**OAuth, SSL, and Log4j**

Open eclipse and create a maven project

Add the required dependencies in pom.xml file

Create a class and add the following code

import static org.hamcrest.CoreMatchers.equalTo;

import static org.hamcrest.CoreMatchers.notNullValue;

import org.apache.log4j.Logger;

import org.testng.annotations.Test;

import com.simplilearn.data.model.UserInfo;

import io.restassured.RestAssured;

import io.restassured.http.ContentType;

import io.restassured.path.json.JsonPath;

public class OauthAuthenticationTest {

private static final String BASE\_URL = "https://dummyjson.com/auth";

private static final Logger logger = Logger.getLogger(OauthAuthenticationTest.class);

@Test(description = "Test Login user and get token")

public void testAuthenticationBasedOnCredsToken() {

logger.info("Start :: Authentication Test Login user and get token.");

logger.info("POST : URL " + BASE\_URL + "/login");

// create user post data

UserInfo user = new UserInfo("kminchelle", "0lelplR");

logger.info("Request Object :: " + user);

RestAssured.given().baseUri(BASE\_URL).when().contentType(ContentType.JSON).body(user).log().uri() // request

// logs

.post("/login").then().log().body() // response logs

.assertThat().statusCode(200).and().assertThat().body("id", notNullValue()).and().assertThat()

.body("token", notNullValue());

String response = RestAssured.given().baseUri(BASE\_URL).when().contentType(ContentType.JSON).body(user)

.post("/login").getBody().asString();

logger.info("Response Object :: " + response);

logger.info("End :: Authentication Test Login user and get token.");

}

@Test(description = "Get current auth user from token")

public void testAuthenticationToken() {

logger.info("Start :: Get current auth user from token.");

logger.info("POST : URL " + BASE\_URL + "/me");

String response = null;

try {

// create user post data

UserInfo user = new UserInfo("kminchelle", "0lelplR");

response = RestAssured.given().baseUri(BASE\_URL).when().contentType(ContentType.JSON).body(user)

.post("/login").getBody().asPrettyString();

JsonPath jsonObj = new JsonPath(response);

String token = jsonObj.getString("token");

logger.info("Request Token :: " + token);

RestAssured.given().baseUri(BASE\_URL).when().contentType(ContentType.JSON)

.header("Authorization", "Bearer " + token).log().uri() // request logs

.get("/me").then().log().body() // response logs

.assertThat().statusCode(200).and().assertThat().body("id", notNullValue()).and().assertThat()

.body("username", notNullValue()).and().assertThat().body("username", equalTo("kminchelle")).and()

.assertThat().body("email", equalTo("kminchelle@qq.com"));

} catch (Exception e) {

logger.error("Exception Object :: " + e.toString());

logger.error("End Exception :: "+e.getLocalizedMessage());

}

logger.info("Response Object :: " + response);

logger.info("End :: Get current auth user from token.");

}

}

Runt the following code to see the logs

