//Account Controller

package com.cognizant.account.controller;

import com.cognizant.account.model.Account;

import com.cognizant.account.service.AccountService;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.data.repository.query.Param;

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

@RestController

public class AccountController {

    @Autowired

    private AccountService accountService;

    @PostMapping("/account")

    public Account save(@RequestBody Account account){

        return accountService.save(account);

    }

    @GetMapping("/account/{number}")

    public  Account findByid(@PathVariable String number){

        return accountService.findbyid(number);

    }

}

//Account

package com.cognizant.account.model;

import jakarta.persistence.Entity;

import jakarta.persistence.Id;

import jakarta.persistence.Table;

@Entity

@Table(name="accounts")

public class Account {

    @Id

    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 Account() {

    }

    public String getNumber() {

        return number;

    }

    public void setNumber(String number) {

        this.number = number;

    }

    public String getType() {

        return type;

    }

    public void setType(String type) {

        this.type = type;

    }

    public double getBalance() {

        return balance;

    }

    public void setBalance(double balance) {

        this.balance = balance;

    }

}

//Account Service

package com.cognizant.account.service;

import com.cognizant.account.model.Account;

import com.cognizant.account.repository.AccountRepository;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.stereotype.Service;

@Service

public class AccountService {

    @Autowired

    private AccountRepository accountRepository;

    public Account save(Account account) {

        return accountRepository.save(account);

    }

    public Account findbyid(String number) {

        return accountRepository.findById(number).orElse(new Account());

    }

}

//Account repository

package com.cognizant.account.repository;

import com.cognizant.account.model.Account;

import org.springframework.data.jpa.repository.JpaRepository;

import org.springframework.stereotype.Repository;

@Repository

public interface AccountRepository extends JpaRepository<Account,String> {

}

///application Properties

spring.application.name=account

server.port=8082

eureka.client.service-url.defaultZone=http://localhost:8761/eureka/

eureka.client.register-with-eureka=true

eureka.client.fetch-registry=true

spring.datasource.url=jdbc:mysql://localhost:3306/account\_db

spring.datasource.username=root

spring.datasource.password=Tarun2005@

spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver

spring.jpa.hibernate.ddl-auto=update

spring.jpa.show-sql=true

spring.jpa.open-in-view=false

spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQLDialect

//Account Main function

package com.cognizant.account;

import org.springframework.cloud.client.discovery.EnableDiscoveryClient;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@EnableDiscoveryClient

@SpringBootApplication

public class AccountApplication {

    public static void main(String[] args) {

        SpringApplication.run(AccountApplication.class, args);

    }

}

///Spring eruka

//Main function

package com.cognizant.eureka\_server;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.cloud.netflix.eureka.server.EnableEurekaServer;

@SpringBootApplication

@EnableEurekaServer

public class EurekaServerApplication {

    public static void main(String[] args) {

        SpringApplication.run(EurekaServerApplication.class, args);

    }

}

//Loan Model

package com.cognizant.loan.model;

import jakarta.persistence.Entity;

import jakarta.persistence.Id;

import jakarta.persistence.Table;

@Entity

@Table(name="Loan")

public class Loan {

    @Id

    private String loanId;

    private String Type;

    private Double amount;

    public String getLoanId() {

        return loanId;

    }

    public void setLoanId(String loanId) {

        this.loanId = loanId;

    }

    public String getType() {

        return Type;

    }

    public void setType(String type) {

        Type = type;

    }

    public Double getAmount() {

        return amount;

    }

    public void setAmount(Double amount) {

        this.amount = amount;

    }

    public Loan() {

    }

    public Loan(String loanId, String type, Double amount) {

        this.loanId = loanId;

        Type = type;

        this.amount = amount;

    }

}

//Loan Controller

package com.cognizant.loan.controller;

import com.cognizant.loan.model.Loan;

import com.cognizant.loan.service.LoanService;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.http.ResponseEntity;

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

@RestController

public class LoanController {

    @Autowired

    private LoanService loanService;

    @PostMapping("/loan")

    public Loan createLoan(@RequestBody Loan loan) {

        return loanService.saveLoan(loan);

    }

    @GetMapping("/loan/{loanId}")

    public ResponseEntity<Loan> getLoanById(@PathVariable String loanId) {

        Loan loan = loanService.getLoanById(loanId);

        if (loan == null) {

            return ResponseEntity.notFound().build();

        }

        return ResponseEntity.ok(loan);

    }

}

//Loan Repository

package com.cognizant.loan.repository;

import com.cognizant.loan.model.Loan;

import org.springframework.data.jpa.repository.JpaRepository;

import org.springframework.stereotype.Repository;

@Repository

public interface LoanRepository extends JpaRepository<Loan, String> {

}

///Loan Service

package com.cognizant.loan.service;

import com.cognizant.loan.model.Loan;

import com.cognizant.loan.repository.LoanRepository;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.stereotype.Service;

@Service

public class LoanService {

    @Autowired

    private LoanRepository loanRepository;

    public Loan saveLoan(Loan loan) {

        return loanRepository.save(loan);

    }

    public Loan getLoanById(String loanId) {

        return loanRepository.findById(loanId).orElse(null);

    }

}

//Loan Main Class

package com.cognizant.loan;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.cloud.client.discovery.EnableDiscoveryClient;

@EnableDiscoveryClient

@SpringBootApplication

public class LoanApplication {

    public static void main(String[] args) {

        SpringApplication.run(LoanApplication.class, args);

    }

}

//Application properties

spring.application.name=loan

server.port=8086

eureka.client.service-url.defaultZone=http://localhost:8761/eureka/

eureka.client.register-with-eureka=true

eureka.client.fetch-registry=true

spring.datasource.url=jdbc:mysql://localhost:3306/loan\_db

spring.datasource.username=root

spring.datasource.password=Tarun2005@

spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver

spring.jpa.hibernate.ddl-auto=update

spring.jpa.show-sql=true

spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL8Dialect

///Output







