1. spring-rest-handson

Hands on 1

Create a Spring Web Project using Maven









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Output:



Spring Core – Load Country from Spring Configuration XML

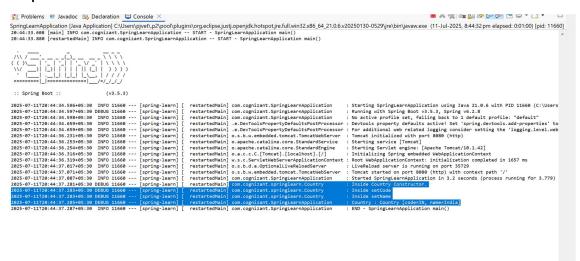
An airlines website is going to support booking on four countries. There will be a drop down on the home page of this website to select the respective country. It is also important to store the two-character ISO code of each country.

Code	Name		
US	United States		
DE	Germany		
IN	India		
JP	Japan		

Above data has to be stored in spring configuration file. Write a program to read this configuration file and display the details.



Output:



2.spring-rest-handson

Hello World RESTful Web Service

Write a REST service in the spring learn application created earlier, that returns the text "Hello World!!" using Spring Web Framework. Refer details below:

Method: GET **URL:** /hello

Controller: com.cognizant.spring-learn.controller.HelloController

Method Signature: public String sayHello()

Method Implementation: return hard coded string "Hello World!!"

Sample Request: http://localhost:8083/hello

Sample Response: Hello World!!









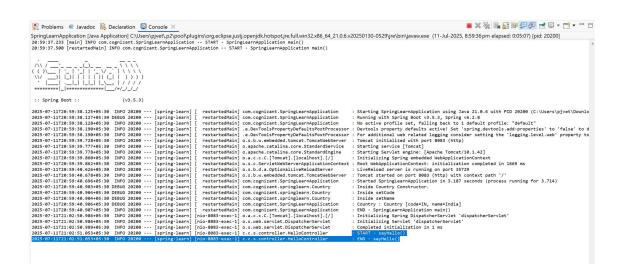
onTests.java



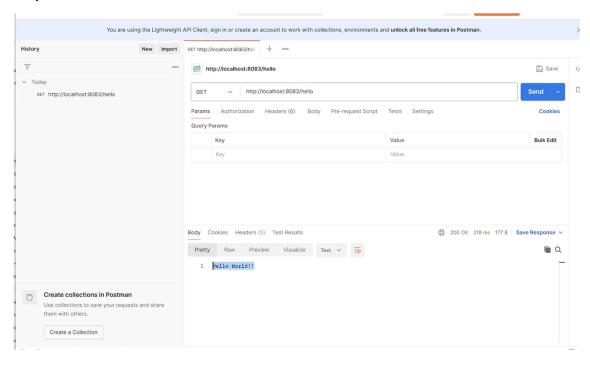




Output1:



Output2:



REST - Country Web Service

Write a REST service that returns India country details in the earlier created spring learn application.

```
URL: /country
Controller: com.cognizant.spring-learn.controller.CountryController
Method Annotation: @RequestMapping
Method Name: getCountryIndia()
Method Implementation: Load India bean from spring xml configuration and return
Sample Request: http://localhost:8083/country
Sample Response:
{
    "code": "IN",
    "name": "India"
```









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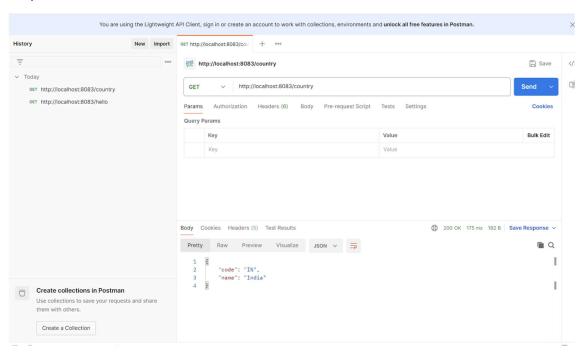


application.propertie SpringLearnApplicati s on.java

Output1:



Output2:



REST - Get country based on country code

Write a REST service that returns a specific country based on country code. The country code should be case insensitive.

Controller: com.cognizant.spring-learn.controller.CountryController

Method Annotation: @GetMapping("/countries/{code}")

Method Name: getCountry(String code)

Method Implemetation: Invoke countryService.getCountry(code)

Service Method: com.cognizant.spring-learn.service.CountryService.getCountry(String code)

Service Method Implementation:

- Get the country code using @PathVariable
- Get country list from country.xml
- Iterate through the country list
- Make a case insensitive matching of country code and return the country.
- Lambda expression can also be used instead of iterating the country list

Sample Request: http://localhost:8083/country/in

```
Sample Response:
```

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













CountryService.java CountryController.jav

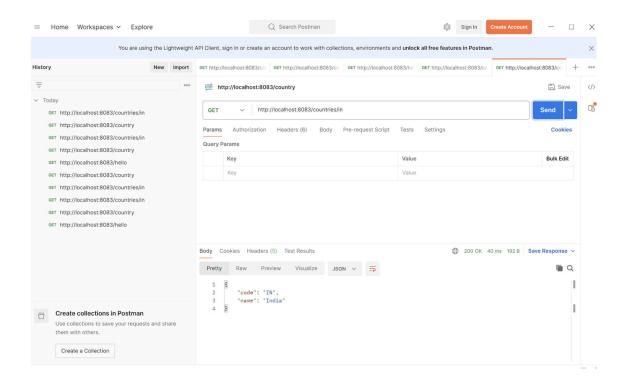
Country.java

application.propertie

Output1:



Output2:



5. JWT-handson

Create authentication service that returns JWT

As part of first step of JWT process, the user credentials needs to be sent to authentication service request that generates and returns the JWT.

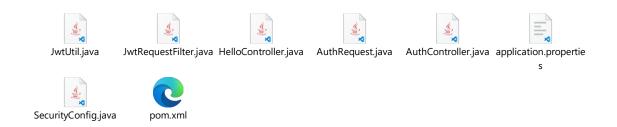
Ideally when the below curl command is executed that calls the new authentication service, the token should be responded. Kindly note that the credentials are passed using -u option.

Request

curl -s -u user:pwd http://localhost:8090/authenticate

Response

{"token":"eyJhbGciOiJIUzl1NiJ9.eyJzdWliOiJ1c2VyliwiaWF0ljoxNTcwMzc5NDc0LCJleHAiOjE1NzAzOD A2NzR9.t3LRvlCV-hwKfoqZYlaVQqEUiBloWcWn0ft3tgv0dL0"}



Output:

