

## Postman:

### Test Case 1: Add New User

POST - <https://thinking-tester-contact-list.herokuapp.com/users>

#### Body :

```
{
  "firstName": "Dilip",
  "lastName": "Kuldip",
  "email": "{{UserEmail}}",
  "password": "Heroku@123"
}
```

#### Pre request :

```
let dtime = new Date().getTime();
let newEmail = "dilipkuldip2012" + dtime + "@gmail.com";

pm.environment.set("UserEmail", newEmail);
```

#### Post response:

```
let res = pm.response;

pm.test("User created successfully and status code is 201", ()
=> {
  pm.expect(res.code).to.eql(201);
})

pm.test("User created successfully and status message is
Created", () => {
  pm.expect(res.status).to.eql("Created")
})

pm.environment.set("HerokuTokenID", res.json().token)
```

#### Response Validation :

**PASSED** User created successfully and status code is 201

**PASSED** User created successfully and status message is Created

## Test Case 2: Get user Profile

**GET** - <https://thinking-tester-contact-list.herokuapp.com/users/me>

Bearer Token - `{{HerokuTokenID}}`

### Post Response :

```
let res = pm.response;

pm.test("User created successfully and status code is 200", () => {
  pm.expect(res.code).to.eql(200);
})

pm.test("User details displayed and status message is OK", () => {
  pm.expect(res.status).to.eql("OK")
})
```

### Response Validation :

**PASSED** User created successfully and status code is 200

**PASSED** User details displayed and status message is OK

## Test Case 3: Update User

**PATCH** - <https://thinking-tester-contact-list.herokuapp.com/users/me>

Bearer Token - `{{HerokuTokenID}}`

### Post Response :

```
pm.test("Updated user details with status code 200", () => {
  pm.expect(pm.response.code).to.eql(200);
})

pm.test("Updated user details with status code OK", () => {
  pm.expect(pm.response.status).to.eql("OK")
})
```

Response Validation :

**PASSED** Updated user details with status code 200

**PASSED** Updated user details with status code OK

## Test Case 4: Log In User

POST - <https://thinking-tester-contact-list.herokuapp.com/users/login>

**Body :**

```
{  
  "email": "{{UserEmail}}",  
  "password": "Heroku@1234"  
}
```

**Post Response :**

```
let res = pm.response.json();  
  
pm.test("Loggedin successfully with status code 200", () => {  
  pm.expect(pm.response.code).to.eql(200);  
})  
  
pm.test("Loggedin successfully with status code OK", () => {  
  pm.expect(pm.response.status).to.eql("OK")  
})  
  
pm.environment.set("LoginUserTokenID", res.token)
```

Response Validation :

**PASSED** Loggedin successfully with status code 200

**PASSED** Loggedin successfully with status code OK

## Test Case 5: Add Contact

POST - <https://thinking-tester-contact-list.herokuapp.com/contacts>

Bearer Token - `{{LoginUserTokenID}}`

### Body :

```
{
  "firstName": "John",
  "lastName": "Doe",
  "birthdate": "1970-01-01",
  "email": "jdoe@fake.com",
  "phone": "8005555555",
  "street1": "1 Main St.",
  "street2": "Apartment A",
  "city": "Anytown",
  "stateProvince": "KS",
  "postalCode": "12345",
  "country": "USA"
}
```

### Post Response :

```
pm.test("Contact added successfully with status code 201", () => {
  pm.expect(pm.response.code).to.eql(201);
})

pm.test("Contact added successfully with status code Created",
() => {
  pm.expect(pm.response.status).to.eql("Created")
})
```

### Response Validation :

**PASSED** Contact added successfully with status code 201

**PASSED** Contact added successfully with status code Created

## Test Case 6: Get Contact List

GET - <https://thinking-tester-contact-list.herokuapp.com/contacts>

Bearer Token - `{{LoginUserTokenID}}`

### Post Response :

```
let res = pm.response.json()
pm.test("Contact list displayed with status code 200", () => {
  pm.expect(pm.response.code).to.eql(200);
})

pm.test("Contact list displayed with status message OK", () => {
  pm.expect(pm.response.status).to.eql("OK")
})

pm.environment.set("Contact ID", res[0]._id )
```

### Response Validation :

**PASSED** Contact list displayed with status code 200

**PASSED** Contact list displayed with status message OK

## Test Case 7: Get Contact

GET - <https://thinking-tester-contact-list.herokuapp.com/contacts/{{Contact ID}}>

