**Find a country based on country code :**

**CountryController.java:**

package com.example.controller;

import com.example.entity.Country;

import com.example.service.CountryService;

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

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

import com.example.exception.CountryNotFoundException;

import java.util.List;

*@RestController*

*@RequestMapping*("/countries")

public class CountryController {

*@Autowired*

private CountryService service;

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

public Country getCountry(*@PathVariable* String code) throws CountryNotFoundException {

return service.getCountryByCode(code);

}

*@PostMapping*

public Country addCountry(*@RequestBody* Country country) {

return service.addCountry(country);

}

*@PutMapping*

public Country updateCountry(*@RequestBody* Country country) {

return service.updateCountry(country);

}

*@DeleteMapping*("/{code}")

public void deleteCountry(*@PathVariable* String code) {

service.deleteCountry(code);

}

*@GetMapping*("/search")

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

return service.searchCountriesByName(name);

}

}

**CountryManagementApplication.java:**

package com.example;

import com.example.entity.Country;

import com.example.exception.CountryNotFoundException;

import com.example.service.CountryService;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

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

import org.springframework.boot.CommandLineRunner;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

*@SpringBootApplication*

public class CountryManagementApplication implements CommandLineRunner {

private static final Logger LOGGER = LoggerFactory.*getLogger*(CountryManagementApplication.class);

*@Autowired*

private CountryService countryService;

public static void main(String[] args) {

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

}

*@Override*

public void run(String... args) throws Exception {

try {

Country country = countryService.getCountryByCode("IN");

LOGGER.info("Fetched Country: {}", country);

} catch (CountryNotFoundException e) {

LOGGER.error("Error: {}", e.getMessage());

}

}

}

**Country.java:**

package com.example.entity;

import jakarta.persistence.Entity;

import jakarta.persistence.Id;

import jakarta.persistence.Column;

import jakarta.persistence.Table;

*@Entity*

*@Table*(name = "COUNTRY")

public class Country {

*@Id*

*@Column*(name = "CO\_CODE")

private String code;

*@Column*(name = "CO\_NAME")

private String name;

public String getCode() {

return code;

}

public void setCode(String code) {

this.code = code;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

}

**data.sql:**

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 ('IN', 'India');

