**Spring-data-jpa-handson**:

**Country.java**

package com.example.country.model;

import jakarta.persistence.Entity;

import jakarta.persistence.Id;

@Entity

public class Country {

@Id

private String code;

private String name;

public Country() {

}

public Country(String code, String name) {

this.code = code;

this.name = name;

}

// Getters and Setters

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;

}

}

**CountryRepository.java:**

package com.example.country.repository;

import com.example.country.model.Country;

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

public interface CountryRepository extends JpaRepository<Country, String> {

Country findByCode(String code);

}

CountryService.java:

package com.example.country.service;

import com.example.country.model.Country;

public interface CountryService {

Country findByCode(String code);

Country addCountry(Country country);

}

**CountryServiceImpl.java:**

package com.example.country.service;

import com.example.country.model.Country;

import com.example.country.repository.CountryRepository;

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

import org.springframework.stereotype.Service;

@Service

public class CountryServiceImpl implements CountryService {

@Autowired

private CountryRepository countryRepository;

@Override

public Country findByCode(String code) {

return countryRepository.findByCode(code);

}

@Override

public Country addCountry(Country country) {

return countryRepository.save(country);

}

}

**CountryController.java:**

package com.example.country.controller;

import com.example.country.model.Country;

import com.example.country.service.CountryService;

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

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

@RestController

@RequestMapping("/countries")

public class CountryController {

@Autowired

private CountryService countryService;

// 1. Find by country code

@GetMapping("/{code}")

public Country getCountryByCode(@PathVariable String code) {

return countryService.findByCode(code);

}

// 2. Add new country

@PostMapping

public Country addCountry(@RequestBody Country country) {

return countryService.addCountry(country);

}

}

**application.properties:**

spring.datasource.url=jdbc:h2:mem:testdb

spring.datasource.driverClassName=org.h2.Driver

spring.datasource.username=sa

spring.datasource.password=

spring.jpa.database-platform=org.hibernate.dialect.H2Dialect

spring.h2.console.enabled=true

spring.jpa.hibernate.ddl-auto=update

**Find a Country by Code**

GET /countries/US

**Response:**

{

"code": "US",

"name": "United States"

}

**Add a New Country**

POST /countries

Content-Type: application/json

{

"code": "IN",

"name": "India"

}

**Response:**

{

"code": "IN",

"name": "India"

}