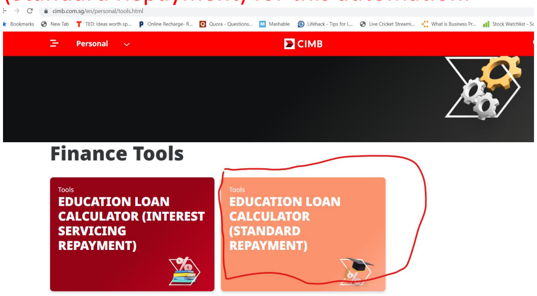
Running Instructions and Project Details

Section A: Basic Details

Project	CIMB_SG
Application URL	https://www.cimb.com.sg/en/personal/home.html
Test Scenario	**Scenario 2:** Given I'm on CIMB page And I navigate to Tools page from menu When I access to ~~Property~~ Education Loan Repayment Calculator(Standard Repayment) from menu [Property Loan option not found, hence selected Education Loan] Only below 2 tools found in tools page. I have selected "Education Loan Calculator (Standard Repayment) for this automation.  cimb.com.sg/en/personal/tools.html Bookmarks New Tab TED: Ideas worth sp... Online Recharge- R... Quora - Questions... Mashable Lifehack - Tips for L... Live Cricket Streami... What is Business Pr... Stock Watchlist - Sc Personal CIMB Finance Tools Tools EDUCATION LOAN CALCULATOR (INTEREST SERVICING REPAYMENT) Tools EDUCATION LOAN CALCULATOR (STANDARD REPAYMENT) And I have inputted all necessary values Then I will be able to see the Effective Interest Rate, Total Interest Payable and Total Amount Payable And I will be able to see the loan repayment table with total loan tenure that I've entered And different interest rates for different year based on my input
Automation Framework & Document created by	Vishwanatha Thimmanna Hebbar
Programming Language	Java
Tool	Selenium
Framework	TestNG
Design Pattern	Hybrid Framework (Page Object Model (POM) design+Data driven framework)
Other Features	➢ Supports thread safe parallel execution ➢ Generates Extent report along with inbuilt TestNG report ➢ Generates logs ➢ Takes screenshot of failed test case and attach to Extent report ➢ Extent Reports are generated under Reports folder (Screenshots stored in Reports/Screenshots) along with TestNG reports. ➢ Failed test case will re-run automatically for one more time, if you wish not to re-run automatically then corresponding listener at "testng.xml" may be commented or removed ➢ Test cases can be run on "Dockerized selenium grid" infrastructure. Refer to section D. **Note 1:**

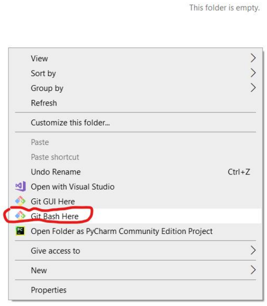
	I have added sample test “test_verify_title” , and made it intentionally fail at assertion stage to check screenshot is captured for failed test and to ensure failed test automatically re-runs one more time. Also to check for parallel execution.
GitHub Repository URL	https://github.com/vthebbar/CIMB_SG.git
Test Reports Folders	TestNG Report : test-output-> index.html and emailable-report.html Extent Report : Reports-> ExecutionReport_dd-MM-yyyy hh-mm-ss.html
Logs stored at	Logs/CIMBSGWeb.log

Section B : Pull code from GitHub repository

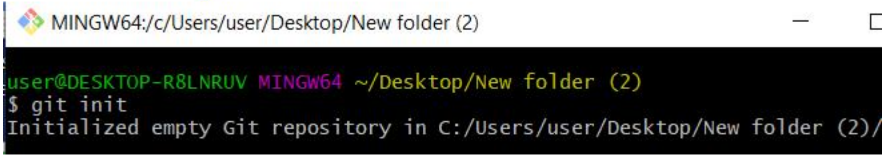
Pre-requisite : GIT Bash software is installed in PC and GIT HUB account

Step1 :Create folder in your pc

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

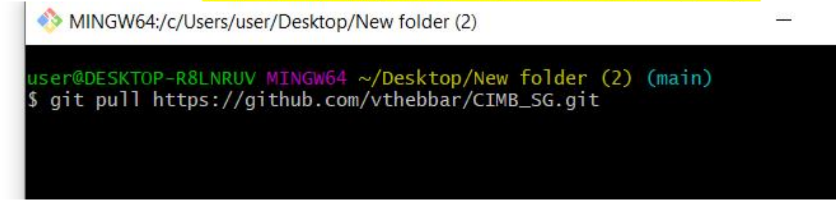


Step 3:
Run command > **git init**



```
user@DESKTOP-R8LNRUV MINGW64 ~/Desktop/New folder (2)
$ git init
Initialized empty Git repository in C:/Users/user/Desktop/New folder (2)/
```

