowledge in areas of computer science that I previously knew very little about. This includes the AWS Cloud Architecture and its plethora of microservices, which include Lambda, S3, API Gateway, & DynamoDB. I was also introduced to Docker, Containerization, and creating Container compositions using YAML files. All of this prepares me for moving into positions that will require me to have extensive knowledge of complex systems, and the technologies that build them. These roles could range from Systems Architect to Software Developer, or perhaps be geared more towards Administrator and DevOps positions.

Microservices and a serverless architecture are extremely useful in situations where the future is unpredictable. Allowing the customer access to unlimited potential, while only charging them for used resources, allows a wider variety of ideals and technologies to take shape. With

this type of model, many people will be able to afford to build applications that otherwise wouldn't have had the time, money, or knowledge to build an entire system from scratch.

Elasticity & pay-for-service are excellent options for developers who are uncertain about the amount of traffic they will bring to their application. The downside to all of this for the developer is that they retain very little control over anything except their application code. Everything else is handled by the cloud provider, which leaves a lot of responsibility on their end concerning your intellectual property. This might work well for very large businesses and fly-by-night programmers, but someone more invested in their project might want a lot more control over the inner workings of their application.