

Creating Microservices for account and loan

Account Microservice

- ☐ Create folder with employee id in D: drive
- ☐ Create folder named 'microservices' in the new folder created in previous step. This folder will contain all the sample projects that we will create for learning microservices.
- ☐ Open <https://start.spring.io/> in browser
- ☐ Enter form field values as specified below:
 - o Group: com.cognizant
 - o Artifact: account
- ☐ Select the following modules
 - o Developer Tools > Spring Boot DevTools
 - o Web > Spring Web
- ☐ Click generate and download the zip file
- ☐ Extract 'account' folder from the zip and place this folder in the 'microservices' folder created earlier
- ☐ Open command prompt in account folder and build using mvn clean package command
- ☐ Import this project in Eclipse and implement a controller method for getting account details based on account number. Refer specification below:
 - o Method: GET
 - o Endpoint: /accounts/{number}
 - o Sample Response. Just a dummy response without any backend connectivity.

```
package com.cognizant.account.controller;
```

```
import org.springframework.web.bind.annotation.*;
```

```
@RestController
```

```
@RequestMapping("/accounts")
```

```
public class AccountController {

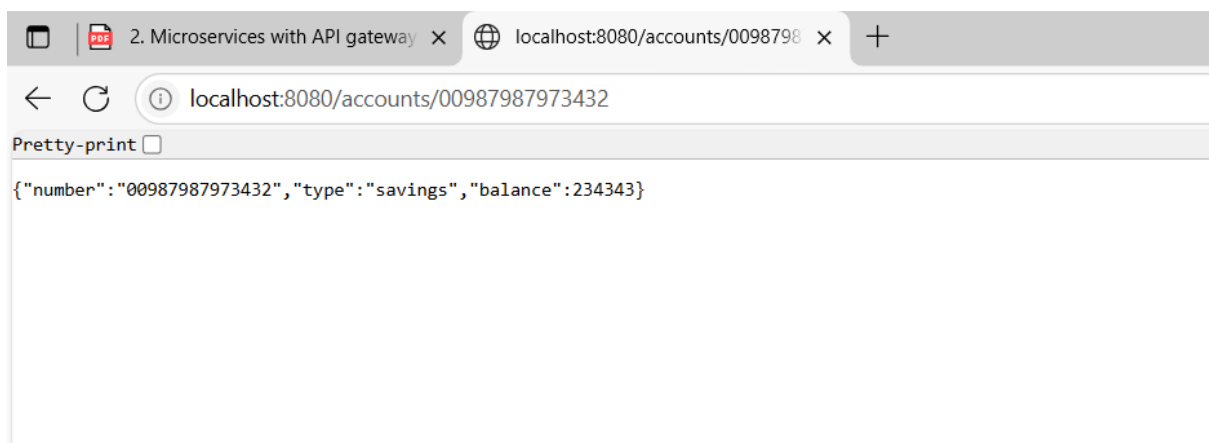
    @GetMapping("/{number}")
    public Account getAccount(@PathVariable String number) {
        return new Account(number, "savings", 234343);
    }

    static class Account {
        private String number;
        private String type;
        private int balance;

        public Account(String number, String type, int balance) {
            this.number = number;
            this.type = type;
            this.balance = balance;
        }

        public String getNumber() { return number; }
        public String getType() { return type; }
        public int getBalance() { return balance; }
    }
}
```

OUTPUT:



Loan Microservice

□ Follow similar steps specified for Account Microservice and implement a service API to get loan account details

o Method: GET

o Endpoint: /loans/{number}

o Sample Response. Just a dummy response without any backend connectivity.

```
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, 3258, 18);
```

```
    }
```

```
static class Loan {
```

```
    private String number;
```

```
    private String type;
```

```
    private int loan;
```

```
    private int emi;
```

```
    private int tenure;
```

```
    public Loan(String number, String type, int 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 int getLoan() { return loan; }
    public int getEmi() { return emi; }
    public int getTenure() { return tenure; }
}
}
```

OUTPUT:

