# Springrest-4

REST Country

Pom.xml

<?xml version="1.0" encoding="UTF-8"?>

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<parent>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-parent</artifactId>

<version>3.5.3</version>

<relativePath/> <!-- lookup parent from repository -->

</parent>

<groupId>com.cognizant</groupId>

<artifactId>spring-learn</artifactId>

<version>0.0.1-SNAPSHOT</version>

<name>spring-learn</name>

<description>Demo project for Spring Boot</description>

<url/>

<licenses>

<license/>

</licenses>

<developers>

<developer/>

</developers>

<scm>

<connection/>

<developerConnection/>

<tag/>

<url/>

</scm>

<properties>

<java.version>21</java.version>

</properties>

<dependencies>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-web</artifactId>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-devtools</artifactId>

<scope>runtime</scope>

<optional>true</optional>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-test</artifactId>

<scope>test</scope>

</dependency>

<dependency>

<groupId>jakarta.validation</groupId>

<artifactId>jakarta.validation-api</artifactId>

<version>3.0.2</version>

</dependency>

<dependency>

<groupId>org.hibernate.validator</groupId>

<artifactId>hibernate-validator</artifactId>

<version>8.0.1.Final</version>

</dependency>

<dependency>

<groupId>org.glassfish</groupId>

<artifactId>jakarta.el</artifactId>

<version>4.0.2</version>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-maven-plugin</artifactId>

</plugin>

</plugins>

</build>

</project>

/src/main/resouces

Application.properties

spring.application.name=spring-learn

server.port=8090

logging.level.com.cognizant.spring\_learn=DEBUG

logging.level.org.springframework=INFO

/java/com/cognizant/spring\_learn

SpringLearnApplication.java

package com.cognizant.spring\_learn;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.context.ApplicationContext;

import org.springframework.context.annotation.ImportResource;

@SpringBootApplication

public class SpringLearnApplication {

public static void main(String[] args) {

SpringApplication.run(SpringLearnApplication.class, args);

}

}

/controller/CountryController.java

package com.cognizant.spring\_learn.controller;

import com.cognizant.spring\_learn.model.Country;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

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

import jakarta.validation.Valid;

@RestController

public class CountryController {

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

@PostMapping("/countries")

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

LOGGER.info("Start addCountry()");

LOGGER.debug("Country received: {}", country.toString());

LOGGER.info("End addCountry()");

return country;

}

}

Exception/GlobalExceptionHandler.java

package com.cognizant.spring\_learn.exception;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

import org.springframework.http.\*;

import org.springframework.web.bind.MethodArgumentNotValidException;

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

import org.springframework.web.context.request.WebRequest;

import org.springframework.web.servlet.mvc.method.annotation.ResponseEntityExceptionHandler;

import java.util.\*;

import java.util.stream.Collectors;

@ControllerAdvice

public class GlobalExceptionHandler extends ResponseEntityExceptionHandler {

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

protected ResponseEntity<Object> handleMethodArgumentNotValid(

MethodArgumentNotValidException ex,

HttpHeaders headers,

HttpStatus status,

WebRequest request

) {

LOGGER.info("Start GlobalExceptionHandler");

Map<String, Object> body = new LinkedHashMap<>();

body.put("timestamp", new Date());

body.put("status", status.value());

List<String> errors = ex.getBindingResult()

.getFieldErrors()

.stream()

.map(x -> x.getDefaultMessage())

.collect(Collectors.toList());

body.put("errors", errors);

LOGGER.info("End GlobalExceptionHandler");

return new ResponseEntity<>(body, headers, status);

}

}

/model/Country.java

package com.cognizant.spring\_learn.model;

import jakarta.validation.constraints.NotNull;

import jakarta.validation.constraints.Size;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class Country {

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

@NotNull

@Size(min = 2, max = 2, message = "Country code should be 2 characters")

private String code;

private String name;

public Country() {

LOGGER.debug("Inside Country Constructor");

}

public String getCode() {

LOGGER.debug("Getting code");

return code;

}

public void setCode(String code) {

LOGGER.debug("Setting code: {}", code);

this.code = code;

}

public String getName() {

LOGGER.debug("Getting name");

return name;

}

public void setName(String name) {

LOGGER.debug("Setting name: {}", name);

this.name = name;

}

@Override

public String toString() {

return code + " - " + name;

}

}

Output:



