Josh Gagnier

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CS 470 Final Reflection

Link: https://youtu.be/sexXellR4X4

- **Experiences and Strengths:** Explain how this course will help you in reaching your professional goals.
    - o What skills have you learned, developed, or mastered in this course to help you become a more marketable candidate in your career field?
    - o Describe your strengths as a software developer.
    - o Identify the types of roles you are prepared to assume in a new job.

    As an aspiring developer, I am still undecided on whether I want to pursue a career in software engineering or full stack development. This course has helped me to better understand the skills needed to become a full stack developer, while also investigating cloud computing. Previous I had no knowledge or skills of how to utilize cloud computing and this was a great way to migrate into that skill set. Currently I feel I have better back-end skills, and that helped make learning this new skill set easier.

- **Planning for Growth:** Synthesize the knowledge you have gathered about cloud services.
    - o 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?
        - ▪ How would you predict the cost?
        - ▪ What is more cost predictable, containers or serverless?
    - o Explain several pros and cons that would be deciding factors in plans for expansion.
    - o What roles do elasticity and pay-for-service play in decision making for planned future growth?

    For future growth of this app, or other applications, additional skills would need to be used such as user authentication, and other ways of securing connections. The cost of service and be predicted using the information provided by AWS. The cost would need to be a range, where the ends of the range are the upper and lower limits of the predicted usage of the services, which may vary depending on the users using the application. AWS is great for scaling needs. Error handling may be an issue was more services are connected, however with more automated testing, these errors can be reduced. Expansion of a service would be dependent on cost-benefit of time and effort vs. growth of the app as well as the underlying business. Expansion of serverless vs servers is more heavily weighted towards serverless being of the winner as it takes away from stresses of maintenance and upgrading. The serverless model also allows to only pay for what is used, while not wasting excess computing or storage with traditional servers.