Spring Data JPA with Spring Boot, Hibernate

SuperSet ID:6412063

Implement services for managing Country

application.properties

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

spring.datasource.username=root

spring.datasource.password=your\_password

spring.jpa.hibernate.ddl-auto=update

spring.jpa.show-sql=true

spring.jpa.properties.hibernate.format\_sql=true

Country.java

package com.example.model;

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.example.repository;

import com.example.model.Country;

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

import java.util.List;

public interface CountryRepository extends JpaRepository<Country, String> {

List<Country> findByCoNameContainingIgnoreCase(String partialName);

}

CountryService.java

package com.example.service;

import com.example.model.Country;

import com.example.repository.CountryRepository;

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

import org.springframework.stereotype.Service;

import java.util.List;

import java.util.Optional;

@Service

public class CountryService {

@Autowired

private CountryRepository countryRepository;

public Country getCountryByCode(String code) {

return countryRepository.findById(code).orElse(null);

}

public List<Country> getAllCountries() {

return countryRepository.findAll();

}

public Country addCountry(Country country) {

return countryRepository.save(country);

}

public Country updateCountry(Country country) {

return countryRepository.save(country);

}

public void deleteCountry(String code) {

countryRepository.deleteById(code);

}

public List<Country> searchByName(String name) {

return countryRepository.findByCoNameContainingIgnoreCase(name);

}

}

CountryController.java

package com.example.controller;

import com.example.model.Country;

import com.example.service.CountryService;

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

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

import java.util.List;

@RestController

@RequestMapping("/countries")

public class CountryController {

@Autowired

private CountryService countryService;

@GetMapping("/{code}")

public Country getCountryByCode(@PathVariable String code) {

return countryService.getCountryByCode(code);

}

@GetMapping

public List<Country> getAllCountries() {

return countryService.getAllCountries();

}

@PostMapping

public Country addCountry(@RequestBody Country country) {

return countryService.addCountry(country);

}

@PutMapping

public Country updateCountry(@RequestBody Country country) {

return countryService.updateCountry(country);

}

@DeleteMapping("/{code}")

public void deleteCountry(@PathVariable String code) {

countryService.deleteCountry(code);

}

@GetMapping("/search")

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

return countryService.searchByName(name);

}

}

MYSQL

CREATE DATABASE countrydb;

SHOW DATABASES;

CREATE TABLE country (

co\_code VARCHAR(10) PRIMARY KEY,

co\_name VARCHAR(100)

);

INSERT INTO country (co\_code, co\_name) VALUES ('AF', 'Afghanistan');

INSERT INTO country (co\_code, co\_name) VALUES ('AL', 'Albania');

INSERT INTO country (co\_code, co\_name) VALUES ('DZ', 'Algeria');

INSERT INTO country (co\_code, co\_name) VALUES ('AS', 'American Samoa');

INSERT INTO country (co\_code, co\_name) VALUES ('AD', 'Andorra');

INSERT INTO country (co\_code, co\_name) VALUES ('AO', 'Angola');

INSERT INTO country (co\_code, co\_name) VALUES ('AI', 'Anguilla');

INSERT INTO country (co\_code, co\_name) VALUES ('AQ', 'Antarctica');

INSERT INTO country (co\_code, co\_name) VALUES ('AG', 'Antigua and Barbuda');

INSERT INTO country (co\_code, co\_name) VALUES ('AR', 'Argentina');

Output:

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Description automatically generated

A screenshot of a computer

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A computer screen shot of a black screen

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