

Running Instructions and Project Details

Section A: Basic Details

Project	CIMB_API
API Base URI	https://developer.todoist.com/rest/v1/
Test Scenarios	<ol style="list-style-type: none">1. Create a New Project and verify the project created successfully2. Create a New Task under the project and verify it's created successfully3. Update the task content
Automation Framework & Document created by	Vishwanatha Thimmanna Hebbar
Programming Language	Java
Tool used	RestAssured API
Framework used	TestNG
Design Pattern	Hybrid Frame including Data driven Approach
Other Features	<ul style="list-style-type: none">➤ Supports parallel execution➤ Generates Extent report along with TestNG report➤ Generates logs <p>Notes:</p> <p>1) Given token (Bearer f3b085e6fa8b41f202e9be0173367cc8f6cc1817) not authorized for HTTP POST requests hence test cases are failed with response code 401(UnAuthorized) . Cross verified POST request through postman , still faced 401 unauthorized(Refer to snapshot in section D)</p> <p>2) Above token works fine for HTTP GET requests</p> <p>3) Test cases can be executed, only the GET method , I have included is successful now with status code 200</p> <p>4) All test cases are expected to PASS , if we update "config.properties" file under "Config" folder with token which has authority for HTTP POST requests.</p> <p>5) It follows data driven approach, Hence we need to update correct test in file "APITestData.xlsx" under "TestData" folder.</p> <p>Test data to be updated in corresponding tab:</p> <p>Tab: CreateNewProject -> "name" column can be any sample value Tab: CreateNewTask -> "content" column can be any sample value -> "project_id" column should contain valid project id from data base, so that new task will be created successfully for given project id.</p> <p>Tab: UpdateTaskContent -> "due_string" column can be any sample value -> "project_id" column should contain valid project id from data base, so that task will be updated for the given project id.</p>

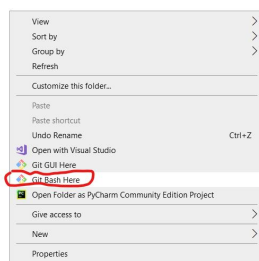
GitHub Repository URL	https://github.com/vthebbar/API_CIMB_Test.git
Test Reports Folders	TestNG Report : test-output-> index.html and emailable-report.html Extent Report : Reports-> ExecutionReport_dd-MM-yyyy hh-mm-ss.html

Section B : Pull code from GitHub repository

Pre-requisite : GIT Bash software is installed in PC and GIT HUB account

Step1 :Create folder in your pc

Step 2: Open GIT Bash (Right click inside the folder and click on : Git Bash Here



Step 3:

Run command > **git init**

Step 4:

Run command > **git pull** https://github.com/vthebbar/API_CIMB_Test.git

After step 4, project will be downloaded into the folder.

Section C : How to Run the project on Standalone computer

Note:

To run the test cases using Approach 1 & 2, Maven software should be present in the system. To check maven is present in the system or not, run below command:

mvn -version

```

Select Command Prompt
Microsoft Windows [Version 10.0.19043.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\user>mvn -version
Apache Maven 3.8.5 (3599d3414f046de2324203b78ddcf9b5e4388aa0)
Maven home: C:\apache-maven-3.8.5
Java version: 1.8.0_202, vendor: Oracle Corporation, runtime: C:\Program Files\Java\jdk1.8.0_202\jre
Default locale: en_MY, platform encoding: Cp1252
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"

C:\Users\user>

```

Approach 1: Using “Run.bat” file in project home directory (Preferred & easy Approach)

->Double click on “Run.bat” file shown below and wait till execution completes.

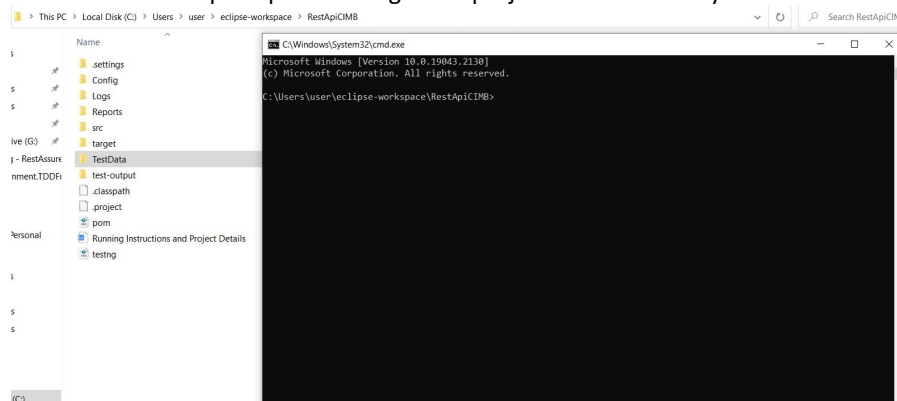
This PC > Local Disk (C:) > Users > user > eclipse-workspace > RestApiCIMB

Name	Date modified	Type	Size
.settings	19/10/2022 4:19 PM	File folder	
Config	19/10/2022 5:24 PM	File folder	
Logs	19/10/2022 5:44 PM	File folder	
Reports	19/10/2022 11:56 PM	File folder	
src	19/10/2022 4:19 PM	File folder	
target	19/10/2022 11:56 PM	File folder	
TestData	20/10/2022 12:16 AM	File folder	
test-output	19/10/2022 11:36 PM	File folder	
.classpath	19/10/2022 11:55 PM	CLASSPATH File	2 KB
.project	19/10/2022 4:19 PM	PROJECT File	1 KB
pom	19/10/2022 11:54 PM	XML Document	4 KB
Run.bat	18/10/2022 10:50 AM	Windows Batch File	1 KB
Running Instructions and Project Details	20/10/2022 12:33 AM	DOCX Document	491 KB
testng	19/10/2022 11:33 PM	XML Document	1 KB

Approach 2: Using windows command prompt

Step 1:

Open windows command prompt and navigate to project home directory



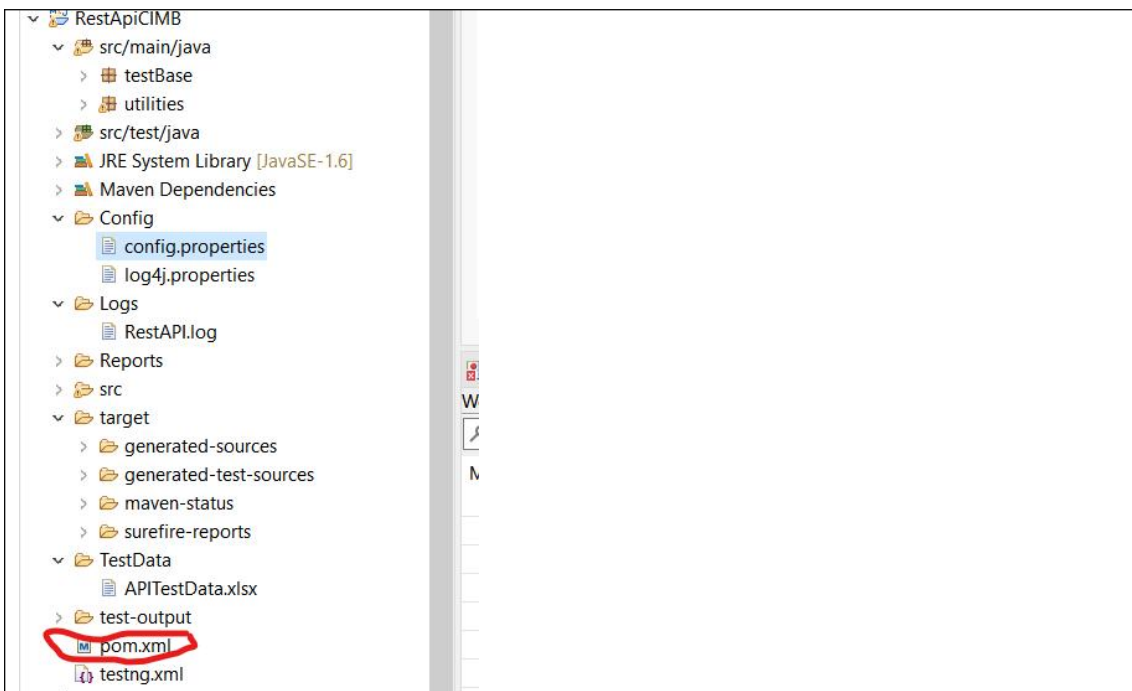
Step 2:

Run command : **mvn clean install**

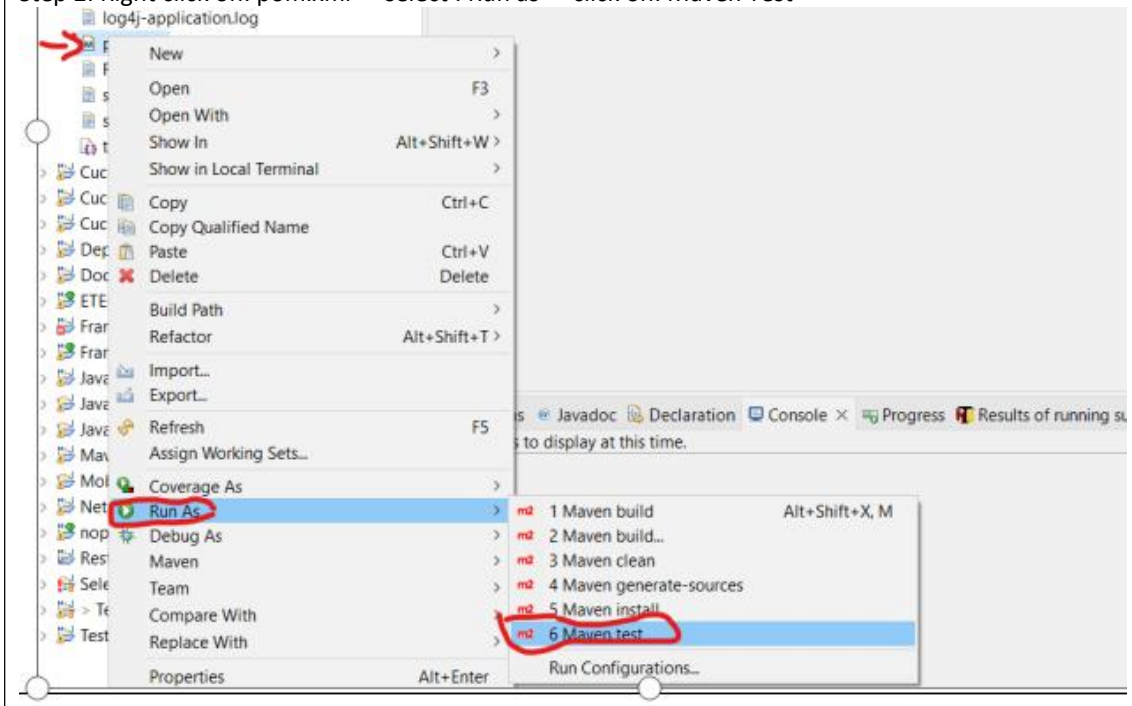
```
C:\Users\user\eclipse-workspace\RestApiCIMB>mvn clean install
```

