

WEEK-5

Creating Microservices for account and loan

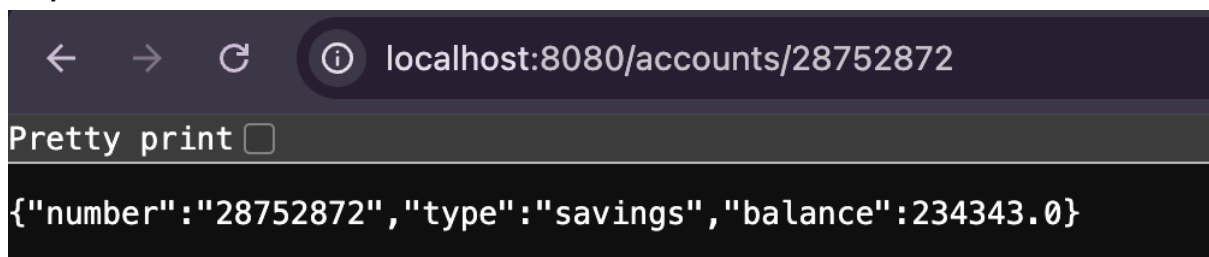
1) Microservice for account

- Create a folder structure on the desktop with employeeID(123456) > microservices.
- Generate the maven application from the spring initializr with group name - com.cognizant and artifact ID - account. Download the zip file and extract the folder.
- Place the account folder in the microservices folder.
- In the terminal, build the project using the command "mvn clean package".
- Write a controller class in the com.cognizant.account.controller package.

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", 234343.0);
    }
    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:



2) Microservice for loan

- Create a folder structure on the desktop with employeeID(123456) > microservices.
- Generate the maven application from the spring initializr with group name - com.cognizant and artifact ID - loan. Download the zip file and extract the folder.
- Place the loan folder in the microservices folder.
- In the terminal, build the project using the command "mvn clean package".
- Write a controller class in the com.cognizant.loan.controller package.

LoanController.java

```
package com.cognizant.loan.controller;
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", 400000.0, 3258, 18);
    }
    static class Loan {
        private String number;
        private String type;
        private double loan;
        private int emi;
        private int tenure;
        public Loan(String number, String type, double loan, int 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 int getEmi() { return emi; }
        public int getTenure() { return tenure; }
    }
}
```

Output:

