

Week-5 MICROSERVICES

Creating Microservices for account and loan

ACCOUNT MICROSERVICES

AccountApplication.java

```
package com.example.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.example.account.controller;

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

import java.util.Map;

@RestController

@RequestMapping("/accounts")

public class AccountController {

    @GetMapping("/{number}")

    public Map<String, Object> getAccountDetails(@PathVariable String number) {

        return Map.of(
```

"number", number,

"type", "savings",

"balance", 234343

AccountApplicationTests.java

```
package com.example.account;

import org.junit.jupiter.api.Test;

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

@SpringBootTest

class AccountApplicationTests {

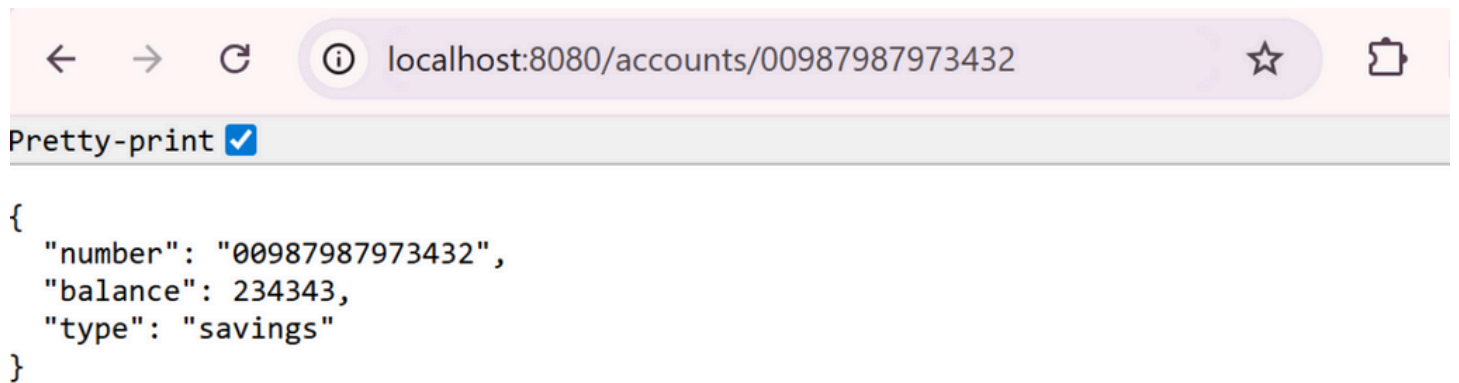
    @Test

    void contextLoads() {

    }

}
```

Output



LOAN MICROSERVICES

LoanApplication.java

```
package com.example.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.example.loan.controller;

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

@RestController

@RequestMapping("/loans")

public class LoanController {

    @GetMapping("/{number}")

    public Loan getLoanByNumber(@PathVariable String number) {

        return new Loan("H00987987972342", "car", 400000, 3258, 18);

    }

    static class Loan {

        public String number;

        public String type;

        public int loan;

        public int emi;
```

```
public 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;
```

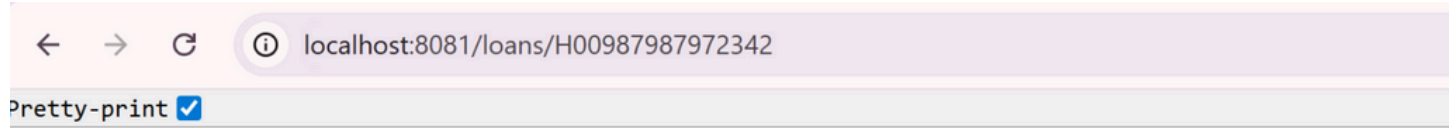
```
    this.tenure = tenure;
```

```
}
```

```
}
```

```
}
```

output



```
{
  "number": "H00987987972342",
  "type": "car",
  "loan": 400000,
  "emi": 3258,
  "tenure": 18
}
```