Bearer Token - `{{LoginUserTokenID}}`

### Post Response :

```
pm.test("Contact displayed with status code 200", () => {
  pm.expect(pm.response.code).to.eql(200);
})

pm.test("Contact displayed with status message OK", () => {
  pm.expect(pm.response.status).to.eql("OK")
})
```

### Response Validation :

**PASSED** Contact displayed with status code 200

**PASSED** Contact displayed with status message OK

## Test Case 8: Update Contact

**PUT** - <https://thinking-tester-contact-list.herokuapp.com/contacts/{{Contact ID}}>

Bearer Token - `{{LoginUserTokenID}}`

### Body :

```
{
  "firstName": "Amy",
  "lastName": "Miller",
  "birthdate": "1992-02-02",
  "email": "amiller@fake.com",
  "phone": "8005554242",
  "street1": "13 School St.",
  "street2": "Apt. 5",
  "city": "Washington",
  "stateProvince": "QC",
  "postalCode": "A1A1A1",
  "country": "Canada"
}
```

### Post Response :

```
let res = pm.response.json();

pm.test("Contact details updated successfully with status code 200", () => {
  pm.expect(pm.response.code).to.eql(200);
})

pm.test("Contact details updated successfully with status message OK", () => {
  pm.expect(pm.response.status).to.eql("OK")
})

pm.test("Validating Email is amiller@fake.com", () => {
  pm.expect(res.email).to.eql("amiller@fake.com")
})
```

### Response Validation :

**PASSED** Contact details updated successfully with status code 200

**PASSED** Contact details updated successfully with status message OK

**PASSED** Validating Email is [amiller@fake.com](mailto:amiller@fake.com)

## Test Case 9: Update Contact

**PATCH** - <https://thinking-tester-contact-list.herokuapp.com/contacts/{{Contact ID}}>

Bearer Token - `{{LoginUserTokenID}}`

### Body:

```
{  
  "firstName": "Anna"  
}
```

### Post Response :

```
let res = pm.response.json();  
  
pm.test("Firstname updated successfully with status code 200",  
  () => {  
    pm.expect(pm.response.code).to.eql(200);  
  })  
  
pm.test("Firstname updated successfully with status message OK",  
  () => {  
    pm.expect(pm.response.status).to.eql("OK")  
  })  
  
pm.test("Validating FirstName is Anna", () => {  
  pm.expect(res.firstName).to.eql("Anna")  
})
```

### Response Validation :

**PASSED** Firstname updated successfully with status code 200

**PASSED** Firstname updated successfully with status message OK

**PASSED** Validating FirstName is Anna

## Test Case 10: Logout User

**POST** - <https://thinking-tester-contact-list.herokuapp.com/users/logout>

Bearer Token - `{{LoginUserTokenID}}`

## Post Response :

```
pm.test("Logged out successfully with status code 200", () => {  
    pm.expect(pm.response.code).to.eql(200);  
})  
  
pm.test("Logged out successfully with status message OK", () =>  
{  
    pm.expect(pm.response.status).to.eql("OK")  
})
```

## Response Validation :

**PASSED** Logged out successfully with status code 200

**PASSED** Logged out successfully with status message OK



## Environment -

Telecom\_APIProject.postman\_environment.json

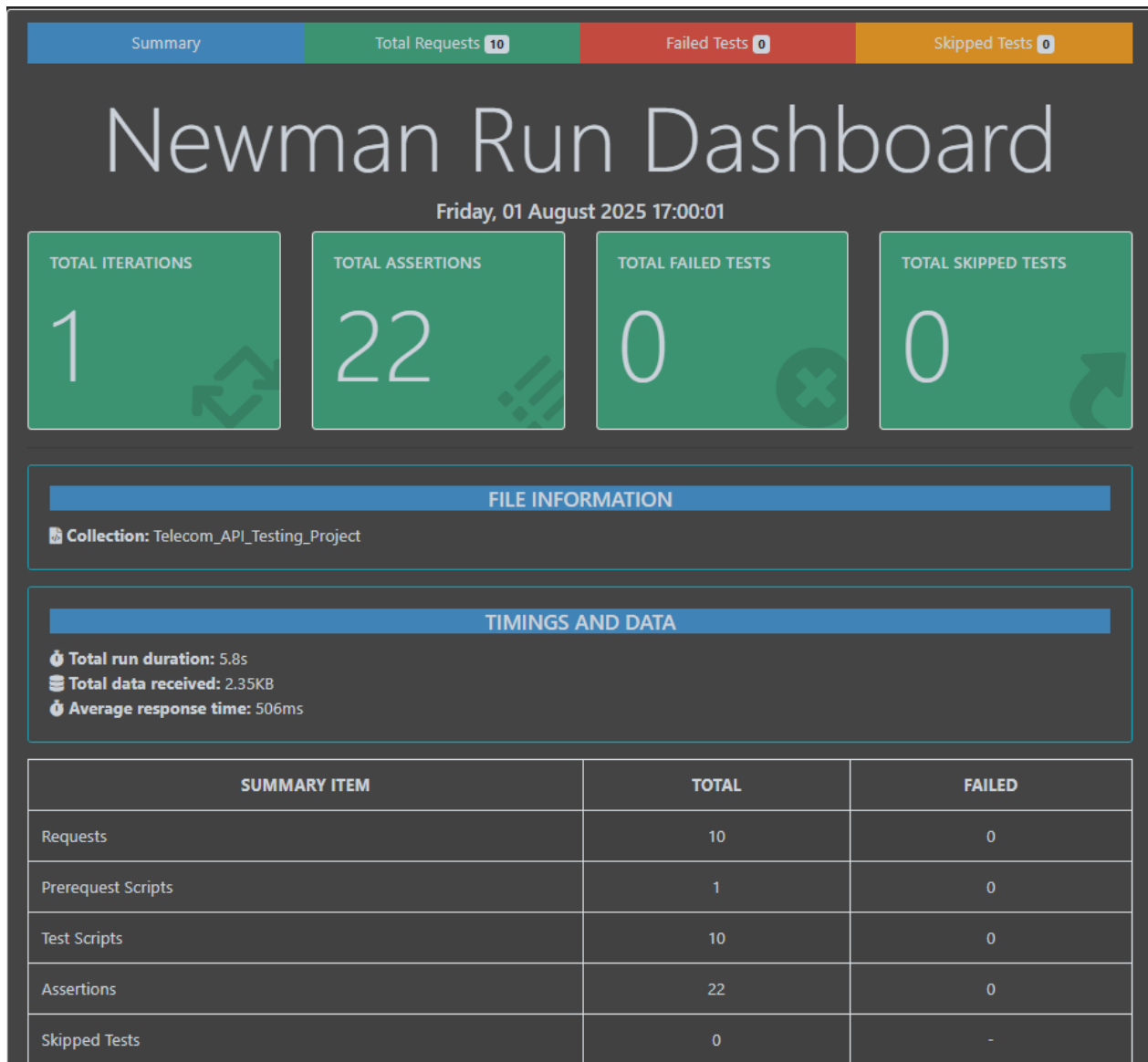


## Collection -

Telecom\_API\_Testing\_Project.postman\_collection.json



## Result -



## RestAssured:

### ExtentTestListener.java:

```
package com.telecom.extentreportlistener;
```

```
import org.testng.ISuite;  
import org.testng.ISuiteListener;  
import org.testng.ITestContext;
```

```

import org.testng.ITestListener;
import org.testng.ITestResult;

import com.aventstack.extentreports.ExtentReports;
import com.aventstack.extentreports.ExtentTest;
import com.aventstack.extentreports.reporter.ExtentSparkReporter;

public class ExtentTestListener implements ITestListener,
ISuiteListener {

    private static ExtentReports extent;
    private static ExtentTest test;

    @Override
    public void onStart(ISuite suite) {
        ExtentSparkReporter spark = new
ExtentSparkReporter("ExtentReport.html");
        extent = new ExtentReports();
        extent.attachReporter(spark);
        extent.setSystemInfo("Suite", suite.getName());
    }

    @Override
    public void onFinish(ISuite suite) {
        extent.flush();
    }

    @Override
    public void onTestStart(ITestResult result) {
        test = extent.createTest(result.getMethod().getMethodName());
    }

    @Override
    public void onTestSuccess(ITestResult result) {
        test.pass("Test passed");
    }

    @Override
    public void onTestFailure(ITestResult result) {
        test.fail("Test failed: " + result.getThrowable());
    }

    @Override
    public void onTestSkipped(ITestResult result) {
        test.skip("Test skipped");
    }

```

```

    }

    @Override
    public void onStart(ITestContext context) {

    }

    @Override
    public void onFinish(ITestContext context) {

    }
}

