Unit Test Case

Test Case Title: Fetch Countries / Fetch Country Information by Name

Test Case Description: This test case verifies that the Country Service can successfully fetch detailed information for a country by its name from a database.

Preconditions:

The Country Service is up and running

Test Steps:

Mock the response from the GET API for a specific country (e.g., Finland).

Call the getCountryByName method of the Country Service with the country name as input (e.g., "Finland").

Obtain the response from the service.

Verify that the service returns the expected country information.

Expected Results:

The service should return detailed information for the specified country, including its name, country code, capital, population, and flag file URL.

The service should make a call to the API with the correct URL. (http://localhost:8080/api/countries/{name})

The returned country information should match the mocked response from the API.

Test Data:

Country Name: "Finland"

Mocked API Response:

json

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```json
{
    "name": "Finland",
    "country_code": "FI",
    "capital": "Helsinki",
    "population": 5491817,
    "flag_file_url": "https://example.com/finland-flag.png"
}
```

Test Pass Criteria:

The service should return the expected country information.

The RestTemplate should be called with the correct URL.

All assertions in the test pass successfully.

Test Fail Criteria:

The service does not return the expected country information.

The RestTemplate is not called with the correct URL.

Any of the assertions in the test fail.