04/18/2018  
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RESTful API Testing Day 2.  
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How do you test rest api?

I verify if each REST API endpoint is working as expected.  
I send POST,PUT,GET, DETELE type of requests and verify reponse status code and response body.  
I also do positive and negative testing of API.  
When I do positive testing, I send valid request parameters , valid headers, valid request json body and verify that response status code is 200 and Json response body data is as expected.

When I do negative testing, I send invalid request parameters , or invalid headers, or invalid request json body and verify that response status code is not 200 and Json response body contains error message.  
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Oracle ORDS Rest API ->   
ORDS -> oracle Rest Data Services

Ords is a tool/technology that Oracle built to make easy for creating RESTful APIs on Oracle databases.  
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GET - Positive Scenario:

When I send a GET request to REST Url http://34.223.219.142:1212/ords/hr/employees  
Then reponse status should be 200  
And response json body should contain employees data  
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When I send a GET request to REST Api Url  
http://34.223.219.142:1212/ords/hr/countries/AU  
Then response status should be 200  
And Country name should be "Australia" for country id "AU"   
in Json response body

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GET REQUEST WITH HEADERS  
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Content-Type, Accept

header are also in key+value format, they are used to provide additional information about request/response.

Accept -> application/json  
-> application/xml

I am expecting JSON/XML data back. And API needs to support it, otherwise it will send back default one.  
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When I send a GET request to REST Api Url  
http://34.223.219.142:1212/ords/hr/countries/US  
And Accept type is "application/json"  
Then response status code should be 200  
And Country name should be "United States of America" and country id should be "US" in Json response body  
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REST ASSURED LIBRARY.  
We will automate RESTful API testing using REST ASSURED library in Java.

It is a BDD style library  
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<dependency>  
<groupId>io.rest-assured</groupId>  
<artifactId>rest-assured</artifactId>  
<version>3.0.7</version>  
<scope>test</scope>  
</dependency>

APACHE CLIENT is another library in Java for REST apis/Services testing.

We are starting to automate REST services/REST apis.  
We are using RESTAssured Library in Java.