```

#### **ContactListApplicationTest.java:**

```

package com.telecom.testcases;

import static io.restassured.RestAssured.given;

import java.util.HashMap;

import org.testng.Assert;
import org.testng.annotations.Test;

import io.restassured.response.Response;

public class ContactListApplicationTest {

    String userToken;
    String loginToken;
    String userEmail;
    String firstContactID;
    String updatedPwd;
    String updatedEmail;

    @Test(priority = 1)

    public void addNewUser() {

        userEmail = "dilipkool" + System.currentTimeMillis() +
"@gmail.com";

        HashMap<String, Object> data = new HashMap<String,
Object>();
        data.put("firstName", "Dilip");

```

```

        data.put("lastName", "Kuldip");
        data.put("email", userEmail);
        data.put("password", "Heroku@123");

        Response response = given().header("Content-Type",
"application/json").body(data).when()
            .post("https://thinking-tester-contact-
list.herokuapp.com/users");

        response.then().log().all();

        Assert.assertEquals(response.getStatusCode(), 201, "Expected
status code 201 Created");

        String statusLine = response.getStatusLine();

        Assert.assertTrue(statusLine.contains("Created"), "Expected
status line to contain 'Created'");

        userToken = response.jsonPath().getString("token");
    }

    @Test(priority = 2, dependsOnMethods = "addNewUser")
    public void getUserProfile() {

        Response response = given().header("Content-Type",
"application/json")
            .header("Authorization", "Bearer " +
userToken).when()
            .get("https://thinking-tester-contact-
list.herokuapp.com/users/me");

        Assert.assertEquals(response.getStatusCode(), 200);

        String statusLine = response.getStatusLine();

        Assert.assertTrue(statusLine.contains("OK"), "Expected
status line to contain 'OK'");
    }

    @Test(priority = 3)
    public void updateUser() {

```

```

        updatedEmail = "yamuna" + System.currentTimeMillis() +
"@gmail.com";
        updatedPwd = "Heroku@1234";

        HashMap<String, Object> data = new HashMap<String,
Object>();
        data.put("firstName", "Yamuna");
        data.put("lastName", "Anisetti");
        data.put("email", updatedEmail);
        data.put("password", updatedPwd);

        Response response = given().header("Content-Type",
"application/json")
                .header("Authorization", "Bearer " +
userToken).body(data).when()
                .patch("https://thinking-tester-contact-
list.herokuapp.com/users/me");

        Assert.assertEquals(response.getStatusCode(), 200, "Expected
status code 200 OK");

        String statusLine = response.getStatusLine();

        Assert.assertTrue(statusLine.contains("OK"), "Expected
status line to contain 'OK'");

        response.then().log().all();
    }

    @Test(priority = 4)

    public void loginUser() {

        HashMap<String, Object> data = new HashMap<String,
Object>();
        data.put("email", updatedEmail);
        data.put("password", updatedPwd);

        Response response = given().header("Content-Type",
"application/json").body(data).when()
                .post("https://thinking-tester-contact-
list.herokuapp.com/users/login");

        Assert.assertEquals(response.getStatusCode(), 200, "Expected
status code 200 OK");

```

```

        String statusLine = response.getStatusLine();

        Assert.assertTrue(statusLine.contains("OK"), "Expected
status line to contain 'OK'");

        loginToken = response.jsonPath().getString("token");

        response.then().log().all();
    }

    @Test(priority = 5, dependsOnMethods = "loginUser")

    public void addContact() {

        HashMap<String, Object> data = new HashMap<String,
Object>();
        data.put("firstName", "Ram");
        data.put("lastName", "nithin");
        data.put("birthdate", "1977-01-31");
        data.put("email", "ram@gmail.com");
        data.put("phone", "9848754623");
        data.put("street1", "Sector 11");
        data.put("street2", "Rahul Enclave");
        data.put("city", "Vijayawada");
        data.put("stateProvince", "Andhra Pradesh");
        data.put("postalCode", "528965");
        data.put("country", "India");

        Response response = given().header("Content-Type",
"application/json")
            .header("Authorization", "Bearer " +
loginToken).body(data).when()
            .post("https://thinking-tester-contact-
list.herokuapp.com/contacts");

        Assert.assertEquals(response.getStatusCode(), 201, "Expected
status code 201 Created");

        String statusLine = response.getStatusLine();

        Assert.assertTrue(statusLine.contains("Created"), "Expected
status line to contain 'Created'");

        response.then().log().all();
    }

