

# CREATING MICRO SERVICES FOR ACCOUNT AND LOAN

## 1. Account Microservice

### Account.java (Model)

```
package com.cognizant.account.model;

public 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; }
}
```

### AccountController.java (Controller)

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

import com.cognizant.account.model.Account;
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);
    }
}
```

### AccountApplication.java (Main Class)

```
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);
    }
}
```

### **pom.xml (Dependencies)**

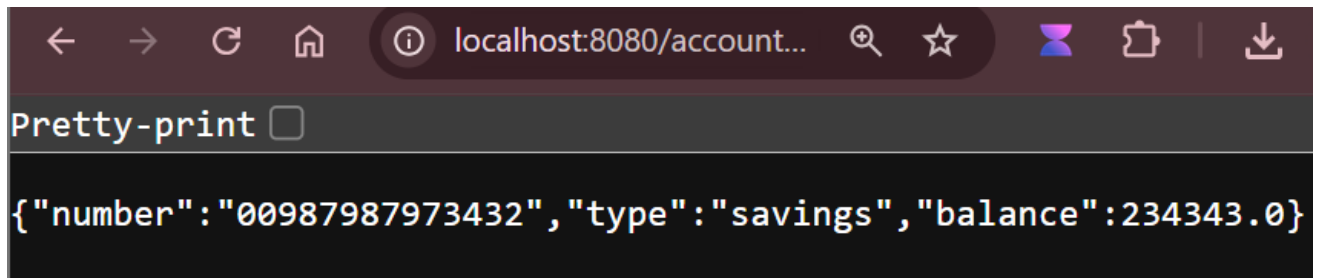
Make sure your generated project includes:

```
<dependencies>
  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-web</artifactId>
  </dependency>
</dependencies>
```

### **Test in browser:**

<http://localhost:8080/accounts/00987987973432>

### **Output:**



## **2. Loan Microservice**

### **Loan.java (Model)**

```
package com.cognizant.loan.model;

public class Loan {
    private String number;
    private String type;
```

```

private double loan;
private double emi;
private int tenure;

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

```

### **LoanController.java (Controller)**

```

package com.cognizant.loan.controller;

import com.cognizant.loan.model.Loan;
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);
    }
}

```

### **LoanApplication.java (Main Class)**

```

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);
    }
}
```

### **application.properties**

server.port=8081

### **Test in browser:**

<http://localhost:8081/loans/H00987987972342>

### **Output:**

