Internship Assignment – Animemangatoon.com

Cloud Computing Candidate Assignment

Assignment Overview:

Welcome, candidate! This assignment is designed to evaluate your skills in setting up cloud infrastructure, deploying applications, and managing services in a cloud environment. You will work on a cloud-based scenario inspired by a webtoon content company, demonstrating your ability to create efficient and scalable cloud solutions.

Instructions:

1. **Explore the Links Provided:** Visit the articles linked below to understand the webtoon content and the type of web application the company might host. This will help you tailor your cloud infrastructure setup accordingly.

2. **Build and Deploy a Cloud Solution:** Based on the task below, deploy a basic application on a cloud platform (AWS, Azure, or GCP). Focus on scalability, availability, and security.

3. **Submit the Assignment:** Upload your completed project on **GitHub**, and share the link on Assignment Submission.

Task Details:

Task:

- Deploy a **web application** inspired by "The 50 Best Fantasy Manhwa You Must Read Now". The application should:

  - Display a list of manhwa titles, their genres, and brief descriptions using mock data (e.g., a JSON file).

  - Be hosted on a cloud platform (AWS, Azure, or GCP) with a basic infrastructure setup, including:

    - An EC2 instance or an App Service for hosting.

    - A storage solution like S3 (AWS) or Blob Storage (Azure) for storing images.

    - A basic database (e.g., RDS or Cloud SQL) for managing the manhwa data.

- Set up **auto-scaling** for your application so it can handle traffic spikes. Document how auto-scaling is configured and what triggers it (e.g., CPU usage).

- Implement **security measures** by:

  - Enabling HTTPS for the application using a cloud service (e.g., AWS Certificate Manager or Azure SSL).

  - Configuring basic firewall rules to restrict access to necessary ports.

Submission Instructions:

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1. Upload your cloud deployment project on **GitHub**.

2. Share the repository link on Assignment Submission.

3. Ensure the repository permissions allow access to view your configuration files and deployment scripts.