**Microservices with API gateway**

# 1. Account Microservice

\*\*Package:\*\* com.cognizant.account

\*\*Main Class:\*\* AccountApplication.java

\*\*Port:\*\* 8080

\*\*Sample Output:\*\*

{  
 "number": "00987987973432",  
 "type": "savings",  
 "balance": 234343.0  
}

## Code:

package com.cognizant.account;  
  
import org.springframework.boot.SpringApplication;  
import org.springframework.boot.autoconfigure.SpringBootApplication;  
import org.springframework.web.bind.annotation.GetMapping;  
import org.springframework.web.bind.annotation.RestController;  
  
@SpringBootApplication  
@RestController  
public class AccountApplication {  
  
 public static void main(String[] args) {  
 SpringApplication.run(AccountApplication.class, args);  
 }  
  
 @GetMapping("/account")  
 public Account getAccountDetails() {  
 return new Account("00987987973432", "savings", 234343.0);  
 }  
}  
  
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;  
 }  
}

# 2. Loan Microservice

\*\*Package:\*\* com.cognizant.loan

\*\*Main Class:\*\* LoanApplication.java

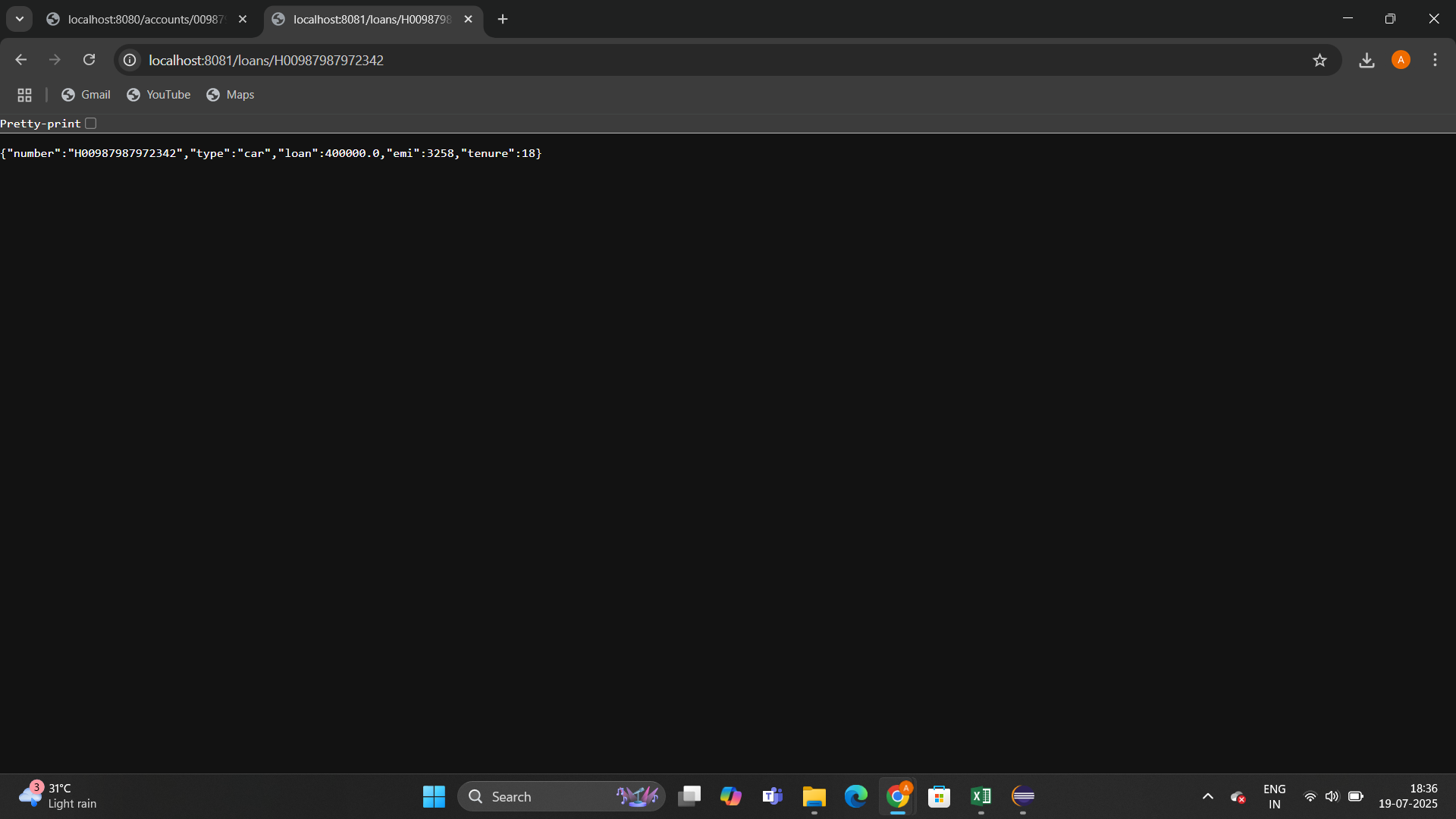
\*\*Port:\*\* 8081

\*\*Sample Output:\*\*

{  
 "number": "H00987987972342",  
 "type": "car",  
 "loan": 400000.0,  
 "emi": 3258,  
 "tenure": 18  
}

## Code:

package com.cognizant.loan;  
  
import org.springframework.boot.SpringApplication;  
import org.springframework.boot.autoconfigure.SpringBootApplication;  
import org.springframework.web.bind.annotation.GetMapping;  
import org.springframework.web.bind.annotation.RestController;  
  
@SpringBootApplication  
@RestController  
public class LoanApplication {  
  
 public static void main(String[] args) {  
 SpringApplication.run(LoanApplication.class, args);  
 }  
  
 @GetMapping("/loan")  
 public Loan getLoanDetails() {  
 return new Loan("H00987987972342", "car", 400000.0, 3258, 18);  
 }  
}  
  
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;  
 }  
}

: