Step 1 🡺 Create data base mydb

Step 2 🡺 create tables product and coupon based on the input from SpringCloud.sql

Step 3 🡺 Creating Project in Eclipse IDE

**Module 1:**

1) Create Coupon project from spring starter

Add the below dependencies

Spring Web

Spring Data JPA

MySQL

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2) Create the model, control and repository class

create a coupon class

@Entity

public class Coupon {

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY )

private long id;

private String code;

private BigDecimal discount;

@Column(name="exp\_date")

private String expDate;

// setter and getter

}

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3)create a spring repository

package com.example.repo;

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

import com.example.model.Coupon;

public interface CouponRepo extends JpaRepository<Coupon, Long> {

Coupon findByCode(String code); }

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4) Create Spring rest controller

package com.example.controller;

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

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

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

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

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

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

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

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

import com.example.model.Coupon;

import com.example.repo.CouponRepo;

@RestController

@RequestMapping("/couponapi")

public class CouponRestController {

@Autowired

CouponRepo repo;

@PostMapping("/coupons")

public Coupon create(@RequestBody Coupon coupon) {

return repo.save(coupon);

}

@GetMapping("/coupons/{code}")

public Coupon getCoupon(@PathVariable("code") String code) {

System.out.println("Server 2");

return repo.findByCode(code);

}

}

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**Configuring Data source**

**Application. Properties**

spring.datasource.url=jdbc:mysql://localhost:3306/mydb

spring.datasource.username=root

spring.datasource.password=Password123

spring.datasource.driverClassName=com.mysql.cj.jdbc.Driver

spring.jpa.database-platform=org.hibernate.dialect.MySQL5Dialect

spring.jpa.show-sql=true

server.port=8082

spring.application.name=coupon-service

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

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**Main Class**

@SpringBootApplication

**@EnableEurekaClient**

**public** **class** CoupenserviceApplication {

**public** **static** **void** main(String[] args) {

SpringApplication.*run*(CoupenserviceApplication.**class**, args);

}

}

**Module 2**

**Follow the previous steps and Create Product Class**

**Module 3**

Create a project Eureka Server

Add the Dependency **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);

}

}

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**In application.properties**

server.port=8761

eureka.client.register-with-eureka=false

eureka.client.fetch-registry=false