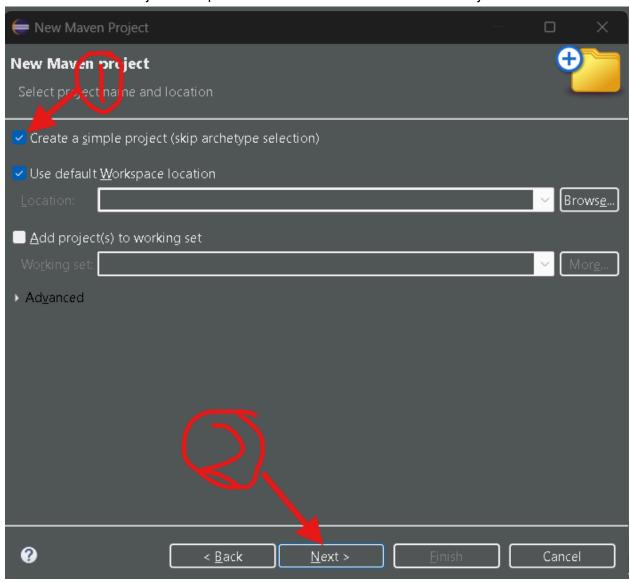
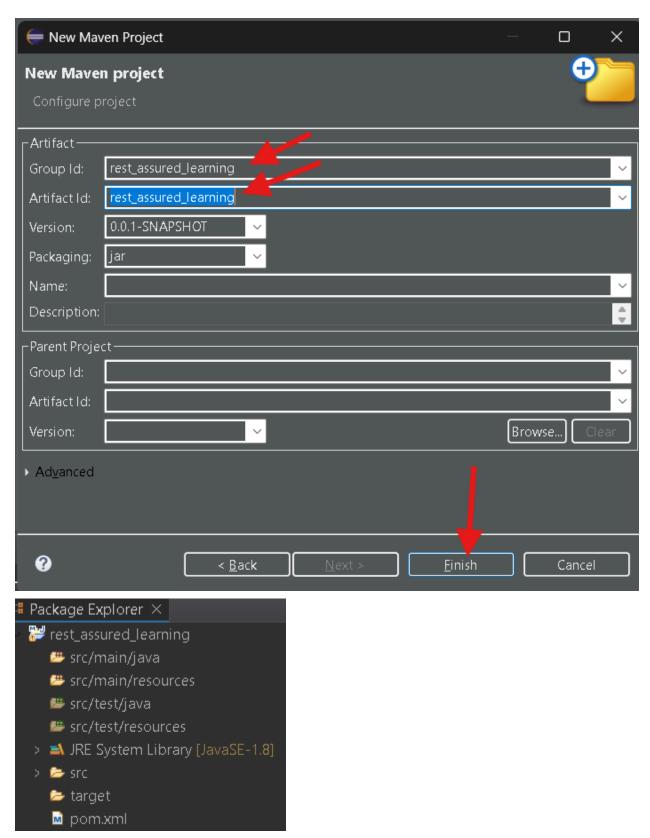
## Install the TestNG:

Goto tab Help -> Eclipse Marketplace... -> Search "TestNG for Eclipse" -> Install.

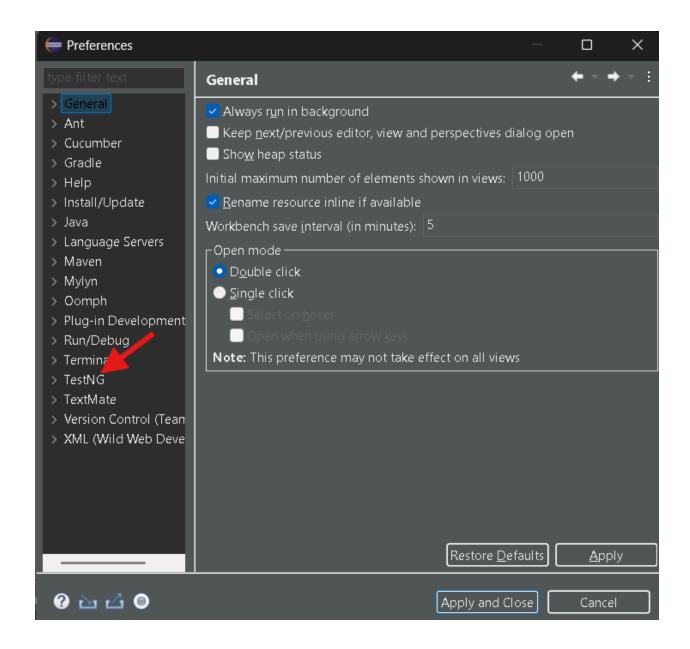
## Create new Project:

File tab -> New -> Project -> Expand Maven folder -> Click on Maven Project -> Next ->





Go to window -> Preferences -> TestNG will be visible.



## Dependencies to Add:

- 1. Rest-Assured
- 2. Json-xpath
- 3. Json
- 4. Gson
- 5. Testng
- 6. Scribejava-apis
- 7. Json-schema-validator
- 8. xml-schema-validator

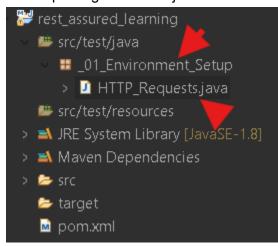
### Get dependencies from MVN Repository:

```
<dependencies>
       <!-- https://mvnrepository.com/artifact/io.rest-assured/rest-assured -->
<dependency>
  <groupId>io.rest-assured</groupId>
  <artifactId>rest-assured</artifactId>
  <version>5.5.5</version>
  <scope>test</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/io.rest-assured/json-path -->
<dependency>
  <groupId>io.rest-assured</groupId>
  <artifactId>json-path</artifactId>
  <version>5.5.5</version>
</dependency>
<!-- https://mvnrepository.com/artifact/org.json/json -->
<dependency>
  <groupId>org.json</groupId>
  <artifactId>json</artifactId>
  <version>20250517</version>
</dependency>
<!-- https://mvnrepository.com/artifact/com.google.code.gson/gson -->
<dependency>
  <groupId>com.google.code.gson</groupId>
  <artifactId>gson</artifactId>
  <version>2.13.1</version>
</dependency>
<!-- https://mvnrepository.com/artifact/org.testng/testng -->
<dependency>
  <groupId>org.testng</groupId>
  <artifactId>testng</artifactId>
  <version>7.11.0</version>
  <scope>test</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/com.github.scribejava/scribejava-apis -->
<dependency>
  <groupId>com.github.scribejava</groupId>
  <artifactId>scribejava-apis</artifactId>
```

```
<version>8.3.3</version>
  <scope>runtime</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/io.rest-assured/json-schema-validator -->
<dependency>
  <groupId>io.rest-assured</groupId>
  <artifactId>json-schema-validator</artifactId>
  <version>5.5.5</version>
</dependency>
  </dependencies>
```

Delete src/main/java and src/main/resources

Create package and then java class.



given():

content type, set cookies, add auth, add param, set headers info etc when():

get, put, post, delete

then():

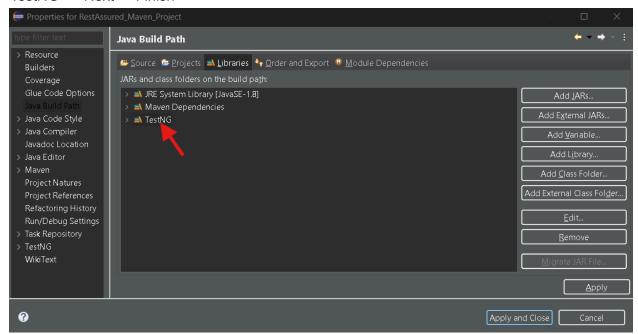
validate status code, extract response, extract headers cookies & response body ... After given is when, after when is then. So the first method is having not having dot and the following method will have dot. And semicolon at the end.

