**1. What happens in the controller method?**

The controller method getCountryIndia() is triggered when a GET request is made to /country. It retrieves the Country bean (representing India) from the Spring XML configuration. The bean is defined in applicationContext.xml with properties like code="IN" and name="India". The method returns this bean, which Spring automatically converts to JSON.

Example:

java

@RestController

public class CountryController {

@Autowired

@Qualifier("in") // Loads the bean with id="in" from XML

private Country india;

@RequestMapping("/country")

public Country getCountryIndia() {

return india; // Returns India bean → JSON

}

}

**2. How the bean is converted into JSON response?**

Spring uses the Jackson library (auto-configured in Spring Boot) to convert Java objects to JSON. When the controller returns the Country bean, Spring detects the need for JSON serialization. Jackson maps the bean's fields (code, name) to JSON key-value pairs. The @RestController annotation includes @ResponseBody, which enables this conversion.

**Example:**

Bean (defined in applicationContext.xml):

xml

<bean id="in" class="com.cognizant.springlearn.entity.Country">

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

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

</bean>

JSON Output:

json

{

"code": "IN", "name": "India"

}