Assignment: Cloud Adoption Case Study

Course Code: CSE4267

Title: Cloud Adoption Analysis for ABC Corp

Total Marks: 10

Submission Deadline: 24-10-2024

Case Study: ABC Corp

ABC Corp is a mid-sized company specializing in mobile app development. Recently, they secured a project to create a data-driven fitness application with real-time analytics. The project requires:

- A webserver to handle user requests.
- An **analytics server** to process large volumes of user-generated data.
- A database server to store structured and unstructured data securely.

However, the company faces the following constraints:

- 1. Limited office space for hosting new servers.
- 2. High upfront costs for purchasing high-performance servers.
- 3. Lack of skilled IT staff for managing on-premises infrastructure.
- 4. Tight project deadlines that do not allow for lengthy setup processes.

To overcome these challenges, the company is considering adopting **Public Cloud laaS** for its infrastructure needs.

Assignment Questions

1. Cloud Suitability Analysis (3 Marks)

- Explain why Public Cloud laaS is the most suitable solution for ABC Corp's requirements.
- List two benefits of adopting Public Cloud laaS in overcoming the organization's constraints.

2. Resource Estimation (3 Marks)

- Identify the types of resources ABC Corp would need to deploy on the laaS platform (e.g., servers, storage).
- Provide examples of how cloud features like scalability or pay-as-you-go pricing can benefit ABC Corp's project.

3. Challenges and Solutions (2 Marks)

- Highlight two potential challenges ABC Corp might face when using Public Cloud laaS.
- Suggest practical strategies to mitigate these challenges.

4. Alternative Models (2 Marks)

- If ABC Corp later needs a more customized platform for developing future projects, which cloud service model (laaS, PaaS, or SaaS) would you recommend?
- Provide reasoning for your recommendation.

Submission Guidelines

• Format: Submit your answers in a PDF.

• Filename: CSE4267_Assignment1_[YourName]_[StudentID].pdf

• Method: Upload to Google Classroom.

• **Deadline:** 24-10-2024.

Grading Criteria

Aspect	Marks Allocation
Accuracy of Answers	5
Logical Reasoning	3
Presentation and Clarity	2