### Get module from:

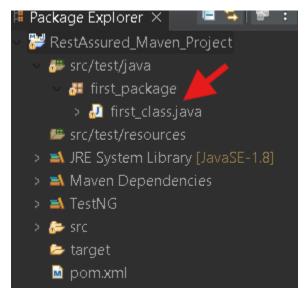
https://github.com/rest-assured/rest-assured/wiki/GettingStarted#static-imports import static io.restassured.RestAssured.\*; import static io.restassured.matcher.RestAssuredMatchers.\*; import static org.hamcrest.Matchers.\*;

### Since TestNG is installed in POM:

Right click on the project -> properties -> Java build path -> Libraries -> Add Library -> Choose 'TestNG' -> Next -> Finish



### Write the Code:



#### Code:

package first\_package; import org.testng.annotations.Test; import static io.restassured.RestAssured.\*; import static io.restassured.matcher.RestAssuredMatchers.\*;

Execute: Right click on code -> Run As -> TestNG Test

# Post Request:

Goto: https://reqres.in/signup

Add this header to your API requests:

x-api-key: regres-free-v1

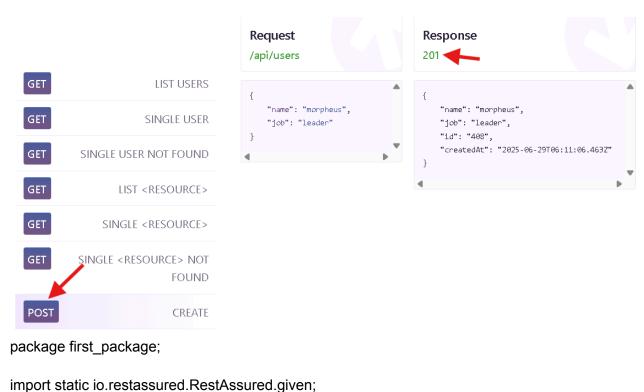
### Code:

Make @Test as the comment not to run the test.

Add header to get the api

Header hdr = new Header("x-api-key", "reqres-free-v1");

For the Post Response code is 201.



import static org.hamcrest.Matchers.equalTo; import java.util.HashMap; import org.testng.annotations.Test; import io.restassured.http.Header; public class first\_class { // @Test void get\_Users() { given() .when() .get("https://reqres.in/api/users?page=2") .then() .statusCode(200) .body("page", equalTo(2)) .log().all(); } @Test void createUser() { HashMap<String, String> new\_user = new HashMap<String, String>(); new\_user.put("name", "kiran");

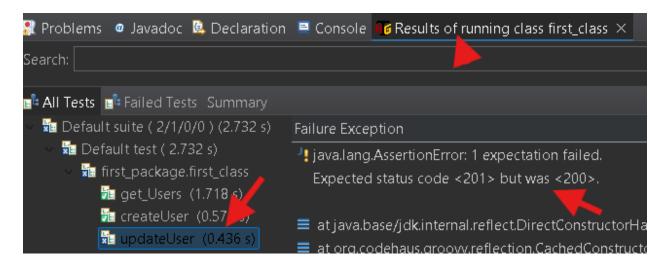
```
new user.put("job", "SDET");
             Header hdr = new Header("x-api-key", "regres-free-v1");
             given()
                     .contentType("application/json")
                     .body(new user)
                     .header(hdr)
              .when()
                     .post("https://regres.in/api/users")
              .then()
                     .statusCode(201)
                     .log().all();
      }
}
Output:
[RemoteTestNG] detected TestNG version 7.11.0
SLF4J(W): No SLF4J providers were found.
SLF4J(W): Defaulting to no-operation (NOP) logger implementation
SLF4J(W): See https://www.slf4j.org/codes.html#noProviders for further details.
HTTP/1.1 201 Created
Date: Sun, 29 Jun 2025 06:31:20 GMT
Content-Type: application/json; charset=utf-8
Content-Length: 78
Connection: keep-alive
CF-RAY: 957361615a778599-BOM
Report-To:
{"group":"heroku-nel","max_age":3600,"endpoints":[{"url":"https://nel.heroku.com/reports?ts=175
1178680&sid=c4c9725f-1ab0-44d8-820f-430df2718e11&s=JEhQMCcTdLiPeC02gUqNyPUEdm
bAQw0cl9wPtwC8u%2Fg%3D"}]}
Reporting-Endpoints:
heroku-nel=https://nel.heroku.com/reports?ts=1751178680&sid=c4c9725f-1ab0-44d8-820f-430d
f2718e11&s=JEhQMCcTdLiPeC02qUqNyPUEdmbAQw0cl9wPtwC8u%2Fg%3D
{"report to":"heroku-nel","max age":3600,"success fraction":0.005,"failure fraction":0.05,"respo
nse headers":["Via"]}
X-Powered-By: Express
Access-Control-Allow-Origin: *
```

