Testing the CRUD Operations and performance of List of Users – Source Code

PostRequest:-

```java
import org.json.JSONObject;
import com.google.gson.Gson;
import io.restassured.RestAssured;
import io.restassured.http.Method;
import io.restassured.response.Response;
import io.restassured.specification.RequestSpecification;

public class PostRequest {
    public static void main(String[] args) {

        RestAssured.baseURI="https://reqres.in";
        RequestSpecification given = RestAssured.given();
        JSONObject reqParam = new JSONObject();
        reqParam.put("name","Revanth");
        reqParam.put("job","Test engg");
        System.out.println(reqParam.toString());
        given.header("Content-Type","application/json");
        given.body(reqParam.toString());
        Response response =given.request(Method.POST,"/api/users");
        System.out.println(response.getStatusCode());
        System.out.println(response.getBody().asString());
        String resp = response.getBody().asString();
        Gson gson = new Gson();
        User user = gson.fromJson(resp,User.class);
        System.out.println(user);
        System.out.println(user.getId());
        System.out.println(user.getName());
        System.out.println(user.getJob());
        System.out.println(user.getCreatedAt());
    }
}
```

Prac_Json:-

```java
import java.util.ArrayList;
import org.json.JSONArray;
import org.json.JSONObject;
import io.restassured.RestAssured;
import io.restassured.http.Method;
import io.restassured.response.Response;
import io.restassured.specification.RequestSpecification;

public class Prac_Json {
    public static void main(String[] args) {

        RestAssured.baseURI = "https://reqres.in";
        RequestSpecification given = RestAssured.given();
        given.header("Content-Type","application/json");
        Response response = given.request(Method.GET,"/api/users");
        System.out.println(response.getStatusCode());
        System.out.println(response.getBody().asString());
        String resp = response.getBody().asString();
        JSONObject object = new JSONObject(response.getBody().asString());
        JSONArray jsonArray = object.getJSONArray("data");
        System.out.println(jsonArray.isEmpty());
        ArrayList<Object> listUsers = new ArrayList<Object>();

        for (int cnt = 0; cnt < jsonArray.length(); cnt++) {
        }
        for (Object object2 : listUsers) {
        System.out.println(object2);

            }
        }
}
```

User:-

```java
public class User {

    public String name; public String job;
    public String id;
    public String createdAt ;
```

```java
        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;
        }
        public String getId() {
        return id;
        }
        public void setId(String id) {
        this.id = id;
        }
        public String getCreatedAt() {
        return createdAt;
        }
        public void setCreatedAt(String createdAt) {
                this.createdAt = createdAt;
        }
}
```

UserValue:-

```java
import com.google.gson.Gson;
public class Uservalue {
        public static void main(String[] args) {
                String resp ="{\"name\":\"Revanth\",\"job\":\"Test
engg\",\"id\":\"532\",\"createdAt\":\"2023-02-24T07:12:02.891Z\"}";
                Gson gson = new Gson();
                User user = gson.fromJson(resp,User.class);
                System.out.println(user);
                System.out.println(user.getId());


        }
}
```

TestLogIn:-

```java
import org.apache.log4j.Level;
import org.apache.log4j.Logger;
import org.apache.log4j.PropertyConfigurator;
public class TestLogIn {
        public static void main(String[] args) {
                Logger logger = Logger.getLogger(TestLogIn.class);
                PropertyConfigurator.configure("log4j.properties");
                logger.setLevel(Level.ALL);
                logger.info("info for run");
                logger.debug("Testdebug");
        }
}
```

Log4j.properties:-

```properties
log=/Users/reravich/Desktop/Logs
log4j.rootLogger=INfO,FILE,stdout
logname = log1.out

log4j.appender.stdout=org.apache.log4j.ConsoleAppender
logrj.appender.stdout.Target=System.out
log4j.appender.stdout.layout=org.apache.log4j.PatternLayout
log4j.appender.stdout.layout.ConversionPattern=%d{yyyy-MM-dd HH:mm:ss} %-5p
%c{1}:%L - %m%n
log4j.appender.FILE=org.apache.log4j.FileAppender
log4j.appender.FILE.File=${log}/${logname}
log4j.appender.FILE.layout=org.apache.log4j.PatternLayout
log4j.appender.FILE.layout.conversionPattern=%m%n
```

Pom.xml:-

```xml
<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">
 <modelVersion>4.0.0</modelVersion>
 <groupId>TestRestApi</groupId>
 <artifactId>APIPRAC</artifactId>
 <version>0.0.1-SNAPSHOT</version>
 <dependencies>
```

```xml
    <!-- https://mvnrepository.com/artifact/io.rest-assured/rest-assured -->
<dependency>
    <groupId>io.rest-assured</groupId>
    <artifactId>rest-assured</artifactId>
    <version>5.3.0</version>
    <scope>test</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/io.rest-assured/rest-assured-all -->
<dependency>
    <groupId>io.rest-assured</groupId>
    <artifactId>rest-assured-all</artifactId>
    <version>5.3.0</version>
    <scope>test</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/org.json/json -->
<dependency>
    <groupId>org.json</groupId>
    <artifactId>json</artifactId>
    <version>20220924</version>
</dependency>
<!-- https://mvnrepository.com/artifact/io.cucumber/cucumber-java -->
<dependency>
    <groupId>io.cucumber</groupId>
    <artifactId>cucumber-java</artifactId>
    <version>7.11.1</version>
</dependency>
<!-- https://mvnrepository.com/artifact/io.cucumber/cucumber-junit -->
<dependency>
    <groupId>io.cucumber</groupId>
    <artifactId>cucumber-junit</artifactId>
    <version>7.11.1</version>
    <scope>test</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/io.cucumber/cucumber-core -->
<dependency>
    <groupId>io.cucumber</groupId>
    <artifactId>cucumber-core</artifactId>
    <version>7.11.1</version>
</dependency>
<!-- https://mvnrepository.com/artifact/com.google.code.gson/gson -->
```

```xml
<dependency>
    <groupId>com.google.code.gson</groupId>
    <artifactId>gson</artifactId>
    <version>2.10.1</version>
</dependency>
<dependency>
    <groupId>io.rest-assured</groupId>
    <artifactId>rest-assured</artifactId>
    <version>5.3.0</version>
    <scope>test</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/org.testng/testng -->
<dependency>
    <groupId>org.testng</groupId>
    <artifactId>testng</artifactId>
    <version>7.7.1</version>
    <scope>test</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/log4j/log4j -->
<dependency>
    <groupId>log4j</groupId>
    <artifactId>log4j</artifactId>
    <version>1.2.17</version>
</dependency>
  </dependencies>
</project>
```