**REST – Country Web Service**

**Spring REST using Spring Boot 3**

Vaishnavi

12/7/2025

This project is a Spring Boot RESTful web service that returns a list of countries in JSON format. The application uses a simple GET API endpoint to provide data representing country codes and names, with logging to trace method execution.

**Objective:**

* To build a RESTful endpoint /countries that returns a hardcoded list of 20 countries.
* To define a Country model class for representing country data with code and name attributes.
* To implement logging using SLF4J to track the execution flow of the API controller method.

**Implementation:**

### Generate Project from Spring Initializr

Go to: [https://start.spring.io](https://start.spring.io" \t "_new)

Add Dependencies:

Spring Web

Spring Boot DevTools.

Click **Generate**, and download the .zip file.

Extract the zip file to a suitable folder.

### Open Project in IntelliJ IDEA

Open IntelliJ IDEA.

Click **File > Open**.

Browse and select the extracted spring-learn folder.

IntelliJ will auto-detect it as a Maven project and build it.

If prompted to import as Maven project, click **Yes** or **Import**.

**SpringLearnApplication.java:**

package com.cognizant.spring\_learn;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class SpringLearnApplication {

public static void main(String[] args) {

SpringApplication.run(SpringLearnApplication.class, args);

}

}

**Country.java:**

package com.cognizant.spring\_learn;

public class Country {

private String code;

private String name;

public Country() {}

public Country(String code, String name) {

this.code = code;

this.name = 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;

}

}

**CountryController.java:**

package com.cognizant.spring\_learn;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

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

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

import java.util.Arrays;

import java.util.List;

@RestController

public class CountryController {

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

@GetMapping("/countries")

public List<Country> getAllCountries() {

LOGGER.info("START getAllCountries()");

List<Country> countries = Arrays.asList(

new Country("IN", "India"),

new Country("US", "United States"),

new Country("UK", "United Kingdom"),

new Country("CA", "Canada"),

new Country("AU", "Australia"),

new Country("FR", "France"),

new Country("ZA", "South Africa"),

new Country("BR", "Brazil"),

new Country("MX", "Mexico"),

new Country("KR", "South Korea"),

new Country("AE", "UAE"),

new Country("SG", "Singapore"),

new Country("NZ", "New Zealand"),

new Country("ES", "Spain"),

new Country("SE", "Sweden")

);

LOGGER.info("END getAllCountries()");

return countries;

}

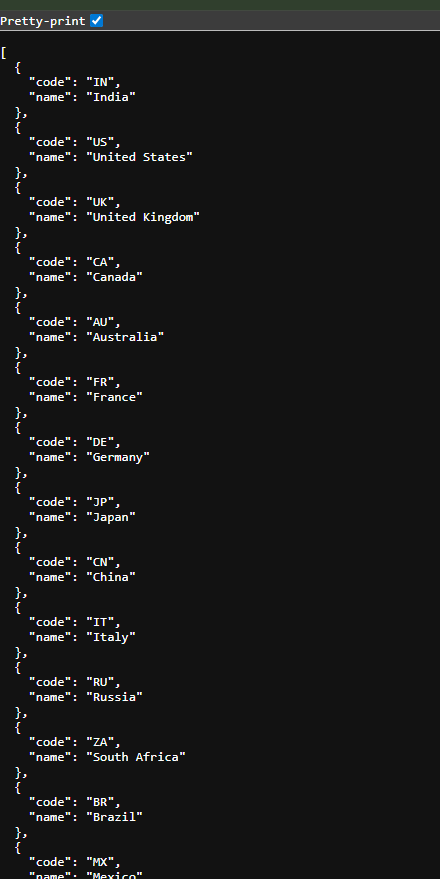
}

**Application.properties:**

spring.application.name=spring-learn

server.port=8083

**Output:**

****