**MICROSERVICES with API Gateway**

**Exercise:1 Creating Microservices for account and loan**

**1.Account Microservice**

Step 1: Create a folder name <EmployeeId>

Step 2: Go to <https://start.spring.io/>

Groupid: com.cognizant

Artifactid: account

Add the following Dependencies

Spring Boot DevTools

Spring Web

Click Generate

Step 3: Add folder named microservices and extract the account file and paste this in microservices folder

Step 4: In eclipse File>Import>Existing Maven Project browse this **account** file and click select

Step 5: In src>main>java>com.cognizant.account create a package named account and create a class named AccountController

**AccountController.java**

package com.cognizant.account.controller;

import java.util.Map;

import java.util.HashMap;

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

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

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

@RestController

public class AccountController {

@GetMapping("/accounts/{number}")

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

Map<String, Object> response = new HashMap<>();

response.put("number", number);

response.put("type", "savings");

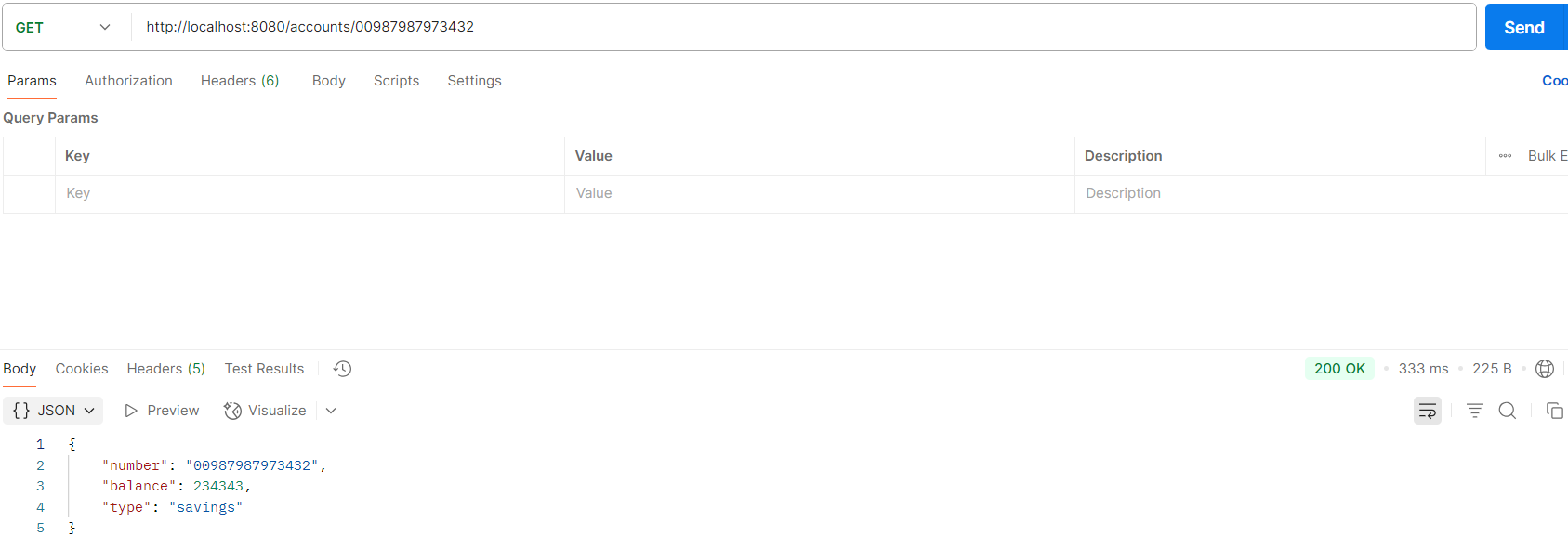
response.put("balance", 234343);

return response;

}

}

Output



**2.Loan Microservice**

Repeate the above steps

After going to this <https://start.spring.io/> Change the Artifactid as loan and add same dependencies and click generate

Paste the extracted file into microservices folder

File>Import>Existing Maven Project browse this **loan** file and click select

Create a package com.cognizant.loan.controller

**LoanController.java**

package com.cognizant.loan.controller;

import java.util.Map;

import java.util.HashMap;

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

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

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

@RestController

public class LoanController {

@GetMapping("/loans/{number}")

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

Map<String, Object> response = new HashMap<>();

response.put("number", number);

response.put("type", "car");

response.put("loan", 400000);

response.put("emi", 3258);

response.put("tenure", 18);

return response;

}

}

In application.properties Add

server.port=8081

**Output**