Approach 3: Run using “pom.xml” file

Step 1: Import the project in eclipse IDE

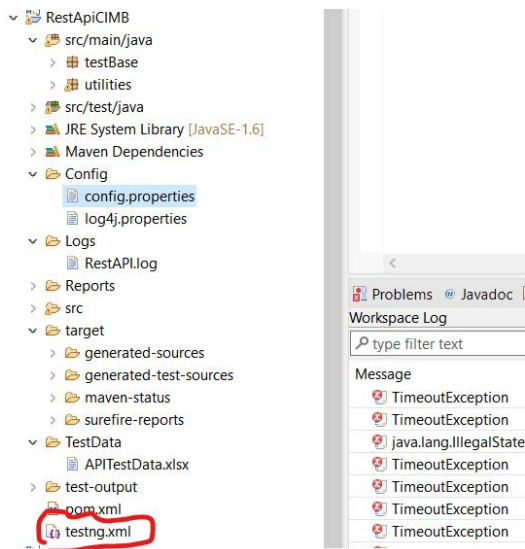


Step 2: Right click on: pom.xml -> select : Run as -> click on: Maven Test

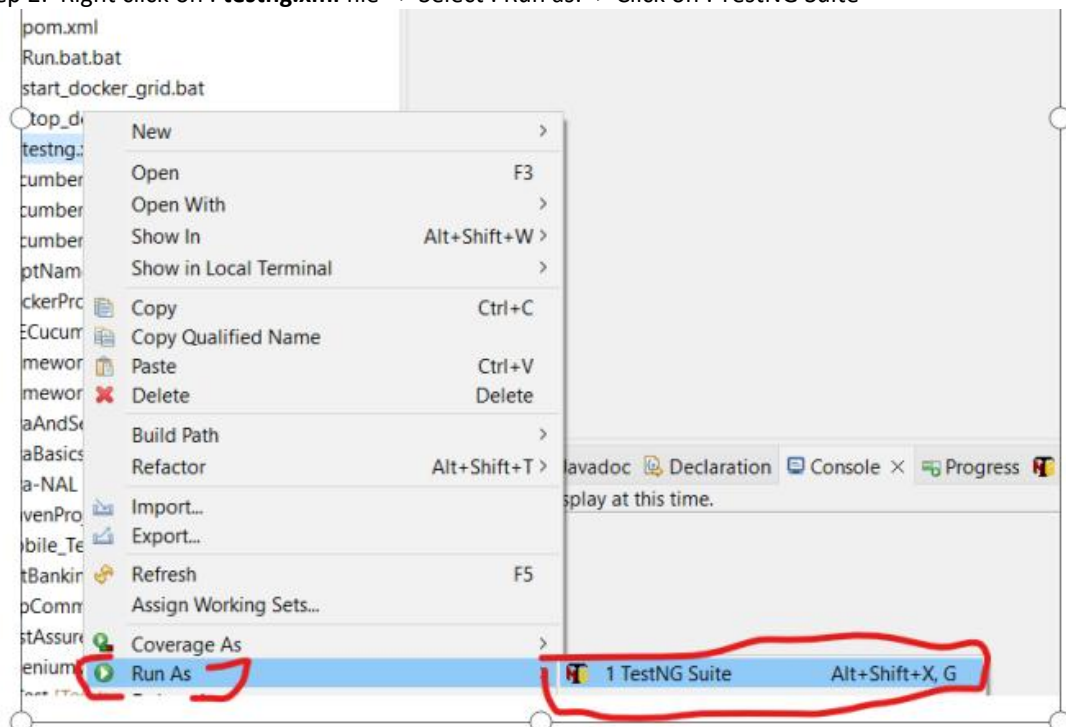


Approach 4: Run using "testng.xml" file

Step 1: Import project in eclipse IDE



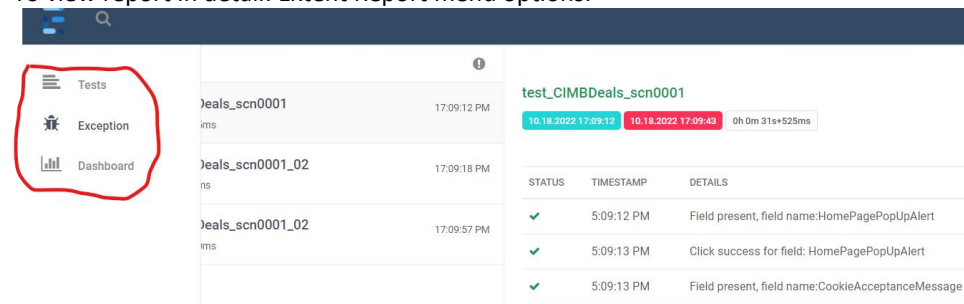
Step 2: Right click on : **testng.xml** file -> Select : Run as -> Click on : TestNG Suite



...

Note 2:

To view report in detail: Extent Report menu options:



