



MICROSERVICES-BASED NETWORKING PLATFORM

competency test



MICROSERVICES-BASED NETWORKING PLATFORM

The task involves designing and constructing an intricate microservices-based system aimed at simulating the functionalities of a professional networking platform. This system will encompass a range of distinct microservices, each meticulously tailored to address specific aspects of the platform's operations. The development of the application should be carried out utilizing Symfony 6, while the choice of SQL server, such as MySQL, is at the developer's discretion.

Requirements

- **Set up a new Symfony 6 project from scratch**
- **Authentication and User Profiles Microservice:**
 - Develop a microservice responsible for handling user authentication and profile management.
 - Implement user registration functionality, allowing new users to create accounts with essential details such as name, email, and password.
 - Design a secure login mechanism that enables registered users to access the system.
 - Store and manage user profile information, including profile images.
- **Posts Microservice:**
 - Create a dedicated microservice to manage user-generated posts.
 - Enable users to create new posts, edit their existing posts, and delete posts if needed.
 - Store post-related data, such as the title, content, author, and publication date.
 - Develop API endpoints to facilitate the creation, retrieval (make sure to include information is post liked by the current user), updating, and deletion of posts.
- **Likes Microservice:**
 - Build a microservice that handles the process of liking posts.
 - Implement functionality allowing users to like and unlike posts.
 - Store relevant data about post likes, including the user who liked the post and the post being liked.
 - Provide API endpoints to manage the liking and unliking of posts.
- **Direct Communication Microservice:**
 - Develop a microservice that enables direct communication between users.
 - Implement the ability for users to send and receive direct messages to and from other users.
 - Implement the ability for users to respond to the specific message in conversation (threading)
 - Store message details, including the sender, recipient, message content, and timestamp.
 - Design and implement API endpoints to facilitate the sending and receiving of messages.

MICROSERVICES-BASED NETWORKING PLATFORM

- **Queue System Integration:**

- Integrate a queue system to handle asynchronous tasks effectively.
- Utilize the queue system to manage tasks that don't require immediate processing, such as sending email notifications when a user registers.
- Implement the necessary mechanisms to ensure that tasks are processed reliably and efficiently.

Submission

Please provide the following when submitting your assignment:

- A link to the Git repository containing your Symfony 6 project.
- Documentation on how to set up and run the API.
- A brief explanation of your design choices, any additional features you implemented, and the business logic you incorporated (if applicable).

THE DEADLINE FOR COMPLETING THE TASK IS 7 DAYS.

Note: The task is intended exclusively for the selection process and will not be used for other purposes.

GOOD LUCK!

We are looking forward to seeing your results.