Wesston Reed Mccollum

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CS 470 Final Reflection

Link to project presentation: https://youtu.be/SjK95SpeS6Y

1. What skills have you learned, developed, or mastered in this course to help you become a more marketable candidate in your career field?
    a. This course has offered me an in depth understanding of not only a full stack application, but also what it means to use serverless computing. There are several factors like API integration, Security, and database handling that I leaned from this class that I am actively using towards a career in Software Engineering.
2. Describe your strengths as a software developer.
    a. I thrive in areas where I can break programs safely. I am more than willing to push the limits of an application to find where it can be slightly improved to handle edge cases.
3. Identify the types of roles you are prepared to assume in a new job.
    a. I am actively working towards an internship in Software Engineering, where I would be my knowledge on database leverage and integration.
4. How would you handle scale and error handling?

    a. Error handling is a case-by-case basis, utilizing the error codes given to deduce and edit the code in ways that will either overwrite the use case that caused the error or deny the use of entry altogether. For scaling, it would depend on the service I am using but would mostly rely on using a cloud service that would scale automatically and/or caching information.

5. How would you predict the cost?
    a. Cost would be calculated based on predicted usage versus actual usage, so I would maintain a service that has a flat rate for a base amount of usage that will dynamically alter the price to offer more usage capacity.
6. What is more cost predictable, containers or serverless?
    a. While containers would be less predictable as you would not only be paying for the containers but all the microservices and architecture it takes to run them.
7. Explain several pros and cons that would be deciding factors in plans for expansion.
    a. Pros: More dynamic usage, more data capacity, more services

       Cons: Higher cost, more maintenance, more error handling and integration

8. What roles do elasticity and pay-for-service play in decision making for planned future growth?
    a. Elasticity and pay-for-service are enormous factors in large scale applications, as not having to maintain underlying architecture and dynamic usage capacity can allow for more users on an application and more reliable usage.