Home Assignment: Server-Side Service Development for Presentation Platform

Objective

The objective of this assignment is to design and develop a server-side service for a web platform that manages presentations. The service should be implemented using Node.js with Express and adhere to RESTful API conventions.

Task Overview

1. Design and Develop the Following Operations:

   o Creating a New Presentation

   o Fetch a Presentation by Title (Unique)

   o Adding a Slide to a Presentation

   o Altering a Slide

   o Altering the Authors List

   o Deleting a Slide

   o Delete Presentation

   o Get All Presentations

Hint: Follow RESTful API conventions for designing the endpoints.

2. Presentation Data Structure:

   o Required Parameters:

      ▪ Title (unique)

      ▪ Authors' List

      ▪ Date of Publishment

   o *Note: You can add additional parameters as deemed necessary.*

3. Slide Structure:

   o *The slide structure is subject to your design discretion, either as part of the Presentation object or as a separate entity.*

4. Data Storage:

   o Use MongoDB to store raw data for presentations and slides.

5. Engineering Practices:

   o Apply best practices in software engineering, including thorough documentation, code simplicity, and efficiency.

6. Testing:

   o You can use Swagger/Postman for manual testing or apply integration tests and unit tests for the service.

7. Version Control:

   o Use Git and GitHub throughout the development process.

   o Ensure that the repository is **public** and not private.

8. README File:

   o Provide a README file with instructions on how to run the code.

Submission Instructions

- Deadline: You have **four days** to complete the assignment.

- Deliverables:

   o A zipped file of the source code.

   o A URL link to the public GitHub repository.

- Submission: Reply to the assignment email with the zipped file and the GitHub repository URL.

Feel free to reach out for additional information!

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