Section D: API HTTP POST request authorization errors

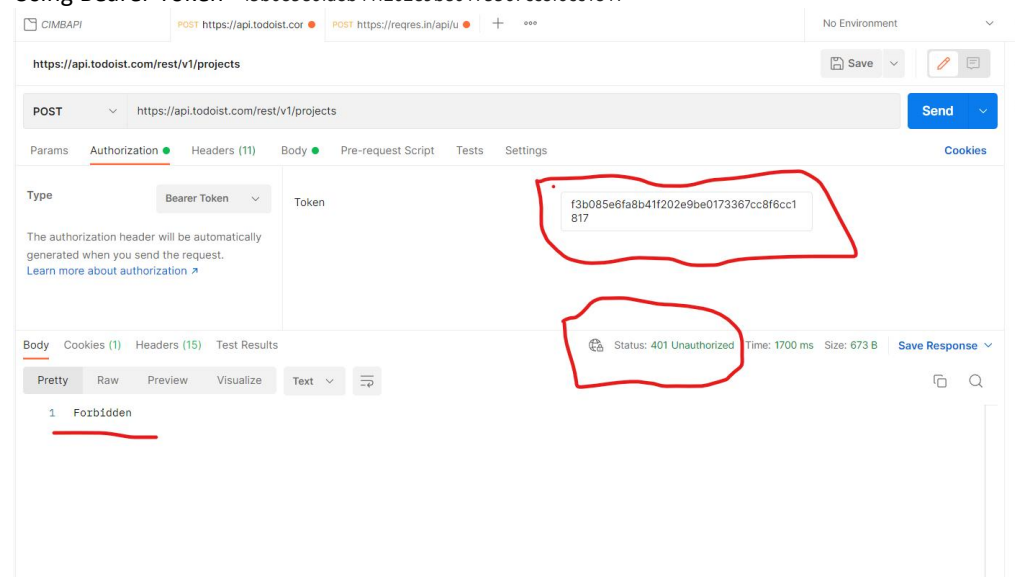
With Respect to API automation there is authorization issue with respect to HTTP POST requests which means, task and project creation fails. Below is the error snapshot.

Test cases will run successfully with Fail result.

The Given bearer token works for HTTP GET requests but fails for HTTP POST requests.

HTTP POST Request - Not authorized

Using Bearer Token - f3b085e6fa8b41f202e9be0173367cc8f6cc1817



Automation code also shows same error and unable to create project.

```
<terminated> Test_PostCreateProject [TestNG] C:\Users\user\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_18.0.1
[RemoteTestNG] detected TestNG version 7.0.1
Response body=io.restassured.internal.RestAssuredResponseImpl@36480b2d
Response body=401
FAILED: test_create_project
java.lang.AssertionError: expected [201] but found [401]
```

Using User ID and password (Basic authentication also not working)

GET https://developer.todoist.com POST https://api.todoist.com No Environment

https://api.todoist.com/rest/v1/projects Save

POST https://api.todoist.com/rest/v1/projects Send

Params Authorization Headers (11) Body Pre-request Script Tests Settings Cookies

Type Basic Auth Username wong.afiq.1234@gmail.com Password Thi\$1sTest Show Password

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

Body Cookies (1) Headers (16) Test Results Status: 403 Forbidden Time: 953 ms Size: 2.76 KB Save Response

Pretty Raw Preview Visualize HTML

```
1 <!DOCTYPE html>
2 PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
3 <html xmlns="http://www.w3.org/1999/xhtml">
4
5 <head>
6   <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
7   <title>403 - Sorry, you are forbidden to access this</title>
8
9   <meta name="viewport" content="width=device-width, initial-scale=1.0">
10
11
12
13   <style type="text/css">
14     body {
15       text-align: center;
16       font-family: -apple-system, BlinkMacSystemFont, "Segoe UI", Roboto, Helvetica, Arial, sans-serif, "Apple Color Emoji", "Segoe UI Em
```

HTTP GET request is ok. Using Bearer Token - f3b085e6fa8b41f202e9be0173367cc8f6cc1817

GET https://developer.todoist.com POST https://api.todoist.com No Environment

CIMBAPI / https://developer.todoist.com/rest/v1/ Save

GET https://developer.todoist.com/rest/v1/ Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Type Bearer Token Token f3b085e6fa8b41f202e9be0173367cc8f6cc1817

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

Body Cookies Headers (16) Test Results Status: 200 OK Time: 74 ms Size: 247.34 KB Save Response

Pretty Raw Preview Visualize HTML

```
1 <!doctype html>
2 <html>
3
4 <head>
5   <meta charset="utf-8">
6   <meta content="IE=edge,chrome=1" http-equiv="X-UA-Compatible">
7   <meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1">
8
9
10 <title>REST API Reference | Todoist Developer</title>
11
12 <link rel="icon" href="../../images/favicon-ccb73281.png">
13
14 <style media="screen">
15   .highlight table td {
16     padding: 5px;
```