

Apica : Java Backend Assignment

Goals

1. Implement a Spring Boot microservice responsible for user management.
 2. Implement another Spring Boot microservice responsible for journaling user events.
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Requirements

User Service

- Include functionalities for user registration, user details retrieval, updating and deleting user information, and managing user roles. (You may use any database to store the user details)
- Expose RESTful API endpoints for all CRUD operations.
- Integrate Spring Security for role-based authentication and authorization.
- Publish user-related events to a Kafka topic named `user-events` for journaling.

Journal Service

- Consume events from the `user-events` Kafka topic.
 - Log the received events and persist them in a database of your choice.
 - Expose RESTful API endpoints to retrieve journaled user events.
 - Implement role-based access control for accessing journal data.
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Good to Have

- Unit tests for individual components.
 - Integration tests across services or modules.
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Documentation Expectations

- Provide a `docker-compose.yml` file to run the entire system including dependencies like Kafka and the databases.
 - Document all available REST API endpoints in a README or API specification file.
 - Include clear instructions on how to run, test, and interact with the system locally.
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Submission Guidelines

- Include all source code in a public or private Git repository.
- Add a README file explaining setup, APIs, architecture decisions, and how to test the application.
- If any assumptions were made, document them clearly.