**Creating Microservices for account and loan**

**Changing 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>  
 <name>account</name>  
 <description>Account Microservice</description>  
 <packaging>jar</packaging>  
  
 <parent>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-parent</artifactId>  
 <version>3.2.4</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>

**Account Microservice:**

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

package com.cognizant.account;  
  
 import org.springframework.web.bind.annotation.\*;  
  
 @RestController  
 @RequestMapping("/accounts")  
 public class AccountController {  
  
 @GetMapping("/{number}")  
 public Account getAccount(@PathVariable String number) {  
 return new Account(number, "savings", 234343);  
 }  
  
 static class Account {  
 private String number;  
 private String type;  
 private double balance;  
  
 public Account(String number, String type, double balance) {  
 this.number = number;  
 this.type = type;  
 this.balance = balance;  
 }  
  
 public String getNumber() { return number; }  
 public String getType() { return type; }  
 public double getBalance() { return balance; }  
 }  
 }

**Output:**

{

"number": "00987987973432",

"type": "savings",

"balance": 234343

}

**Loan Microservice:**

package com.cognizant.loan;  
  
 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);  
 }  
 }

package com.cognizant.loan;  
  
 import org.springframework.web.bind.annotation.\*;  
  
 @RestController  
 @RequestMapping("/loans")  
 public class LoanController {  
  
 @GetMapping("/{number}")  
 public Loan getLoan(@PathVariable String number) {  
 return new Loan(number, "car", 400000, 3258, 18);  
 }  
  
 static class Loan {  
 private String number;  
 private String type;  
 private double loan;  
 private double emi;  
 private int tenure;  
  
 public Loan(String number, String type, double loan, double emi, int tenure) {  
 this.number = number;  
 this.type = type;  
 this.loan = loan;  
 this.emi = emi;  
 this.tenure = tenure;  
 }  
  
 public String getNumber() { return number; }  
 public String getType() { return type; }  
 public double getLoan() { return loan; }  
 public double getEmi() { return emi; }  
 public int getTenure() { return tenure; }  
 }  
 }

**Output:**

{

"number": "H00987987972342",

"type": "car",

"loan": 400000,

"emi": 3258,

"tenure": 18

}