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CS 470 Final Reflection

https://youtu.be/ChOK58e2m3Y

Experiences and Strengths

Throughout this course, I have gained a better understanding of full stack web
development in the cloud, which is crucial for modern software engineering. I have worked with
API development, cloud services deployment, database management, and DevOps practices.
These skills are essential for creating scalable, efficient, and reliable web applications. This
comprehensive training has significantly enhanced my problem-solving abilities, adaptability,
and collaboration skills, making me a well-rounded developer. I am better prepared to take on
roles such as Full Stack Developer, Cloud Engineer, or DevOps Engineer, where I can leverage
these skills to contribute effectively to any development team.

Planning for Growth

To ensure the future growth of my web application, I plan to utilize microservices and
serverless architectures. Microservices will allow for independent development, deployment, and
scaling of different parts of the application, enhancing manageability and scalability. Serverless
solutions, such as AWS Lambda, will reduce operational overhead and enable automatic scaling
based on demand. For handling scale and error management, I would implement auto-scaling
groups, load balancers, centralized logging, and monitoring systems. Predicting costs will
involve using cloud cost management tools and regularly optimizing resource usage. While

serverless architectures offer cost-effective solutions for variable workloads, containers may provide more predictable costs for steady, long-running processes. Balancing these options will be crucial for efficient and scalable growth.