```

```

    }

    @Test(priority = 6, dependsOnMethods = "loginUser")

    public void getContactList() {

        Response response = given().header("Content-Type",
"application/json")
            .header("Authorization", "Bearer " +
loginToken).when()
            .get("https://thinking-tester-contact-
list.herokuapp.com/contacts");

        Assert.assertEquals(response.getStatusCode(), 200, "Expected
status code 200 OK");

        String statusLine = response.getStatusLine();

        Assert.assertTrue(statusLine.contains("OK"), "Expected
status line to contain 'OK'");

        firstContactID = response.jsonPath().getString("[0]._id");

        System.out.println("Contact Token is :" + firstContactID);

        response.then().log().all();

    }

    @Test(priority = 7)

    public void getContactById() {

        Response response = given().header("Content-Type",
"application/json")
            .header("Authorization", "Bearer " +
loginToken).when()
            .get("https://thinking-tester-contact-
list.herokuapp.com/contacts/" + firstContactID);

        Assert.assertEquals(response.getStatusCode(), 200, "Expected
status code 200 OK");

        String statusLine = response.getStatusLine();

```

```

        Assert.assertTrue(statusLine.contains("OK"), "Expected
status line to contain 'OK'");

        response.then().log().all();
    }

    @Test(priority = 8)

    public void updateFullContact() {

        HashMap<String, Object> data = new HashMap<String,
Object>();
        data.put("firstName", "Amy");
        data.put("lastName", "Miller");
        data.put("birthdate", "1998-07-04");
        data.put("email", "amiller@fake.com");
        data.put("phone", "984888845");
        data.put("street1", "DTS");
        data.put("street2", "Road no 25 MVP Colony");
        data.put("city", "Vizag");
        data.put("stateProvince", "AP");
        data.put("postalCode", "530017");
        data.put("country", "India");

        Response response = given().header("Content-Type",
"application/json")
            .header("Authorization", "Bearer " +
loginToken).body(data).when()
            .put("https://thinking-tester-contact-
list.herokuapp.com/contacts/" + firstContactID);

        Assert.assertEquals(response.getStatusCode(), 200, "Expected
status code 200 OK");

        String statusLine = response.getStatusLine();

        Assert.assertTrue(statusLine.contains("OK"), "Expected
status line to contain 'OK'");

        String email = response.jsonPath().getString("email");

        Assert.assertEquals(email, "amiller@fake.com", "Expected
updated email to match");

        response.then().log().all();
    }

```



```

    }

    @Test(priority = 9)
    public void updatePartialContact() {

        String requestBody = "{\n" + "  \"firstName\": \"Anna\"\n" +
        "\n}";

        Response response = given().header("Content-Type",
        "application/json")
            .header("Authorization", "Bearer " +
        loginToken).body(requestBody).when()
            .patch("https://thinking-tester-contact-
        list.herokuapp.com/contacts/" + firstContactID);

        Assert.assertEquals(response.getStatusCode(), 200, "Expected
        status code 200 OK");

        String statusLine = response.getStatusLine();

        Assert.assertTrue(statusLine.contains("OK"), "Expected
        status line to contain 'OK'");

        String firstName =
        response.jsonPath().getString("firstName");

        Assert.assertEquals(firstName, "Anna", "Expected updated
        first name to be 'Anna'");

        response.then().log().all();
    }

    @Test(priority = 10)
    public void logoutUser() {

        Response response = given().header("Content-Type",
        "application/json")
            .header("Authorization", "Bearer " +
        loginToken).when()
            .post("https://thinking-tester-contact-
        list.herokuapp.com/users/logout");

        Assert.assertEquals(response.getStatusCode(), 200, "Expected
        status code 200 OK");

        String statusLine = response.getStatusLine();

```

```

        Assert.assertTrue(statusLine.contains("OK"), "Expected
status line to contain 'OK'");

        response.then().log().all();
    }
}

```

**testing.xml:**

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">
<suite name="Telecom Suite">

