Portable Web App Design – Student Template

Instructions:

In your group, complete the sections below to design a portable web application that can run across AWS, Azure, or on-prem environments. Be prepared to present your solution to the class.

# Scenario Summary:

Briefly describe the type of application you're designing (e.g., e-commerce app, chat service, blog platform).

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# 1. Service Choices

What frontend and backend frameworks will you use to maximize portability?

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Will you use microservices or Backend-as-a-Service (BaaS)? Why?

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# 2. Data Storage Options

Which database type fits your app—relational (PostgreSQL, MySQL) or NoSQL (MongoDB, Cosmos DB)?

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Would a Backend-as-a-Service (Firebase, Amplify) help simplify your backend? Why or why not?

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# 3. Deployment Strategy

Will you use Docker containers? What services will be containerized?

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How will you deploy and orchestrate your containers? (Kubernetes, Docker Compose, etc.)

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What IaC (Infrastructure as Code) tools or CI/CD pipelines will you use to manage your environment?

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# Presentation Notes (Optional):

List the main points your team will present.

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