Ratelimit-Policy: 100;w=60

Ratelimit-Limit: 100
Ratelimit-Remaining: 96

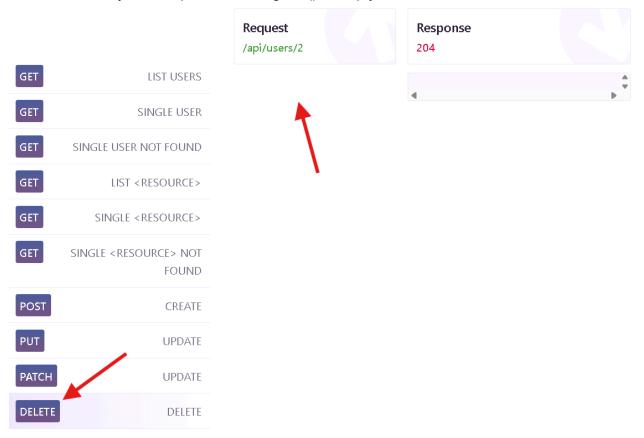
Ratelimit-Reset: 25 Etag: W/"4e-/OFa0bynDu6lKPja0ZRdDXkl/jY" Via: 1.1 vegur cf-cache-status: DYNAMIC Server: cloudflare server-timing: cfL4;desc="?proto=TCP&rtt=26227&min\_rtt=23292&rtt\_var=10066&sent=6&recv=6&lost=0&retr ans=0&sent\_bytes=3106&recv\_bytes=849&delivery\_rate=121243&cwnd=252&unsent\_bytes=0 &cid=44d98e3da5c150e0&ts=386&x=0" { "name": "kiran", "job": "SDET", "id": "67", "createdAt": "2025-06-29T06:31:20.777Z" PASSED: first\_package.first\_class.createUser \_\_\_\_\_ Default test Tests run: 1, Failures: 0, Skips: 0 \_\_\_\_\_\_ \_\_\_\_\_\_ Default suite Total tests run: 1, Passes: 1, Failures: 0, Skips: 0 \_\_\_\_\_

### To check the Error:



## For Delete:

Does not take any from request side, So given() is empty.



### Code:

```
package first_package;
import static io.restassured.RestAssured.given;
import static org.hamcrest.Matchers.equalTo;
import java.util.HashMap;
import org.testng.annotations.Test;
import io.restassured.http.Header;
public class first class {
       int id;
       @Test(priority = 1)
       void get Users() {
              given()
               .when()
                      .get("https://reqres.in/api/users?page=2")
               .then()
                      .statusCode(200)
                      .body("page", equalTo(2))
                      .log().all();
       @Test(priority = 2)
       void post_User() {
              HashMap<String, String> new_user = new HashMap<String, String>();
               new_user.put("name", "kiran");
              new_user.put("job", "SDET");
              Header hdr = new Header("x-api-key", "regres-free-v1");
              id=given()
                      .contentType("application/json")
                      .body(new_user)
                      .header(hdr)
               .when()
                      .post("https://reqres.in/api/users")
                      .jsonPath().getInt("id");
//
               .then()
//
                      .statusCode(201)
//
                      .log().all();
       @Test(priority = 3, dependsOnMethods= {"post_User"})
       void put_User() {
              HashMap<String, String> new_user = new HashMap<String, String>();
               new_user.put("name", "routh");
```

```
new_user.put("job", "QA");
              Header hdr = new Header("x-api-key", "regres-free-v1");
              given()
                      .contentType("application/json")
                      .body(new_user)
                      .header(hdr)
               .when()
                      .put("https://regres.in/api/users/" + id)
              .then()
                      .statusCode(200)
                      .log().all();
       }
       @Test(priority = 4, dependsOnMethods = {"post User"})
       void delete_user() {
              given()
               .when()
                      .delete("https://regres.in/api/users/" + id)
               .then()
                      .statusCode(401)
                      .log().all();
       }
}
Output:
[RemoteTestNG] detected TestNG version 7.11.0
SLF4J(W): No SLF4J providers were found.
SLF4J(W): Defaulting to no-operation (NOP) logger implementation
SLF4J(W): See https://www.slf4j.org/codes.html#noProviders for further details.
HTTP/1.1 200 OK
Date: Sun, 29 Jun 2025 07:13:28 GMT
Content-Type: application/json; charset=utf-8
Transfer-Encoding: chunked
Connection: keep-alive
Content-Encoding: gzip
Report-To:
{"group":"heroku-nel","max age":3600,"endpoints":[{"url":"https://nel.heroku.com/reports?ts=175
```