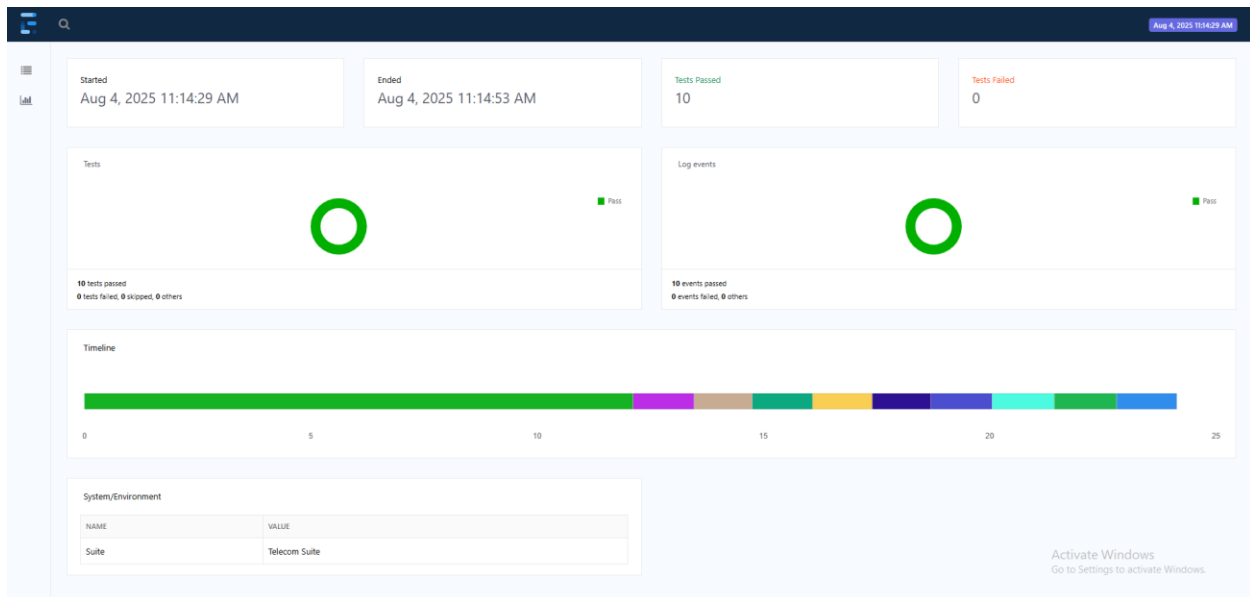
    <listeners>
        <listener
            class-
name="com.telecom.extentreportlistener.ExtentTestListener" />
    </listeners>

    <test name="Contact List API Testing">
        <classes>
            <class
name="com.telecom.testcases.ContactListApplicationTest" />
        </classes>
    </test>

</suite>

```

## Result:



GitHub repo: <https://github.com/Dilip2012/Telecom-Domain-API-Project/upload>

## Project Folder Structure:

```
Telecom_API_Testing_Project/
├── src/
│   ├── main/
│   │   ├── java/
│   │   │   ├── com/telecom/extentreportlistener/
│   │   │   └── ExtentTestListener.java
│   └── test/
│       ├── java/
│       │   ├── com/telecom/testcases/
│       │   └── ContactListApplicationTest.java
│       └── resources/
│           ├── Postman_Collection/
│           │   └── Telecom_API_Testing_Project.postman_collection.json
│           ├── Postman_Environment/
│           │   └── Telecom_APIProject.postman_environment.json
│           ├── Postman_Result/
│           │   └── NewmanReport.html
│           └── test-output/
│               ├── target/
│               ├── ExtentReport.html
│               ├── testNG.xml
│               ├── pom.xml
│               └── README.md
```

## Running Postman Collection using Newman:

### Run Collection Without Environment:

```
newman run  
Postman_Collection/Telecom_API_Testing_Project.postman_collection.json
```

### Run Collection With Environment File:

```
newman run  
Postman_Collection/Telecom_API_Testing_Project.postman_collection.json  
-e Postman_Environment/Telecom_APIProject.postman_environment.json
```

### Generate HTML Report with htmlextra Reporter:

```
npm install -g newman-reporter-htmlextra
```

Then:

```
newman run  
Postman_Collection/Telecom_API_Testing_Project.postman_collection.json  
-e Postman_Environment/Telecom_APIProject.postman_environment.json -r  
htmlextra --reporter-htmlextra-export  
Postman_Result\NewmanReport.html
```

### After execution:

✔ **View Newman Report:** Open NewmanReport.html in your browser.

## Running RestAssured TestNG Suite:

### Maven Command:

```
mvn test
```

OR

Use the TestNG XML file:

Right-click on testNG.xml → Run As → TestNG Suite

**After execution:**

✓ **View Extent Report:** Open ExtentReport.html in your browser.