Step 4:
Run command > **git pull https://github.com/vthebbar/CIMB_SG.git**



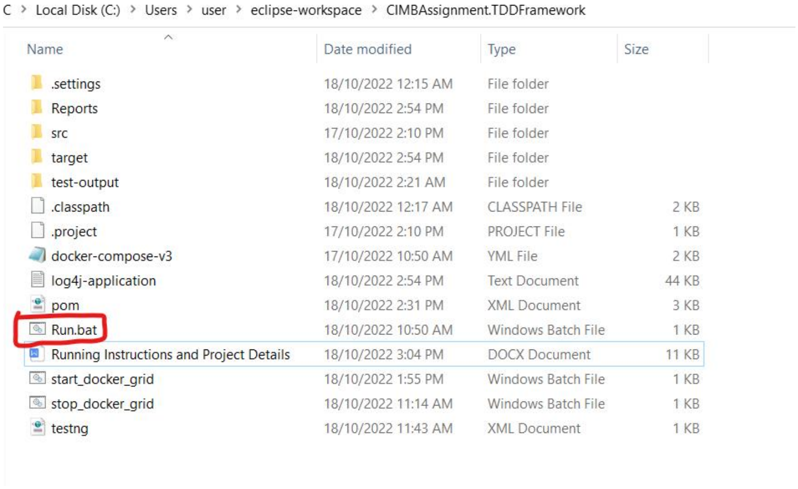
```
user@DESKTOP-R8LNRUV MINGW64 ~/Desktop/New folder (2) (main)
$ git pull https://github.com/vthebbar/CIMB_SG.git
```

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

Section C : How to Run the project on Standalone computer

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

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



C > Local Disk (C:) > Users > user > eclipse-workspace > CIMBAssignment.TDDFramework

Name	Date modified	Type	Size
.settings	18/10/2022 12:15 AM	File folder	
Reports	18/10/2022 2:54 PM	File folder	
src	17/10/2022 2:10 PM	File folder	
target	18/10/2022 2:54 PM	File folder	
test-output	18/10/2022 2:21 AM	File folder	
.classpath	18/10/2022 12:17 AM	CLASSPATH File	2 KB
.project	17/10/2022 2:10 PM	PROJECT File	1 KB
docker-compose-v3	17/10/2022 10:50 AM	YML File	2 KB
log4j-application	18/10/2022 2:54 PM	Text Document	44 KB
pom	18/10/2022 2:31 PM	XML Document	3 KB
Run.bat	18/10/2022 10:50 AM	Windows Batch File	1 KB
Running Instructions and Project Details	18/10/2022 3:04 PM	DOCX Document	11 KB
start_docker_grid	18/10/2022 1:55 PM	Windows Batch File	1 KB
stop_docker_grid	18/10/2022 11:14 AM	Windows Batch File	1 KB
testng	18/10/2022 11:43 AM	XML Document	1 KB

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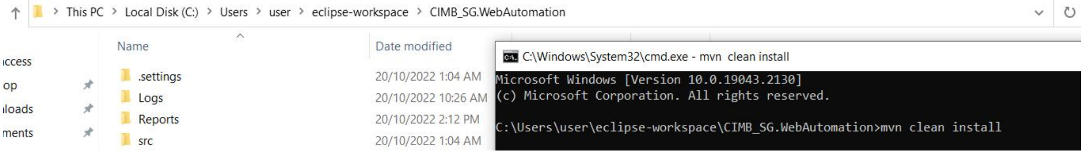
Approach 1B:
Open windows command prompt and navigate to project home directory.

Run command> **mvn clean install**



This PC > Local Disk (C:) > Users > user > eclipse-workspace > CIMB_SG.WebAutomation

Name	Date modified
.settings	20/10/2022 1:04 AM
Logs	20/10/2022 10:26 AM
Reports	20/10/2022 2:12 PM
src	20/10/2022 1:04 AM

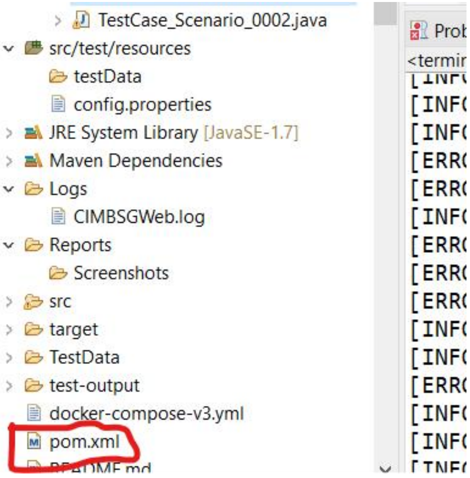
C:\Windows\System32\cmd.exe - mvn clean install

```
Microsoft Windows [Version 10.0.19043.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\user\eclipse-workspace\CIMB_SG.WebAutomation>mvn clean install
```