1179466&sid=c4c9725f-1ab0-44d8-820f-430df2718e11&s=MVMHw3JUUzoRJXMx8BtbnAYHV

K78IHdfhB%2BpAz0vIV8%3D"}]}

```
Reporting-Endpoints:
heroku-nel=https://nel.heroku.com/reports?ts=1751179466&sid=c4c9725f-1ab0-44d8-820f-430d
f2718e11&s=MVMHw3JUUzoRJXMx8BtbnAYHVK78IHdfhB%2BpAz0vIV8%3D
Nel:
{"report_to":"heroku-nel","max_age":3600,"success_fraction":0.005,"failure_fraction":0.05,"respo
nse headers":["Via"]}
X-Powered-By: Express
Access-Control-Allow-Origin: *
Ratelimit-Policy: 100;w=60
Ratelimit-Limit: 100
Ratelimit-Remaining: 98
Ratelimit-Reset: 60
Etag: W/"440-ZjsmMKR8P3usr2uJZbOCGCxC3Uw"
Via: 1.1 vegur
Cache-Control: max-age=14400
CF-Cache-Status: HIT
Age: 1742
Vary: Accept-Encoding
Server: cloudflare
CF-RAY: 95739f16ece0850d-BOM
server-timing:
cfL4;desc="?proto=TCP&rtt=32014&min_rtt=28691&rtt_var=12089&sent=7&recv=7&lost=0&retr
ans=0&sent bytes=3107&recv bytes=747&delivery rate=99157&cwnd=252&unsent bytes=0&
cid=5ed3dd4b4dabe010&ts=128&x=0"
  "page": 2,
  "per page": 6,
  "total": 12,
  "total_pages": 2,
  "data": [
    {
       "email": "michael.lawson@regres.in",
       "first_name": "Michael",
      "last name": "Lawson",
       "avatar": "https://regres.in/img/faces/7-image.jpg"
    },
       "id": 8.
       "email": "lindsay.ferguson@regres.in",
       "first_name": "Lindsay",
       "last name": "Ferguson",
```

"avatar": "https://reqres.in/img/faces/8-image.jpg"

```
},
       "id": 9,
       "email": "tobias.funke@regres.in",
       "first_name": "Tobias",
       "last name": "Funke",
       "avatar": "https://regres.in/img/faces/9-image.jpg"
    },
       "id": 10,
       "email": "byron.fields@regres.in",
       "first_name": "Byron",
       "last name": "Fields",
       "avatar": "https://regres.in/img/faces/10-image.jpg"
    },
       "id": 11,
       "email": "george.edwards@regres.in",
       "first_name": "George",
       "last name": "Edwards",
       "avatar": "https://regres.in/img/faces/11-image.jpg"
    },
       "id": 12,
       "email": "rachel.howell@regres.in",
       "first name": "Rachel",
       "last_name": "Howell",
       "avatar": "https://reqres.in/img/faces/12-image.jpg"
     }
  ],
  "support": {
     "url":
"https://contentcaddy.io?utm_source=reqres&utm_medium=json&utm_campaign=referral",
     "text": "Tired of writing endless social media content? Let Content Caddy generate it for
you."
  }
HTTP/1.1 200 OK
Date: Sun, 29 Jun 2025 07:13:29 GMT
Content-Type: application/json; charset=utf-8
Transfer-Encoding: chunked
Connection: keep-alive
Content-Encoding: gzip
```

```
Report-To:
```

