**REST - Get country exceptional scenario   
  
In the previous hands on where we implemented getting country based on country code, what happens if the country code provided in the URL is not present.**

**SpringLearnApplication.java**

package com.cognizant.spring\_learn;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.context.annotation.ImportResource;

@SpringBootApplication

@ImportResource("classpath:country.xml")  // <--- This is important!

public class SpringLearnApplication {

    public static void main(String[] args) {

        SpringApplication.run(SpringLearnApplication.class, args);

    }

}

**CountryController.java**

package com.cognizant.spring\_learn.controller;

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

import com.cognizant.spring\_learn.service.CountryService;

import com.cognizant.spring\_learn.service.exception.CountryNotFoundException;

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

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

@RestController

public class CountryController {

    @Autowired

    private CountryService countryService;

    @GetMapping("/countries/{code}")

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

        return countryService.getCountry(code);

    }

}

**Country.java**

package com.cognizant.spring\_learn.model;

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;

    }

}

**CountryNotFoundException.java**

package com.cognizant.spring\_learn.service.exception;

import org.springframework.http.HttpStatus;

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

@ResponseStatus(value = HttpStatus.NOT\_FOUND, reason = "Country not found")

public class CountryNotFoundException extends Exception {

    public CountryNotFoundException() {

        super("Country not found");

    }

}

**CountryService.java**

package com.cognizant.spring\_learn.service;

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

import com.cognizant.spring\_learn.service.exception.CountryNotFoundException;

import org.springframework.stereotype.Service;

import java.util.ArrayList;

import java.util.List;

@Service

public class CountryService {

    private static List<Country> countryList = new ArrayList<>();

    static {

        countryList.add(new Country("IN", "India"));

        countryList.add(new Country("US", "United States"));

        countryList.add(new Country("CN", "China"));

        countryList.add(new Country("JP", "Japan"));

    }

    public Country getCountry(String code) throws CountryNotFoundException {

        for (Country country : countryList) {

            if (country.getCode().equalsIgnoreCase(code)) {

                return country;

            }

        }

        throw new CountryNotFoundException();

    }

}

**country.xml**

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

<beans xmlns="http://www.springframework.org/schema/beans"

       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

       xsi:schemaLocation="

           http://www.springframework.org/schema/beans

           http://www.springframework.org/schema/beans/spring-beans.xsd">

    <bean id="countryList" class="java.util.ArrayList">

        <constructor-arg>

            <list>

                <bean class="com.cognizant.spring\_learn.model.Country">

                    <property name="code" value="IN" />

                    <property name="name" value="India" />

                </bean>

                <bean class="com.cognizant.spring\_learn.model.Country">

                    <property name="code" value="US" />

                    <property name="name" value="United States" />

                </bean>

                <bean class="com.cognizant.spring\_learn.model.Country">

                    <property name="code" value="JP" />

                    <property name="name" value="Japan" />

                </bean>

                <bean class="com.cognizant.spring\_learn.model.Country">

                    <property name="code" value="DE" />

                    <property name="name" value="Germany" />

                </bean>

            </list>

        </constructor-arg>

    </bean>

</beans>

**spring-config.xml**

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

<beans xmlns="http://www.springframework.org/schema/beans"

       xmlns:context="http://www.springframework.org/schema/context"

       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

       xsi:schemaLocation="

         http://www.springframework.org/schema/beans

         http://www.springframework.org/schema/beans/spring-beans.xsd">

    <bean id="in" class="com.cognizant.spring\_learn.model.Country">

        <property name="code" value="IN"/>

        <property name="name" value="India"/>

    </bean>

</beans>

**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>3.5.4</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>17</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>

    </dependencies>

    <build>

        <plugins>

            <plugin>

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

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

            </plugin>

        </plugins>

    </build>

</project>

**application.properties**

spring.application.name=spring-learn

logging.level.org.springframework=info

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

logging.pattern.console=%d{yyMMdd}|%d{HH:mm:ss.SSS}|%-20.20thread|%5p|%-25.25logger{25}|%25M|%m%n

server.error.include-stacktrace=never

server.port=8083

**Output:**

