**Phase 3 Rest Assured**

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**Handling the Test Data and Executing it in Multiple Environments for User Module of an Application**

**Source code:**

***GetRequest.java***

**package** Phase3.PracticeProject3.RestAssured.UserModuleOfApplication;

**import** org.testng.annotations.Test;

**import** **static** org.hamcrest.CoreMatchers.*equalTo*;

**import** io.restassured.RestAssured;

**import** org.apache.log4j.Logger;

**public** **class** GetRequest {

**private** **static** **final** String ***BASE\_URL***="https://reqres.in/api";

**static** **final** Logger ***logger*** = Logger.*getLogger*(GetRequest.**class**);

@Test(description =" Getting the user details")

**public** **void** TestUserDetails() {

***logger***.info("Start:: Get the user details");

***logger***.info("GET:: Base url" +***BASE\_URL***+ "/users");

**try** {

RestAssured.*given*().baseUri(***BASE\_URL***)

.when().get("/users")

.then().statusCode(200)

.and().assertThat().body("page",*equalTo*(1))

.and().assertThat().body("per\_page",*equalTo*(6))

.and().assertThat().body("total",*equalTo*(12))

.and().assertThat().body("total\_pages",*equalTo*(2));

}

**catch**(Exception e) {

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

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

}

String response = RestAssured.*given*().baseUri(***BASE\_URL***)

.when().get("/users").getBody().asString();

***logger***.info("Reponse :: "+response);

***logger***.info("End :: GET All users test.");

}

}

***LoginUser.java***

**package** Phase3.PracticeProject3.RestAssured.UserModuleOfApplication;

**import** org.testng.annotations.Test;

**import** io.restassured.RestAssured;

**import** io.restassured.http.ContentType;

**import** **static** org.hamcrest.CoreMatchers.*equalTo*;

**import** **static** org.hamcrest.CoreMatchers.*notNullValue*;

**import** org.apache.log4j.Logger;

**public** **class** LoginUser {

**private** **static** **final** String ***BASE\_URL***="https://reqres.in/api";

**final** Logger logger=Logger.*getLogger*(LoginUser.**class**);

@Test(description= "user Login details")

**public** **void** TestLoginUsers() {

logger.info("START:: Login test with rest assured");

//creating the user post data

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

PostData postdata=**new** PostData("eve.holt@reqres.in","cityslicka");

**try** {

logger.info("Request Object" +postdata);

RestAssured.*given*().baseUri(***BASE\_URL***)

.when().contentType(ContentType.***JSON***)

.body(postdata)

.post("/login")

.then().statusCode(200).and()

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

}

**catch**(Exception e) {

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

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

}

String response= RestAssured.*given*().baseUri(***BASE\_URL***)

.when().contentType(ContentType.***JSON***).body(postdata).post("/login").getBody().asPrettyString();

logger.info("response is" +response);

logger.info("END:: Login test with rest assured");

}

}

**class** PostData{ // constructor

**public** **final** String email;

**public** **final** String password;

**public** PostData(String email, String password) {

**super**();

**this**.email=email;

**this**.password=password;

}

}

***Registerring\_User.java***

**package** Phase3.PracticeProject3.RestAssured.UserModuleOfApplication;

**import** org.testng.annotations.Test;

**import** io.restassured.RestAssured;

**import** io.restassured.http.ContentType;

**import** **static** org.hamcrest.CoreMatchers.*equalTo*;

**import** **static** org.hamcrest.CoreMatchers.*notNullValue*;

**import** org.apache.log4j.Logger;

**public** **class** Registerring\_User {

**private** **static** **final** String ***BASE\_URL***="https://reqres.in/api";

**final** Logger logger=Logger.*getLogger*(Registerring\_User.**class**);

@Test(description= "user registration details")

**public** **void** RegisterDetails() {

logger.info("START:: user registration details");

//creating the user post data

PostData postdata=**new** PostData("eve.holt@reqres.in", "pistol");

**try** {

logger.info("POST:: Base URL " +***BASE\_URL***+ "/register");

RestAssured.*given*().baseUri(***BASE\_URL***).when()

.contentType(ContentType.***JSON***)

.body(postdata)

.log().uri()

.post("/register")

.then().log().body() // response logs

.assertThat().statusCode(200).and()

.assertThat().body ("id", *notNullValue*()).and()

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

}

**catch**(Exception e) {

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

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

}

String response= RestAssured.*given*().baseUri(***BASE\_URL***)

.when().contentType(ContentType.***JSON***).body(postdata).post("/register").getBody().asPrettyString();

logger.info("response is" +response);

logger.info("END:: user registration details");

}

**class** PostData {

**public** **final** String email;

**public** **final** String password;

**public** PostData(String email, String password) {

**super**();

**this**.email = email;

**this**.password = password;

}

}

}

***UnknownUserDetails.java***

**package** Phase3.PracticeProject3.RestAssured.UserModuleOfApplication;

**import** **static** org.hamcrest.CoreMatchers.*equalTo*;

**import** org.apache.log4j.Logger;

**import** org.testng.annotations.Test;

**import** io.restassured.RestAssured;

**import** io.restassured.http.ContentType;

**public** **class** UnknownUserDetails {

**private** **static** **final** String ***BASE\_URL***="https://reqres.in/api";

**final** Logger logger=Logger.*getLogger*(UnknownUserDetails.**class**);

@Test(description =" Getting the unknown user details")

**public** **void** TestUserDetails() {

logger.info("Start::GET Unknown user details");

**try** {

logger.info("GET:: Base URL " +***BASE\_URL***+ "/unknown");

RestAssured.*given*().baseUri(***BASE\_URL***)

.when().get("/unknown")

.then().statusCode(200)

.and().assertThat().body("page",*equalTo*(1))

.and().assertThat().body("per\_page",*equalTo*(6))

.and().assertThat().body("total",*equalTo*(12))

.and().assertThat().body("total\_pages",*equalTo*(2))

.body("data[0].name", *equalTo*("cerulean"))

.body("data[4].year", *equalTo*(2004));

}

**catch**(Exception e) {

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

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

}

String response= RestAssured.*given*().baseUri(***BASE\_URL***)

.when().contentType(ContentType.***JSON***).when().get("/unknown").getBody().asPrettyString();

logger.info("response is" +response);

logger.info("END::GET Unknown user details");

}

}