

SME Explanation

1. What happens in the controller method?

- `@RequestMapping("/country")` maps GET requests to `/country` URL.
- Inside `getCountryIndia()`, Spring loads the XML config (`country.xml`) using `ClassPathXmlApplicationContext`.
- Retrieves the bean with id `"in"` and returns it as a `Country` object.

2. How is the bean converted to JSON?

- The method returns a Java object (`Country`)
- Spring Boot auto-configures Jackson (a JSON library) to convert Java objects to JSON
- Because we use `@RestController`, the return value is automatically serialized to JSON and sent in the response

In Chrome:

- Open Google Chrome
- Go to URL: `http://localhost:8083/country`
- Go to Inspect and then click Network tab in DevTools
- Refresh the page
- We'll see a request named hello
- Click on the hello row
- Select the Headers tab

Output:

The screenshot shows the Chrome DevTools interface with the Network tab selected. A request named 'country' is highlighted. The Headers tab is active, showing the following details:

General	
Request URL	http://localhost:8083/country
Request Method	GET
Status Code	200 OK
Remote Address	::1:8083
Referrer Policy	strict-origin-when-cross-origin

Response Headers	
Connection	keep-alive
Content-Type	application/json
Date	Sat, 12 Jul 2025 14:04:21 GMT
Keep-Alive	timeout=60
Transfer-Encoding	chunked

The response body is a JSON object: `{ "code": "IN", "name": "India" }`.

In Postman:

- Open Postman
- Set Method to GET
- Enter URL: `http://localhost:8083/country`
- Click Send
- We'll get the response: Hello World!!

Output:

The screenshot shows a Postman interface with a GET request to `http://localhost:8083/country`. The response is in JSON format, displaying the following data:

```
1 {  
2   "code": "IN",  
3   "name": "India"  
4 }
```

The screenshot shows the same Postman interface, but with the Headers tab selected. The response headers are as follows:

Key	Value
Content-Type	application/json
Transfer-Encoding	chunked
Date	Sat, 12 Jul 2025 14:00:31 GMT
Keep-Alive	timeout=60
Connection	keep-alive