**Spring REST using Spring Boot 3**

# **Hands-on 3: Hello World RESTful Web Service**

### ***HelloController.java:***

| package com.cognizant.springlearn.controller;  import org.slf4j.Logger; import org.slf4j.LoggerFactory; import org.springframework.web.bind.annotation.\*;  @RestController public class HelloController {   private static final Logger LOGGER = LoggerFactory.getLogger(HelloController.class);   @GetMapping("/hello")  public String sayHello() {  LOGGER.info("START sayHello()");  String message = "Hello World!!";  LOGGER.info("END sayHello()");  return message;  } } |
| --- |

### 

### ***Output:***

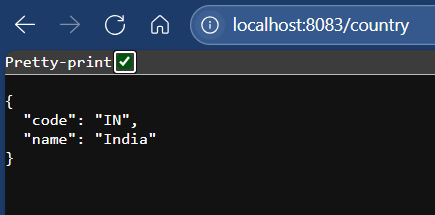
# 

# **Hands-on 4: REST - Country Web Service**

### ***CountryController.java:***

| package com.cognizant.springlearn.controller;  import com.cognizant.springlearn.Country; import org.springframework.web.bind.annotation.\*; import org.springframework.context.ApplicationContext; import org.springframework.context.support.ClassPathXmlApplicationContext;  @RestController public class CountryController {   @RequestMapping("/country")  public Country getCountryIndia() {  ApplicationContext context = new ClassPathXmlApplicationContext("country.xml");  Country country = context.getBean("country", Country.class);  return country;  } } |
| --- |

### ***Output:***



# **Hands-on 5: REST - Get country based on country code**

### ***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="country" class="com.cognizant.springlearn.Country">  <property name="code" value="IN"/>  <property name="name" value="India"/>  </bean>   <bean id="countryList" class="java.util.ArrayList">  <constructor-arg>  <list>  <bean class="com.cognizant.springlearn.Country">  <property name="code" value="IN"/>  <property name="name" value="India"/>  </bean>  <bean class="com.cognizant.springlearn.Country">  <property name="code" value="US"/>  <property name="name" value="United States"/>  </bean>  <bean class="com.cognizant.springlearn.Country">  <property name="code" value="UK"/>  <property name="name" value="United Kingdom"/>  </bean>  </list>  </constructor-arg>  </bean>  </beans> |
| --- |

### ***Country.java:***

| package com.cognizant.springlearn;  public class Country {  private String code;  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;  } } |
| --- |

### ***CountryService.java:***

| package com.cognizant.springlearn.service;  import com.cognizant.springlearn.Country; import org.springframework.stereotype.Service; import org.springframework.context.ApplicationContext; import org.springframework.context.support.ClassPathXmlApplicationContext; import java.util.List;  @Service public class CountryService {   public Country getCountry(String code) {  ApplicationContext context = new ClassPathXmlApplicationContext("country.xml");  List<Country> countryList = context.getBean("countryList", List.class);   return countryList.stream()  .filter(c -> c.getCode().equalsIgnoreCase(code))  .findFirst()  .orElse(null);  } } |
| --- |

### ***CountryController.java:***

| package com.cognizant.springlearn.controller;  import com.cognizant.springlearn.Country; import com.cognizant.springlearn.service.CountryService; 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) {  return countryService.getCountry(code);  } } |
| --- |

### ***Output:***

