**MicroServices**

**LoanController.java/**

package com.cognizant.loan.controller;  
  
import com.cognizant.loan.model.LoanDetails;  
import com.cognizant.loan.service.LoanService;  
import org.springframework.beans.factory.annotation.Autowired;  
import org.springframework.web.bind.annotation.\*;  
  
import java.util.List;  
  
@RestController  
@RequestMapping("/loans")  
public class LoanController {  
  
 @Autowired  
 private LoanService loanService;  
  
 @GetMapping  
 public List<LoanDetails> getAllLoans() {  
 return loanService.getAllLoans();  
 }  
}

**LoanDetails.java/**

package com.cognizant.loan.model;  
  
public class LoanDetails {  
 private String number;  
 private String type;  
 private double loan;  
 private String startDate;  
 private String borrower;  
  
 // Constructor  
 public LoanDetails(String number, String type, double loan, String startDate, String borrower) {  
 this.number = number;  
 this.type = type;  
 this.loan = loan;  
 this.startDate = startDate;  
 this.borrower = borrower;  
 }  
  
 // Getters and setters  
 public String getNumber() {  
 return number;  
 }  
  
 public void setNumber(String number) {  
 this.number = number;  
 }  
  
 public String getType() {  
 return type;  
 }  
  
 public void setType(String type) {  
 this.type = type;  
 }  
  
 public double getLoan() {  
 return loan;  
 }  
  
 public void setLoan(double loan) {  
 this.loan = loan;  
 }  
  
 public String getStartDate() {  
 return startDate;  
 }  
  
 public void setStartDate(String startDate) {  
 this.startDate = startDate;  
 }  
  
 public String getBorrower() {  
 return borrower;  
 }  
  
 public void setBorrower(String borrower) {  
 this.borrower = borrower;  
 }  
}

**LoanApplication.java/**

package com.cognizant;  
  
import org.springframework.boot.SpringApplication;  
import org.springframework.boot.autoconfigure.SpringBootApplication;  
  
@SpringBootApplication  
public class LoanApplication {  
  
 public static void main(String[] args) {  
 SpringApplication.run(LoanApplication.class, args);  
 }  
}

**LoanService.java/**

package com.cognizant.loan.service;  
  
import com.cognizant.loan.model.LoanDetails;  
import org.springframework.stereotype.Service;  
  
import java.util.Arrays;  
import java.util.List;  
  
@Service  
public class LoanService {  
  
 public List<LoanDetails> getAllLoans() {  
 return Arrays.asList(  
 new LoanDetails("LN001", "Home", 500000.0, "2023-05-10", "John Doe"),  
 new LoanDetails("LN002", "Car", 200000.0, "2023-06-20", "Jane Smith")  
 );  
 }  
}

**account\pom.xml/**

<project xmlns="http://maven.apache.org/POM/4.0.0"  
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
 xsi:schemaLocation="http://maven.apache.org/POM/4.0.0  
 http://maven.apache.org/xsd/maven-4.0.0.xsd">  
 <modelVersion>4.0.0</modelVersion>  
  
 <groupId>com.example</groupId>  
 <artifactId>account</artifactId>  
 <version>1.0.0</version>  
 <packaging>jar</packaging>  
  
 <name>account</name>  
 <description>Spring Boot Account Service</description>  
  
 <parent>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-parent</artifactId>  
 <version>3.1.1</version>  
 <relativePath/> <!-- lookup parent from repository -->  
 </parent>  
  
 <properties>  
 <java.version>17</java.version>  
 </properties>  
  
 <dependencies>  
 <!-- Spring Boot Starter Web -->  
 <dependency>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-web</artifactId>  
 </dependency>  
  
 <!-- Spring Boot Starter Test -->  
 <dependency>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-test</artifactId>  
 <scope>test</scope>  
 </dependency>  
 </dependencies>  
  
 <build>  
 <plugins>  
 <!-- Spring Boot Maven Plugin with mainClass -->  
 <plugin>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-maven-plugin</artifactId>  
 <version>3.1.1</version>  
 <configuration>  
 <mainClass>com.example.account.AccountApplication</mainClass>  
 </configuration>  
 </plugin>  
 </plugins>  
 </build>  
</project>

**Loan\pom.xml/**

<project xmlns="http://maven.apache.org/POM/4.0.0"  
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
 xsi:schemaLocation="http://maven.apache.org/POM/4.0.0  
 http://maven.apache.org/xsd/maven-4.0.0.xsd">  
 <modelVersion>4.0.0</modelVersion>  
  
 <groupId>com.cognizant</groupId>  
 <artifactId>loan</artifactId>  
 <version>0.0.1-SNAPSHOT</version>  
 <name>loan</name>  
 <description>Loan Microservice</description>  
  
 <parent>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-parent</artifactId>  
 <version>3.2.5</version>  
 <relativePath/> <!-- lookup parent from repository -->  
 </parent>  
  
 <properties>  
 <java.version>17</java.version>  
 </properties>  
  
 <dependencies>  
 <!-- Spring Boot Starter Web -->  
 <dependency>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-web</artifactId>  
 </dependency>  
  
 <!-- Test (Optional) -->  
 <dependency>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-test</artifactId>  
 <scope>test</scope>  
 </dependency>  
 </dependencies>  
  
 <build>  
 <plugins>  
 <!-- Spring Boot Maven Plugin -->  
 <plugin>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-maven-plugin</artifactId>  
 </plugin>  
 </plugins>  
 </build>  
  
</project>

**Output:**



