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# Microservices with Spring Boot 3 and Spring Cloud 2.Microservices with API Gateway

**Creating Microservices for account and loan**

**Solution 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 java.util.HashMap; import java.util.Map;

import org.springframework.web.bind.annotation.\*; @RestController

@RequestMapping("/loans")

public class LoanController {

@GetMapping("/{number}")

public Map<String, Object> getLoanDetails(@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;

}

}

# 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.\*; @RestController

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

@GetMapping("/{number}")

public Account getAccount(@PathVariable String number) { return new Account(number, "savings", 234343);

}

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; }

}

}

# pom.xml

<project xmlns="<http://maven.apache.org/POM/4.0.0>" ...>

<modelVersion>4.0.0</modelVersion>

<groupId>com.cognizant</groupId>

<artifactId>loan</artifactId>

<version>0.0.1-SNAPSHOT</version>

<name>Loan Service</name>

<description>Loan microservice</description>

<packaging>jar</packaging>

<parent>

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

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

<version>3.1.3</version>

</parent>

<dependencies>

<dependency>

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

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

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

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

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

</plugin>

</plugins>

</build>

</project>

Output



