Assessment

1. Creating Microservices for account and loan using Spring Boot

Step 1- General Architecture

By creating two Spring Boot applications:

. Account Service which manages all the customer accounts

. Loan Service that manages customer loans

Both of these will be communicated independently, through REST APIs.

Step 2-Technologies Used

. Spring Boot

. Spring Web

. Spring Data JPA

. Spring Cloud OpenFeign

. H2/MySQL/PostgreSQL

Step 3- For each services

1. Account Service-

Dependencies in pom.xml

<dependencies>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-web</artifactId>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-data-jpa</artifactId>

</dependency>

<dependency>

<groupId>com.h2database</groupId>

<artifactId>h2</artifactId>

<scope>runtime</scope>

</dependency>

</dependencies>

1. Loan Service-

Entity example

@Entity

public class Loan {

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private Long id;

private String customerName;

private double loanAmount;

// Getters and Setters

}

Step 4-Running Both Services

For Account Service-

server.port=8081

For Loan Service-

server.port=8082