

## Phase 3 Rest Assured

### Practice Project 3

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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.getMessage());
        }
    }
}
```

```

    }

    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.getLocalisedMessage());
    }

    String response= RestAssured.given().baseUrl(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;
    }

}

```

### ***Registering\_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 Registering_User {
```

```
    private static final String BASE_URL="https://reqres.in/api";
```

```
    final Logger logger=Logger.getLogger(Registering_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");

    }
}

```