Approach 2: Run using “pom.xml” file

Step 1: Import the project in eclipse IDE



- TestCase_Scenario_0002.java
- src/test/resources
  - testData
  - config.properties
- JRE System Library [JavaSE-1.7]
- Maven Dependencies
- Logs
  - CIMBSGWeb.log
- Reports
  - Screenshots
- src
- target
- TestData
- test-output
- docker-compose-v3.yml
- pom.xml
- README.md

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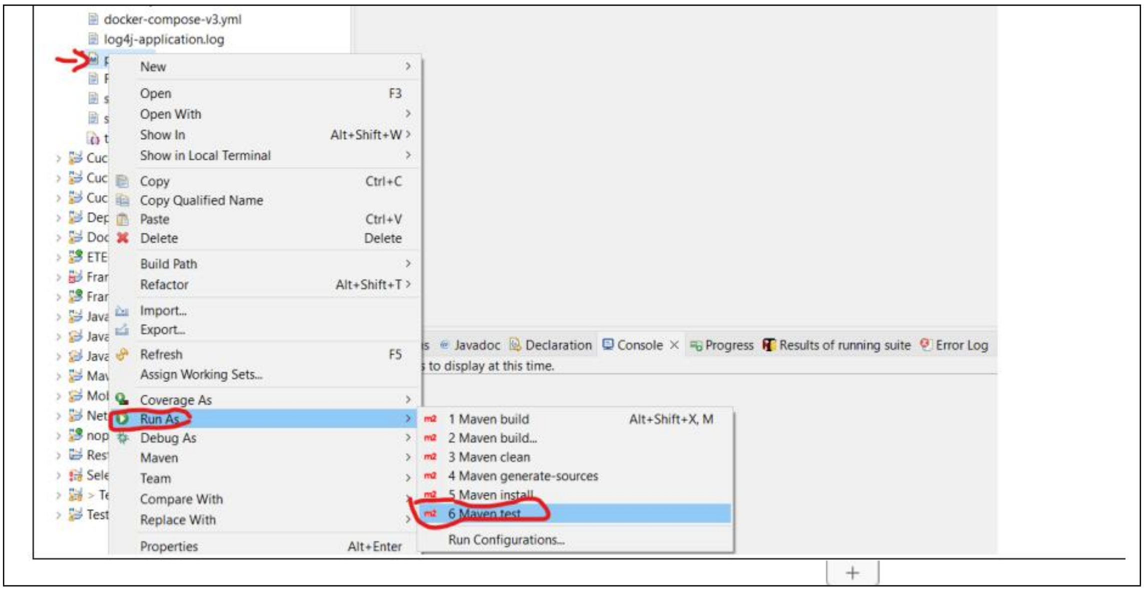
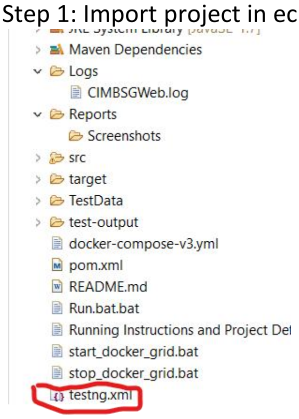
Step 2: Right click on: pom.xml -> select : Run as -> click on: Maven Test

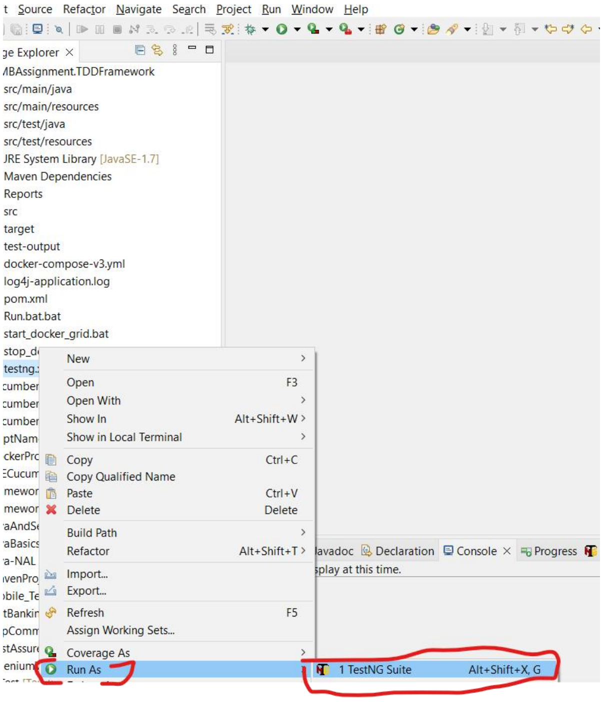


Approach 3: Run using “testng.xml” file

Step 1: Import project in eclipse IDE



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



Section D: How to run project on "Dockerized selenium grid" infrastructure using docker-compose

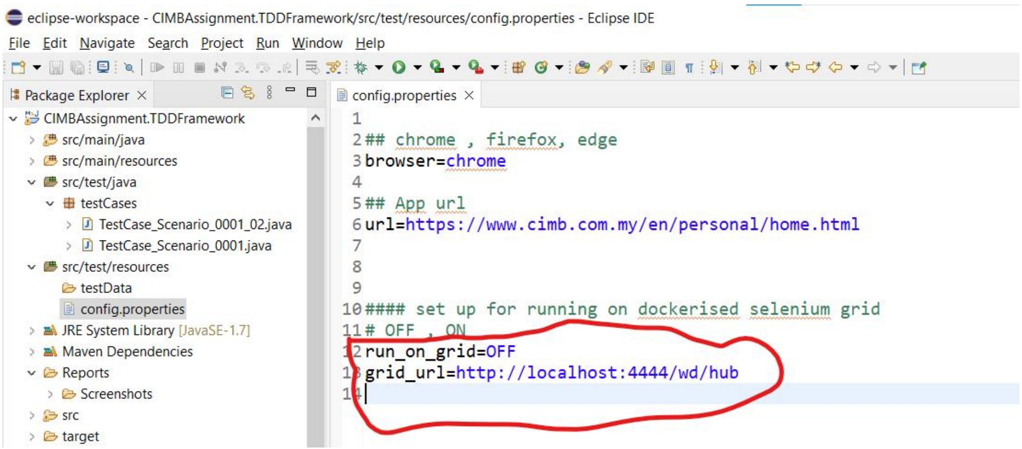
If you wish to run tests on Dockerized selenium grid, then following steps to be followed.

Step 1: Download Docker Desktop [https://www.docker.com/products/docker-desktop/]

Note2: Docker Desktop must be on, automation code will automatically start grid infrastructure before test starts and shuts down once test completes.
You may also use any other existing docker infrastructure to run tests.

Step 2: Open "config.properties" file

```
Change ->  run_on_grid=ON
grid_url -> Provide your grid URL
```


eclipse-workspace - CIMBAssignment.TDDFramework/src/test/resources/config.properties - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Package Explorer
CIMBAssignment.TDDFramework
src/main/java
src/main/resources
src/test/java
testCases
TestCase_Scenario_0001_02.java
TestCase_Scenario_0001.java
src/test/resources
testData
config.properties
JRE System Library [JavaSE-1.7]
Maven Dependencies
Reports
Screenshots
src
target
config.properties

```

## chrome , firefox, edge
browser=chrome

## App url
url=https://www.cimb.com.my/en/personal/home.html



#### set up for running on dockerised selenium grid
# OFF , ON
run_on_grid=OFF
grid_url=http://localhost:4444/wd/hub

```

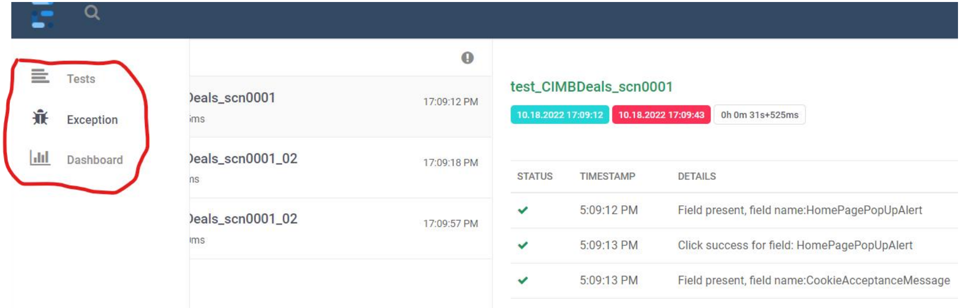
Step 3: Double click on "Run.bat" file

Note 3:

➢ For running on different browsers , update browser name in “config.properties” file

Note 4:

Report menu options:



)eals_scn0001 17:09:12 PM
ims

)eals_scn0001_02 17:09:18 PM
ns

)eals_scn0001_02 17:09:57 PM
ims

test_CIMBDeals_scn0001

10.18.2022 17:09:12 10.18.2022 17:09:43 0h 0m 31s+525ms

STATUS	TIMESTAMP	DETAILS
✓	5:09:12 PM	Field present, field name:HomePagePopUpAlert
✓	5:09:13 PM	Click success for field: HomePagePopUpAlert
✓	5:09:13 PM	Field present, field name:CookieAcceptanceMessage