***A Web application page is displaying a standard web form with String input fields and a “Submit” button. User enters data into input fields, clicks Submit, and nothing happens. List the steps you would follow to debug why the web form is not working.***

**Possible Reason 1:**

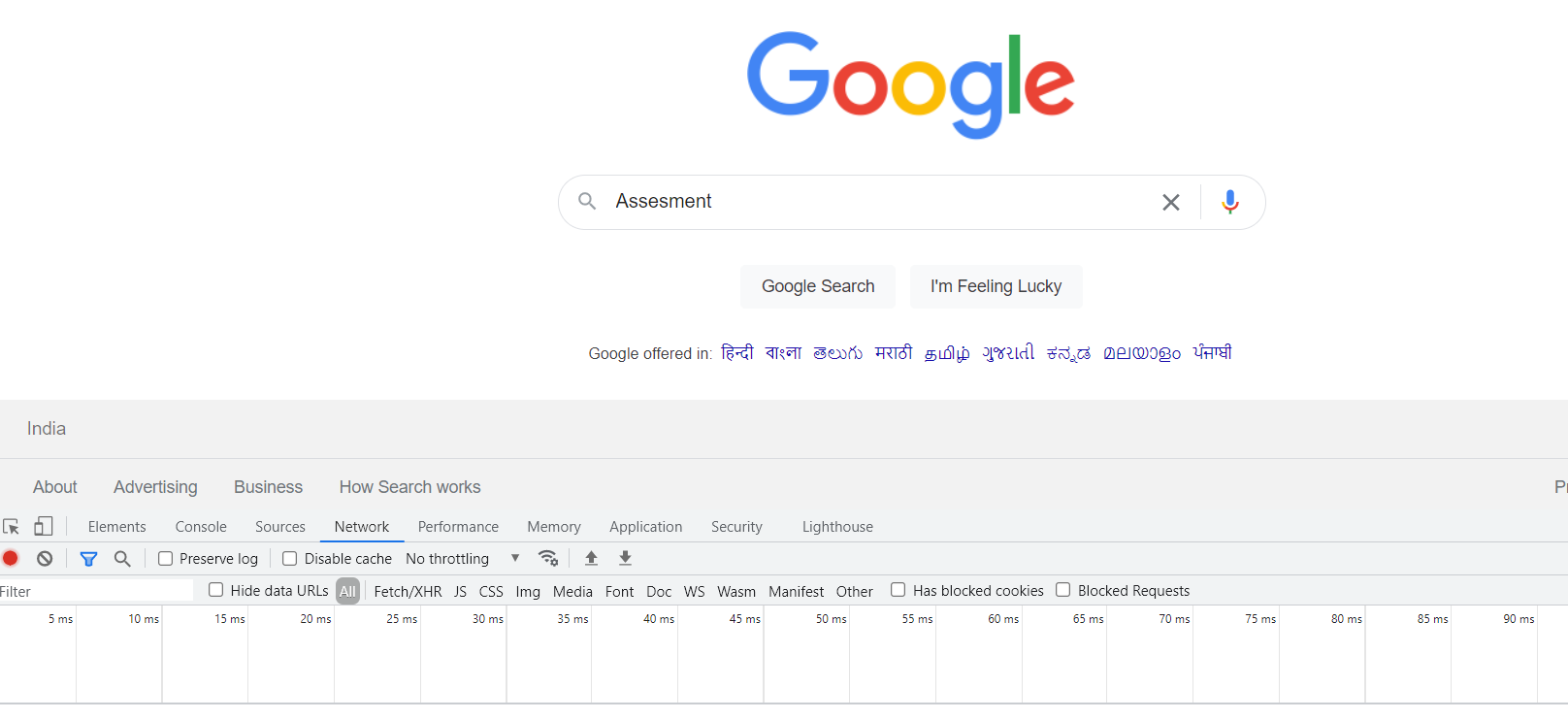
**Click on Submit Button is not sending the Request to the Server, Because of which the Page is not loaded with results.**

**Possible Reason 2:**

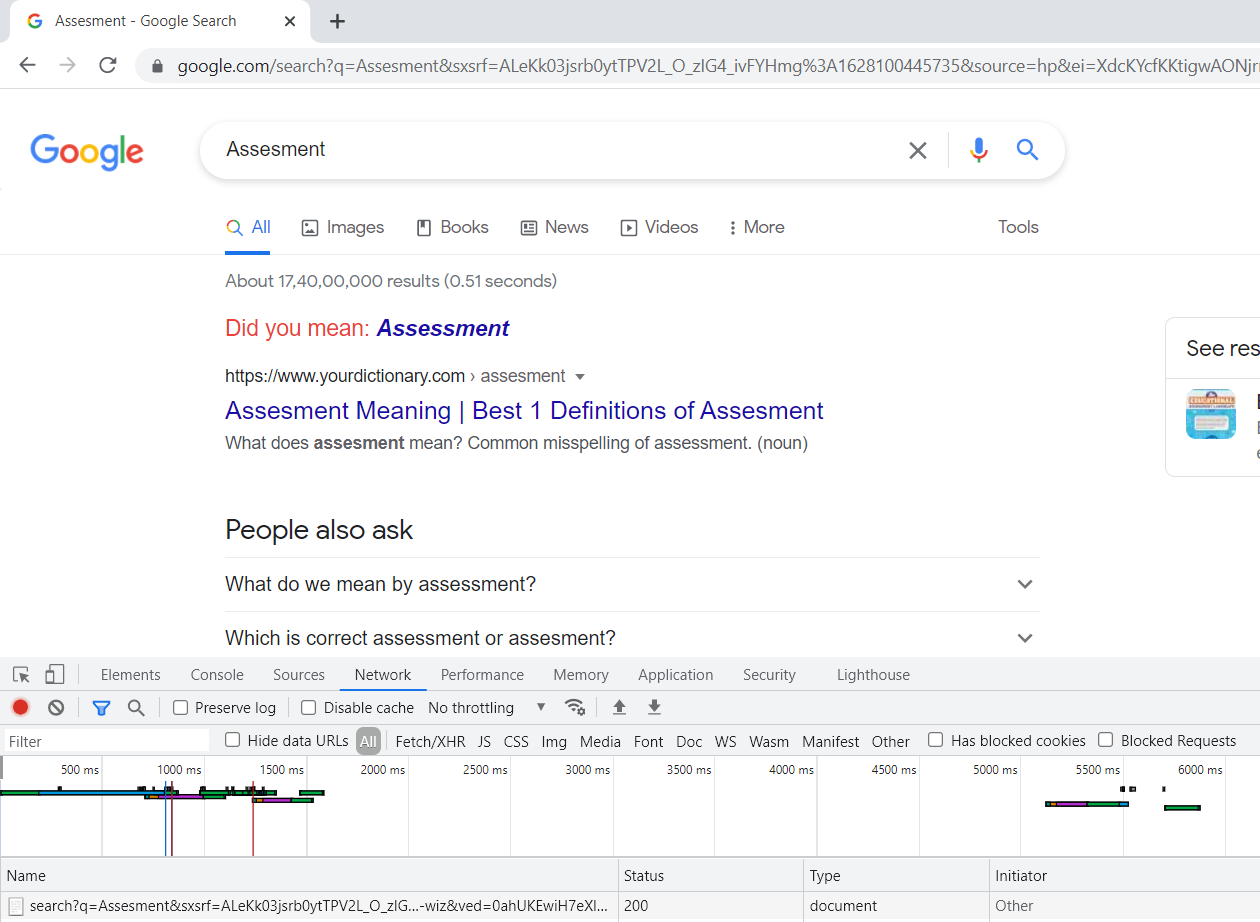
**User Entered Search data is not Embedded correctly in the request.**

**Eg: Search with ‘Assessment in the google should append ‘Assessment in the URL(Request)**

* **Entered Assessment in the search box**



* **Clicked on Google Search Button**



* **If we make q value as blank in the below request, it will not load results**
* **Request when results are loading perfectly**

[**https://www.google.com/search?q=assesment&sxsrf=ALeKk03-qP1fr8uNuNc9U7rYe1RPMwXgMA%3A1628101069257&source=hp&ei=zdkKYcSXDYychwOcvJ\_YBA&iflsig=AINFCbYAAAAAYQrn3eWM0MKm0\_-V\_qC7W6KeUMUvmTon&oq=Ass&gs\_lcp=Cgdnd3Mtd2l6EAEYADIECCMQJzIKCAAQsQMQgwEQQzIKCAAQsQMQgwEQQzIICAAQsQMQgwEyCAguEIAEELEDMgUIABCABDILCAAQgAQQsQMQgwEyBAgAEEMyBAgAEEMyBQgAEIAEOhEILhCABBCxAxCDARDHARDRAzoLCC4QgAQQxwEQowI6CAgAEIAEELEDOhEILhCABBCxAxCDARDHARCjAlDmWljnXWCtamgAcAB4AIABkQGIAa0DkgEDMC4zmAEAoAEB&sclient=gws-wiz**](https://www.google.com/search?q=assesment&sxsrf=ALeKk03-qP1fr8uNuNc9U7rYe1RPMwXgMA%3A1628101069257&source=hp&ei=zdkKYcSXDYychwOcvJ_YBA&iflsig=AINFCbYAAAAAYQrn3eWM0MKm0_-V_qC7W6KeUMUvmTon&oq=Ass&gs_lcp=Cgdnd3Mtd2l6EAEYADIECCMQJzIKCAAQsQMQgwEQQzIKCAAQsQMQgwEQQzIICAAQsQMQgwEyCAguEIAEELEDMgUIABCABDILCAAQgAQQsQMQgwEyBAgAEEMyBAgAEEMyBQgAEIAEOhEILhCABBCxAxCDARDHARDRAzoLCC4QgAQQxwEQowI6CAgAEIAEELEDOhEILhCABBCxAxCDARDHARCjAlDmWljnXWCtamgAcAB4AIABkQGIAa0DkgEDMC4zmAEAoAEB&sclient=gws-wiz)

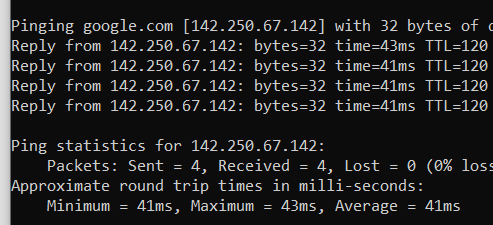
* **When Search string is not appending to the results**

[**https://www.google.com/search?q=&sxsrf=ALeKk03-qP1fr8uNuNc9U7rYe1RPMwXgMA%3A1628101069257&source=hp&ei=zdkKYcSXDYychwOcvJ\_YBA&iflsig=AINFCbYAAAAAYQrn3eWM0MKm0\_-V\_qC7W6KeUMUvmTon&oq=Ass&gs\_lcp=Cgdnd3Mtd2l6EAEYADIECCMQJzIKCAAQsQMQgwEQQzIKCAAQsQMQgwEQQzIICAAQsQMQgwEyCAguEIAEELEDMgUIABCABDILCAAQgAQQsQMQgwEyBAgAEEMyBAgAEEMyBQgAEIAEOhEILhCABBCxAxCDARDHARDRAzoLCC4QgAQQxwEQowI6CAgAEIAEELEDOhEILhCABBCxAxCDARDHARCjAlDmWljnXWCtamgAcAB4AIABkQGIAa0DkgEDMC4zmAEAoAEB&sclient=gws-wiz**](https://www.google.com/search?q=&sxsrf=ALeKk03-qP1fr8uNuNc9U7rYe1RPMwXgMA%3A1628101069257&source=hp&ei=zdkKYcSXDYychwOcvJ_YBA&iflsig=AINFCbYAAAAAYQrn3eWM0MKm0_-V_qC7W6KeUMUvmTon&oq=Ass&gs_lcp=Cgdnd3Mtd2l6EAEYADIECCMQJzIKCAAQsQMQgwEQQzIKCAAQsQMQgwEQQzIICAAQsQMQgwEyCAguEIAEELEDMgUIABCABDILCAAQgAQQsQMQgwEyBAgAEEMyBAgAEEMyBQgAEIAEOhEILhCABBCxAxCDARDHARDRAzoLCC4QgAQQxwEQowI6CAgAEIAEELEDOhEILhCABBCxAxCDARDHARCjAlDmWljnXWCtamgAcAB4AIABkQGIAa0DkgEDMC4zmAEAoAEB&sclient=gws-wiz)

**Possible Reason 3:**

**Server Health is not good. Check server is up and running**

**Ping ServerAddress (Eg: ping google.com) should bring us below results**



**Possible Reason 4:**

**Returned response is not Appended correctly in the Front-end.**

**If the returned response is tagged to a different div which is hidden, we will not see results even request and response are working as Expected**

***Question 2***

***A Web application with a form contains cascading dropdown fields of City and State. While you are testing these dropdowns you find that when you select the state of California it's actually listing cities in Arizona such as Phoenix, Mesa, Tucson, Scottsdale and Flagstaff.***

* ***What can possibly be the root cause of this based on YOUR testing experience?***

**List of Cities Response is not Coming Correctly for the request with State selected as an input in the state dropdown**

* ***Write a defect in the above scenario.***

**Defect Description:**

**City Options is the City Dropdown is not in Sync with the State value selected in the State Dropdown**

**Steps to Reproduce:**

**Select City as State of California**

**Validate City Options. City Options are coming as *Phoenix, Mesa, Tucson, Scottsdale* and *Flagstaff* which are not cities of State of California**

***Question 3***

***What would you do if there isn’t enough time to run through all of your test cases within your sprint?***

**When the time is not enough we need to spend our time testing**

* **Highly Important Functionalities**
* **Tests that cover Multiple Functionalities**
* **High Financial Impact flows**
* **High-risk Modules**
* **Safety Impact tests**
* **Most Complex Flows**
* **Frequencly used User Modules**

**And also we need to be ready with the supporting Docs/cases that caused delay in the testing like**

* **Server Downtimes**
* **Unstable Builds**
* **Test data Unavailabilty etc.,**

***Question 4***

***Give examples of automating RESTful API services. Provide code samples to handle various requests, corresponding responses, and assertion against given endpoints***

**POST request with Assertions Sample Code:**

**import io.restassured.RestAssured;**

**import io.restassured.path.json.JsonPath;**

**public class Postrequest {**

**public void postrequestmethod() {**

**String requestBody="{\r\n"**

**+ " \"location\": {\r\n"**

**+ " \"lat\": -38.383494,\r\n"**

**+ " \"lng\": 33.427362\r\n"**

**+ " },\r\n"**

**+ " \"accuracy\": 50,\r\n"**

**+ " \"name\": \"Frontline house\",\r\n"**

**+ " \"phone\_number\": \"(+91) 983 893 3937\",\r\n"**

**+ " \"address\": \"29, side layout, cohen 09\",\r\n"**

**+ " \"types\": [\r\n"**

**+ " \"shoe park\",\r\n"**

**+ " \"shop\"\r\n"**

**+ " ],\r\n"**

**+ " \"website\": \"http://google.com\",\r\n"**

**+ " \"language\": \"French-IN\"\r\n"**

**+ "}\r\n"**

**+ "";**

**RestAssured.baseURI="https://rahulshettyacademy.com";**

**String PostResponse=RestAssured.given().log().all().queryParam("key","qaclick123").header("content-type","application/json").body(requestBody).when().post("/maps/api/place/add/json")**

**.then().log().all().assertThat().statusCode(200).extract().response().asString();**

**JsonPath jspathobj=new JsonPath(PostResponse);**

**String Placeid=jspathobj.getString("place\_id");**

**System.out.println(Placeid);**

**}**

**public static void main(String[] args) {**

**Postrequest pr=new Postrequest();**

**pr.postrequestmethod();**

**}**

**}**

**DELETE request with Assertions Sample Code:**

**import org.testng.Assert;**

**import io.restassured.RestAssured;**

**import io.restassured.path.json.JsonPath;**

**public class DeleteRequest {**

**public void deleteRequestCode() {**

**String requestBody="{\r\n"**

**+ " \"place\_id\":\"efbb640e56a0e1b102cfb540a05d92fa\" "**

**+ "}\r\n"**

**+ "";**

**RestAssured.baseURI="https://rahulshettyacademy.com";**

**String DeleteRequestResponse=RestAssured.given().log().all().queryParam("key","qaclick123").header("content-type","application/json").body(requestBody).when().delete("/maps/api/place/delete/json").then().log().all().extract().response().asString();**

**JsonPath jspathobj=new JsonPath(DeleteRequestResponse);**

**String statusvalue=jspathobj.getString("status");**

**System.out.println(statusvalue);**

**Assert.assertEquals(statusvalue, "OK");**

**}**

**public static void main(String[] args) {**

**DeleteRequest pr=new DeleteRequest();**

**pr.deleteRequestCode();**

**}**

**}**

**PUT request with Assertions Sample Code:**

**import io.restassured.RestAssured;**

**import io.restassured.path.json.JsonPath;**

**public class PutRequest {**

**public void PutrequestMethod() {**

**String requestBody="{\r\n"**

**+ "\"place\_id\":\"f99af4912b15b7992e98e8f160a3b428\",\r\n"**

**+ "\"address\":\"70 winter walk, USA\",\r\n"**

**+ "\"key\":\"qaclick123\"\r\n"**

**+ "}\r\n"**

**+ "";**

**RestAssured.baseURI="https://rahulshettyacademy.com";**

**String PutResponse=RestAssured.given().log().all().queryParam("key","qaclick123").header("content-type","application/json").body(requestBody).when().put("/maps/api/place/update/json")**

**.then().log().all().assertThat().statusCode(200).extract().response().asString();**

**JsonPath jspathobj=new JsonPath(PutResponse);**

**String Placeid=jspathobj.getString("msg");**

**System.out.println(Placeid);**

**}**

**public static void main(String[] args) {**

**PutRequest pr=new PutRequest();**

**pr.PutrequestMethod();**

**}**

**}**

**GET request with Assertions Sample Code:**

**import io.restassured.RestAssured;**

**import io.restassured.path.json.JsonPath;**

**public class GetRequest {**

**public void getrequestMethod() {**

**String requestBody="";**

**RestAssured.baseURI="https://rahulshettyacademy.com";**

**String getResponse=RestAssured.given().log().all().queryParam("key","qaclick123").queryParam("place\_id","59a789452491201ff838f9d67c617c86").when().get("/maps/api/place/get/json")**

**.then().log().all().assertThat().statusCode(200).extract().response().asString();**

**JsonPath jspathobj=new JsonPath(getResponse);**

**String Placeid=jspathobj.getString("address");**

**System.out.println(Placeid);**

**}**

**public static void main(String[] args) {**

**GetRequest GR=new GetRequest();**

**GR.getrequestMethod();**

**}**

**}**