**Microservices Hands-on Documentation**

**AccountApplication.java**

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);

}

}

# AccountController.java

package com.cognizant.account.controller

import org.springframework.web.bind.annotation.\*; import java.util.\*;

@RestController @RequestMapping("/accounts") public class AccountController {

@GetMapping("/{number}")

public Map<String, Object> getAccountByNumber(@PathVariable String number) { Map<String, Object> account = new HashMap<>();

account.put("number", number); account.put("type", "savings"); account.put("balance", 234343); return account;

}

}

**LoanApplication.java**

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);

}

}

# LoanController.java

package com.cognizant.loan.controller;

import org.springframework.web.bind.annotation.\*; import java.util.\*;

@RestController @RequestMapping("/loans") public class LoanController {

@GetMapping("/{number}")

public Map<String, Object> getLoanByNumber(@PathVariable String number) { Map<String, Object> loan = new HashMap<>();

loan.put("number", number); loan.put("type", "car"); loan.put("loan", 400000);

loan.put("emi", 3258);

loan.put("tenure", 18); return loan;

}

}

**Pom.xml**

<?xml version="1.0" encoding="UTF-8"?>

<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 https://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<parent>

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

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

<version>3.5.3</version>

<relativePath/>

</parent>

<groupId>com.cognizant</groupId>

<artifactId>account</artifactId>

<version>0.0.1-SNAPSHOT</version>

<name>Account Microservices</name>

<description>Demo project for Spring Boot</description>

<url/>

<licenses>

<license/>

</licenses>

<developers>

<developer/>

</developers>

<scm>

<connection/>

<developerConnection/>

<tag/>

<url/>

</scm>

<properties>

<java.version>21</java.version>

</properties>

<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>

</dependency>

<dependency>

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

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

<scope>test</scope>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

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

<artifactId>spring-boot-maven-plugin</artifactId>

</plugin>

</plugins>

</build>

</project>

**Application.properties**

package com.cognizant.MicroservicesForAccountAndLoan;

import org.junit.jupiter.api.Test;

import org.springframework.boot.test.context.SpringBootTest;

@SpringBootTest

class MicroservicesForAccountAndLoanApplicationTests {

@Test

void contextLoads() {

}

}

**OUTPUT:**

