

## API 1: Create new user

```
package Benzi.RestAssured;

public class PojoData
{
    /*
     * POJO Plain Old Java Object
     * Encapsulation= private data +public method
     */

    private String name;
    private String job;
    private String id;

    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    public String getJob() {
        return job;
    }
    public void setJob(String job) {
        this.job = job;
    }
}
```

```
package Benzi.RestAssured;
```

```
import io.restassured.RestAssured;
```

```
import io.restassured.http.ContentType;
```

```
import io.restassured.response.Response;

import org.testng.Assert;

import org.testng.annotations.Test;


import java.util.HashMap;

import java.util.Map;

import org.testng.annotations.Test;

import static io.restassured.RestAssured.*;

import static io.restassured.matcher.RestAssuredMatchers.*;

import static org.hamcrest.Matchers.*;

//Assignment 1

public class NewUser

{

    String id;

    @Test(priority=1)

    public void PostWithMap()

    {

        //Request PayLoad

        HashMap<String,Object> data=new HashMap<String,Object>();

        data.put("name","string");

        data.put("job","string");


        given()

            .contentType("application/json")

            .body(data)

        .when()
```

```

        .post("https://reqres.in/api/users")

        .then()
        .statusCode(201)
        .body("name",equalTo("string"))
        .log().body();

        System.out.println("New user created using HashMap!");

    }

```

```

@Test
public void pojoWay() {
    //Request payload
    PojoData data=new PojoData();
    data.setName("string");
    data.setJob("string");

    given()
        .contentType("application/json")
        .body(data)

    .when()
        .post("https://reqres.in/api/users")

    .then()
        .statusCode(201)

```

```
.body("name",equalTo("string"))//json validation

.log().body();

//validation for java object

System.out.println(data.getName().equals("string"));

System.out.println(data.getJob().equals("string"));

}

}
```

## Output

```
{
  "name": "string",
  "job": "string",
  "id": "158",
  "createdAt": "2024-06-03T14:19:42.997Z"
}
true
true
{
  "name": "string",
  "job": "string",
  "id": "346",
  "createdAt": "2024-06-03T14:19:44.439Z"
}
New user created using HashMap!
PASSED: pojoWay
PASSED: PostWithMap
```

## API 2 : Delete user

```
package Benzi.RestAssured;

import static io.restassured.RestAssured.given;
import static org.hamcrest.Matchers.equalTo;

import org.testng.annotations.Test;

public class deleteUser {
    @Test
    public void deleteUser()
    {
        given()
        .when()
            .delete("https://reqres.in/api/users/2")

        .then()
            .statusCode(204)
            .log().all();
    }
}
```

## OUTPUT

```
[RemoteTestNG] detected TestNG version 7.4.0
HTTP/1.1 204 No Content
Date: Mon, 03 Jun 2024 14:23:22 GMT
Content-Length: 0
Connection: keep-alive
Report-To: {"group":"heroku-
nel","max_age":3600,"endpoints":[{"url":"https://nel.
heroku.com/reports?ts=1717424602&sid=c4c9725f-1ab0-
44d8-820f-
430df2718e11&s=somfOoiNSwXIM3IMyiaVnulBJ8j0i2k8i9Op2q
NlqQw%3D"}]}
Reporting-Endpoints: heroku-
nel=https://nel.heroku.com/reports?ts=1717424602&sid=
c4c9725f-1ab0-44d8-820f-
430df2718e11&s=somfOoiNSwXIM3IMyiaVnulBJ8j0i2k8i9Op2q
NlqQw%3D
Nel: {"report_to":"heroku-
nel","max_age":3600,"success_fraction":0.005,"failure
_fraction":0.05,"response_headers":["Via"]}
X-Powered-By: Express
Access-Control-Allow-Origin: *
Etag: W/"2-vyGp6PvFo4RvsFtPoIWeCReyIC8"
Via: 1.1 vegur
CF-Cache-Status: DYNAMIC
Server: cloudflare
CF-RAY: 88e057350e0e8007-MAA
PASSED: deleteUser
```

### API 3 : Retrieve User List with pagination

```
package Benzi.RestAssured;
import static org.hamcrest.Matchers.*;
import org.testng.annotations.Test;
import java.util.HashMap;
import static io.restassured.RestAssured.*;
```

```

import static
io.restassured.matcher.RestAssuredMatchers.*;

public class Query_PathParams {
    @Test

    public void parametersTest()
    {
        //https: //reqres.in/ api /users
        ?page=2 // protocol: domain / resource /path
        params ? query params

        given()
        // .pathParam("apipath","users")
        // .queryParams("page",6)

        .when()
        .get("https://reqres.in/api/users?page=1")

        .then()
        .statusCode(200)
        .log().all();

    }
}

```

## OUTPUT

```
[RemoteTestNG] detected TestNG version 7.4.0
HTTP/1.1 200 OK
Date: Mon, 03 Jun 2024 14:25:32 GMT
Content-Type: application/json; charset=utf-8
Transfer-Encoding: chunked
Connection: keep-alive
Report-To: {"group":"heroku-
nel","max_age":3600,"endpoints":[{"url":"https://nel.
heroku.com/reports?ts=1717417888&sid=c4c9725f-1ab0-
44d8-820f-
430df2718e11&s=VttpPf5acaUqlfKotTxbGMKS51wHIMuOz6nGg%
2FyBjPg%3D"}]}
Reporting-Endpoints: heroku-
nel=https://nel.heroku.com/reports?ts=1717417888&sid=
c4c9725f-1ab0-44d8-820f-
430df2718e11&s=VttpPf5acaUqlfKotTxbGMKS51wHIMuOz6nGg%
2FyBjPg%3D
Nel: {"report_to":"heroku-
nel","max_age":3600,"success_fraction":0.005,"failure
_fraction":0.05,"response_headers":["Via"]}
X-Powered-By: Express
Access-Control-Allow-Origin: *
Etag: W/"3e4-2RLXvr5wTg9YQ6aH95CkYoFNuO8"
Via: 1.1 vegur
Cache-Control: max-age=14400
CF-Cache-Status: HIT
Age: 6844
Vary: Accept-Encoding
Server: cloudflare
CF-RAY: 88e05a612ac17f5d-MAA
Content-Encoding: gzip

{
  "page": 1,
  "per_page": 6,
  "total": 12,
  "total_pages": 2,
  "data": [
    {
      "id": 1,
      "email": "george.bluth@reqres.in",
      "first_name": "George",
```



```
        "last_name": "Bluth",
        "avatar": "https://reqres.in/img/faces/1-
image.jpg"
      },
      {
        "id": 2,
        "email": "janet.weaver@reqres.in",
        "first_name": "Janet",
        "last_name": "Weaver",
        "avatar": "https://reqres.in/img/faces/2-
image.jpg"
      },
      {
        "id": 3,
        "email": "emma.wong@reqres.in",
        "first_name": "Emma",
        "last_name": "Wong",
        "avatar": "https://reqres.in/img/faces/3-
image.jpg"
      },
      {
        "id": 4,
        "email": "eve.holt@reqres.in",
        "first_name": "Eve",
        "last_name": "Holt",
        "avatar": "https://reqres.in/img/faces/4-
image.jpg"
      },
      {
        "id": 5,
        "email": "charles.morris@reqres.in",
        "first_name": "Charles",
        "last_name": "Morris",
        "avatar": "https://reqres.in/img/faces/5-
image.jpg"
      },
      {
        "id": 6,
        "email": "tracey.ramos@reqres.in",
        "first_name": "Tracey",
        "last_name": "Ramos",
        "avatar": "https://reqres.in/img/faces/6-
image.jpg"
      }
    ]
  }
```

```
],
  "support": {
    "url": "https://reqres.in/#support-heading",
    "text": "To keep ReqRes free, contributions
towards server costs are appreciated!"
  }
}
PASSED: parametersTest
```

#### **API 4: Write a test script to verify the authentication process of an API using OAuth 2.0**

```
package Benzi.RestAssured;
```

```
import org.testng.annotations.Test;
```

```
import static io.restassured.RestAssured.*;
```

```
import static io.restassured.matcher.RestAssuredMatchers.*;
```

```
import static org.hamcrest.Matchers.*;
```

```
import java.util.HashMap;
```

```
public class Authentication_Oauth
```

```
{
```

```
    @Test
```

```
    public void oAuth2Test()
```

```
    {
```

```
        given()
```

```
        .auth().oauth2("12345")
```

```
.when()

.get("https://postman-echo.com/")

.then()

.statusCode(200)

.log().body();

System.out.println("OAuth2.0 Authentication is validated!");

}

}
```

## OUTPUT

```
OAuth2.0 Authentication is validated!
PASSED: oAuth2Test

=====

Default test
Tests run: 1, Failures: 0, Skips: 0
```