Take-Home Interview Test Part 1

Objective

Your task is to design and implement a **Spring Boot 3** application that exposes a RESTful API and interacts with a database. The application should adhere to the Jakarta EE specifications and the package structure should be based on features.

Requirements

1. **Spring Boot 3**:
   - Your application should be built using Spring Boot 3.
2. **Database Interaction**:
   - Your application should interact with a database {database will be set up in the template provided - take note of the username and password in the application.yml if you wish to manually view it}.
   - The data represents a credit union member's account information. The data includes the following columns: Account ID, First Name, Last Name, Address.
3. **REST API**:
   - Your application should expose a RESTful API.
   - The API should include all CRUD operations.
4. **Jakarta EE Specifications**:
   - Your application should adhere to the Jakarta EE specifications.
5. **Package Structure**:
   - Your application's package structure should be based on features. For example, if your application has two features User and Product, the package structure should be something like this:

```
com.example
    user
        controller
        service
        repository
    product
        controller
        service
        repository
```

Deliverables

Please provide the following:

1. The complete source code of the application.
2. A README file that includes:
   - Instructions on how to build and run your application.
   - A brief explanation of your design and assumptions.

Evaluation

Your submission will be evaluated based on the following criteria:

1. Fulfillment of the requirements: Does your application meet the requirements outlined above?
2. Code quality: Is your code well-structured, easy to read, and maintainable?
3. Error handling: Does your application handle potential errors gracefully?
4. Testing: Have you included tests for your application? Do the tests provide good coverage?
5. Documentation: Is the application and its code properly documented?