

SME Explanation

1. What happens in the controller method?

- i) The `@RequestMapping("/country")` annotation maps HTTP GET requests to the `/country` URL.
- ii) Within the `getCountryIndia()` method, Spring uses `ClassPathXmlApplicationContext` to load the `country.xml` configuration file from the classpath.
- iii) It then retrieves the bean defined with the ID "in" from the XML configuration and returns it as an instance of the `Country` class.

2. How is the bean converted to JSON?

- i) The controller method returns a `Country` Java object.
- ii) Spring Boot, through its auto-configuration, uses the Jackson library to handle JSON conversion.
- iii) Since the class is annotated with `@RestController`, the returned object is automatically serialized into JSON and included in the HTTP 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:

In Postman:

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

Output:

Pretty-print

```
{ "code": "IN", "name": "India" }
```

Elements

Console

Sources

Network

Performance

Memory

Application

Private

Filter

Invert

More filters

All

Fetch/XHR

Doc

CSS

JS

For

10 ms

20 ms

30 ms

40 ms

50 ms

60 ms

70 ms

Name

X

Headers

Preview

Response

Initiator

Timing

Cookies

co...

▼ 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

Raw

Connection

keep-alive

Content-Type

application/json

Date

Sat, 12 Jul 2025 15:10:38 GMT

Keep-Alive

timeout=60

Transfer-Encoding

chunked

▼ Request Headers

Raw

Accept

text/html,application/xhtml+xml,application/xml;q=0.9, application/signed-exchange;v=b3;q=0.7

Accept-Encoding

gzip, deflate, br, zstd

Accept-Language

en-US,en;q=0.9

Cache-Control

max-age=0

Connection

keep-alive

HTTP

http://localhost:8083/country

GET

▼

http://localhost:8083/country

Params

Authorization

Headers (6)

Body

Scripts

Settings

Query Params

	Key	Value
	Key	Value

Body

Cookies

Headers (5)

Test Results

↺

{ } JSON

▼

▶ Preview

🔗 Visualize

▼

1

{

2

"code": "IN",

3

"name": "India"

4

}



http://localhost:8083/country

GET



http://localhost:8083/country

Params

Authorization

Headers (6)

Body

Scripts

Settings

Query Params

	Key	Value	Description
	Key	Value	Description

Body

Cookies

Headers (5)

Test Results



Key	Value
Content-Type	application/json
Transfer-Encoding	chunked
Date	Sat, 12 Jul 2025 15:16:30 GMT
Keep-Alive	timeout=60
Connection	keep-alive