Creating Microservices for account and loan

microservices/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.cognizant</groupId>  
<artifactId>account</artifactId>  
<version>0.0.1-SNAPSHOT</version>  
<parent>  
<groupId>org.springframework.boot</groupId>  
<artifactId>spring-boot-starter-parent</artifactId>  
<version>2.7.5</version>  
<relativePath/>  
</parent>  
<dependencies>  
<dependency>  
<groupId>org.springframework.boot</groupId>  
<artifactId>spring-boot-starter-web</artifactId>  
</dependency>  
<dependency>  
<groupId>org.springframework.boot</groupId>  
<artifactId>spring-boot-devtools</artifactId>  
<scope>runtime</scope>  
<optional>true</optional>  
</dependency>  
</dependencies>  
<build>  
<plugins>  
<plugin>  
<groupId>org.springframework.boot</groupId>  
<artifactId>spring-boot-maven-plugin</artifactId>  
</plugin>  
</plugins>  
</build>  
</project>

microservices/account/src/main/java/com/cognizant/account/AccountApplication.java

package com.cognizant.account;

import org.springframework.boot.SpringApplication;  
import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication  
public class AccountApplication {

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public static void main(String[] args) {

SpringApplication.run(AccountApplication.class, args);

}

}

microservices/account/src/main/java/com/cognizant/account/controller/AccountController.java

package com.cognizant.account.controller;

import org.springframework.web.bind.annotation.GetMapping;  
import org.springframework.web.bind.annotation.PathVariable;  
import org.springframework.web.bind.annotation.RestController;

import java.util.HashMap;  
import java.util.Map;

@RestController  
public class AccountController {

@GetMapping("/accounts/{number}")

public Map<String, Object> getAccount(@PathVariable String number) {

Map<String, Object> response = new HashMap<>();

response.put("number", number);

response.put("type", "savings");

response.put("balance", 234343);

return response;

}

}

microservices/account/src/main/resources/application.properties

(no entries—uses default port 8080)

microservices/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>  
<parent>  
<groupId>org.springframework.boot</groupId>  
<artifactId>spring-boot-starter-parent</artifactId>  
<version>2.7.5</version>  
<relativePath/>  
</parent>  
<dependencies>  
<dependency>  
<groupId>org.springframework.boot</groupId>  
<artifactId>spring-boot-starter-web</artifactId>  
</dependency>  
<dependency>  
<groupId>org.springframework.boot</groupId>  
<artifactId>spring-boot-devtools</artifactId>  
<scope>runtime</scope>  
<optional>true</optional>  
</dependency>  
</dependencies>  
<build>  
<plugins>  
<plugin>  
<groupId>org.springframework.boot</groupId>  
<artifactId>spring-boot-maven-plugin</artifactId>  
</plugin>  
</plugins>  
</build>  
</project>

microservices/loan/src/main/java/com/cognizant/loan/LoanApplication.java

package com.cognizant.loan;

import org.springframework.boot.SpringApplication;  
import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication  
public class LoanApplication {

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public static void main(String[] args) {

SpringApplication.run(LoanApplication.class, args);

}

}

microservices/loan/src/main/java/com/cognizant/loan/controller/LoanController.java

package com.cognizant.loan.controller;

import org.springframework.web.bind.annotation.GetMapping;  
import org.springframework.web.bind.annotation.PathVariable;  
import org.springframework.web.bind.annotation.RestController;

import java.util.HashMap;  
import java.util.Map;

@RestController  
public class LoanController {

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@GetMapping("/loans/{number}")

public Map<String, Object> getLoan(@PathVariable String number) {

Map<String, Object> response = new HashMap<>();

response.put("number", number);

response.put("type", "car");

response.put("loan", 400000);

response.put("emi", 3258);

response.put("tenure", 18);

return response;

}

}

microservices/loan/src/main/resources/application.properties

server.port=8081



