Spring Data JPA with Spring Boot, Hibernate

**Implement services for managing Country**

**application.properties**

spring.application.name=CountryService

spring.datasource.url=jdbc:mysql://localhost:3306/country\_db?useSSL=false&serverTimezone=UTC

spring.datasource.username=root

spring.datasource.password=Tsandhya@24

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

spring.jpa.hibernate.ddl-auto=update

spring.jpa.show-sql=true

**Country.java**

package com.country.CountryService.Entity;

import jakarta.persistence.Entity;

import jakarta.persistence.Id;

import jakarta.persistence.Table;

@Entity

@Table(name = "country")

public class Country {

@Id

private String coCode;

private String coName;

public String getCoCode() {

return coCode;

}

public void setCoCode(String coCode) {

this.coCode = coCode;

}

public String getCoName() {

return coName;

}

public void setCoName(String coName) {

this.coName = coName;

}

}

**CountryRepository.java**

package com.country.CountryService.Repo;

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

import com.country.CountryService.Entity.Country;

import java.util.List;

public interface CountryRepository extends JpaRepository<Country, String> {

List<Country> findByCoNameContainingIgnoreCase(String name);

}

**CountryService.java**

package com.country.CountryService.Service;

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

import org.springframework.stereotype.Service;

import com.country.CountryService.Entity.Country;

import com.country.CountryService.Repo.CountryRepository;

import java.util.List;

import java.util.Optional;

@Service

public class CountryService {

@Autowired

private CountryRepository countryRepository;

public Optional<Country> getCountryByCode(String code) {

return countryRepository.findById(code);

}

public Country addCountry(Country country) {

return countryRepository.save(country);

}

public Country updateCountry(String code, Country updatedCountry) {

if (countryRepository.existsById(code)) {

updatedCountry.setCoCode(code);

return countryRepository.save(updatedCountry);

}

return null;

}

public void deleteCountry(String code) {

countryRepository.deleteById(code);

}

public List<Country> searchCountriesByName(String name) {

return countryRepository.findByCoNameContainingIgnoreCase(name);

}

}

**CountryController.java**

package com.country.CountryService.Controller;

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

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

import com.country.CountryService.Entity.Country;

import com.country.CountryService.Service.CountryService;

import java.util.List;

import java.util.Optional;

@RestController

@RequestMapping("/api/countries")

public class CountryController {

@Autowired

private CountryService countryService;

@GetMapping("/{code}")

public Optional<Country> getByCode(@PathVariable String code) {

return countryService.getCountryByCode(code);

}

@PostMapping

public Country addCountry(@RequestBody Country country) {

return countryService.addCountry(country);

}

@PutMapping("/{code}")

public Country updateCountry(@PathVariable String code, @RequestBody Country country) {

return countryService.updateCountry(code, country);

}

@DeleteMapping("/{code}")

public void deleteCountry(@PathVariable String code) {

countryService.deleteCountry(code);

}

@GetMapping("/search")

public List<Country> searchByName(@RequestParam String name) {

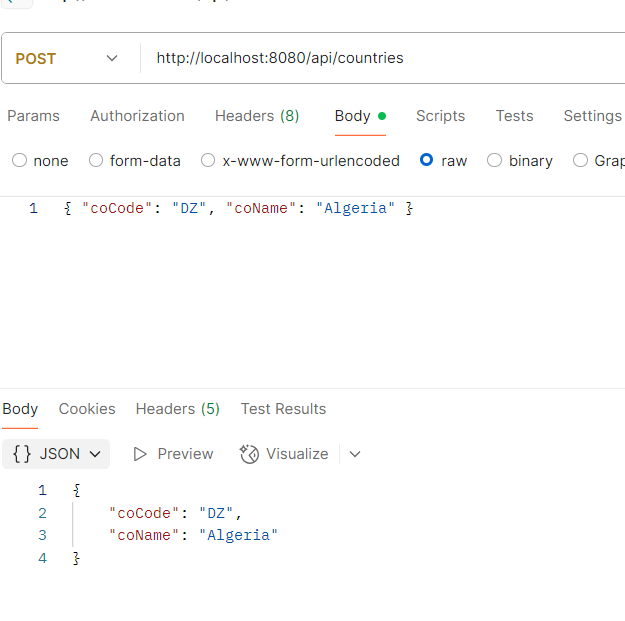
return countryService.searchCountriesByName(name);

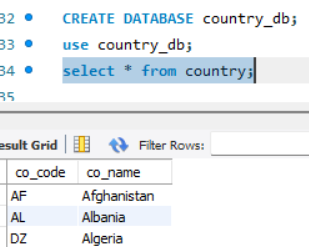
}

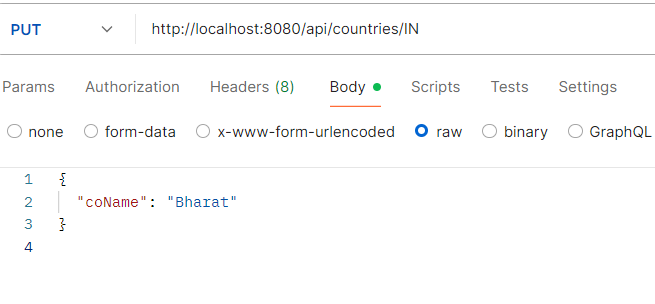
}

**OUTPUT**

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