{"group":"heroku-nel","max\_age":3600,"endpoints":[{"url":"https://nel.heroku.com/reports?ts=175 1181209&sid=c4c9725f-1ab0-44d8-820f-430df2718e11&s=TFLkw0OfK08%2BzesmCgih2imifzUHW4%2FdURE0g%2BYaXvA%3D"}]}

Reporting-Endpoints:

heroku-nel=https://nel.heroku.com/reports?ts=1751181209&sid=c4c9725f-1ab0-44d8-820f-430d f2718e11&s=TFLkw0OfK08%2BzesmCgih2imifzUHW4%2FdURE0g%2BYaXvA%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: \* Ratelimit-Policy: 100;w=60

Ratelimit-Limit: 100 Ratelimit-Remaining: 96 Ratelimit-Reset: 60

Etag: W/"42-j2OeDVej752HmuGpLtCYM/UOACg"

Via: 1.1 vegur

CF-Cache-Status: DYNAMIC

Vary: Accept-Encoding Server: cloudflare

CF-RAY: 95739f1ef87d85a1-BOM

server-timing:

cfL4;desc="?proto=TCP&rtt=37104&min\_rtt=34937&rtt\_var=14649&sent=5&recv=6&lost=0&retr ans=0&sent\_bytes=3108&recv\_bytes=850&delivery\_rate=121246&cwnd=252&unsent\_bytes=0 &cid=a802fa4092dac8f7&ts=318&x=0"

```
{
    "name": "routh",
    "job": "QA",
    "updatedAt": "2025-06-29T07:13:29.668Z"
}
```

HTTP/1.1 401 Unauthorized

Date: Sun, 29 Jun 2025 07:13:30 GMT

Content-Type: application/json; charset=utf-8

Content-Length: 72 Connection: keep-alive

CF-RAY: 95739f215ab885ea-BOM

Report-To:

{"group":"heroku-nel","max\_age":3600,"endpoints":[{"url":"https://nel.heroku.com/reports?ts=175 1181210&sid=c4c9725f-1ab0-44d8-820f-430df2718e11&s=UKLgtgyRpn7CGzYDVxieULYi8ti7C DtJOBGfanH6Z8Q%3D"}]}

```
heroku-nel=https://nel.heroku.com/reports?ts=1751181210&sid=c4c9725f-1ab0-44d8-820f-430d
f2718e11&s=UKLgtgyRpn7CGzYDVxieULYi8ti7CDtJOBGfanH6Z8Q%3D
Nel:
{"report_to":"heroku-nel","max_age":3600,"success_fraction":0.005,"failure_fraction":0.05,"respo
nse headers":["Via"]}
X-Powered-By: Express
Access-Control-Allow-Origin: *
Ratelimit-Policy: 100;w=60
Ratelimit-Limit: 100
Ratelimit-Remaining: 95
Ratelimit-Reset: 60
Etag: W/"48-+Z5A4MsbyryWjwqUCtZ7548heDc"
Via: 1.1 vegur
cf-cache-status: DYNAMIC
Server: cloudflare
server-timing:
cfL4;desc="?proto=TCP&rtt=27804&min rtt=27078&rtt var=11607&sent=5&recv=6&lost=0&retr
ans=0&sent_bytes=3107&recv_bytes=747&delivery_rate=128785&cwnd=252&unsent_bytes=0
&cid=61917cccf08a4ad9&ts=316&x=0"
 "error": "Missing API key.",
 "how to get one": "https://regres.in/signup"
PASSED: first package.first class.get Users
PASSED: first_package.first_class.put_User
PASSED: first_package.first_class.post_User
PASSED: first_package.first_class.delete_user
______
 Default test
 Tests run: 4, Failures: 0, Skips: 0
_____
______
Default suite
Total tests run: 4, Passes: 4, Failures: 0, Skips: 0
_____
```

Reporting-Endpoints: