SIT323/SIT737- Cloud Native Application Development 4.3HD: Building a cloud native application-development plan & timeline

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Overview

This task requires you to create a comprehensive list of vital steps for developing a cloud-native application, and outlining a timeline for your plan that will span throughout this trimester.

- **Requirements of the application:** The first step in developing a cloud-native application is to define its requirements. This includes determining what the application should do and what features it needs to have. It is also important to consider the user experience and the scalability of the application.
- **Choose the cloud platform:** Once the requirements are defined, the next step is to choose the cloud platform. The choice of cloud platform will depend on factors such as the cost, scalability, and security requirements of the application. It is important to research and evaluate different cloud platforms before planning.
- **Architect the application:** After choosing the cloud platform, the next step is to architect the application. This includes designing the overall structure of the application, including the data architecture, network architecture, and application architecture.
- **Implement the app:** Once the application is architected, the next step is to implement it. This includes writing the code, setting up the database, and configuring the network. It is important to use best practices for coding and deployment to ensure the stability and security of the application.
- **Testing:** After the implementation is complete, the next step is to test the application. This includes unit testing, integration testing, and system testing. It is important to test the application thoroughly to ensure that it meets the requirements and is free from bugs and errors.
- **Deploy and maintain:** Finally, after the testing is complete, the application can be deployed to the cloud platform. It is important to monitor the application after deployment and address any issues that arise. Ongoing maintenance and updates are also necessary to ensure the continued success of the application. As a Deakin student you have access to the google cloud platform for your deployment.
- **Timeline:** The timeline for these steps will vary depending on the specific requirements of the application.

In addition to these steps, it may also be necessary to consider factors such as security, compliance, and performance optimization.

Submission Details

Once you are done, submit a pdf file (Max 2pages) identifying your app development plan and timeline.