

**Automation TEST Suite**

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**Historical**

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| --- | --- | --- | --- |
| Version | Date | Sections updated | Description |
| 1.0 | 17/05/2021 | All |  |
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**Related Document**

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| Name | Description | Version | Date |
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# Automation test Suite

Automated test suite is created to automate the test process of Helpilepsy application, using this suite we can reduce the number of test cases to be run manually.

This suite will be used to Create new Seizure and Edit the existing Seizure in the Application. Also, suite will compare expected and actual results and generate detailed test reports.

Successive development cycles will require execution of same test suite repeatedly. This test suite can be re-played whenever it is required without human intervention.

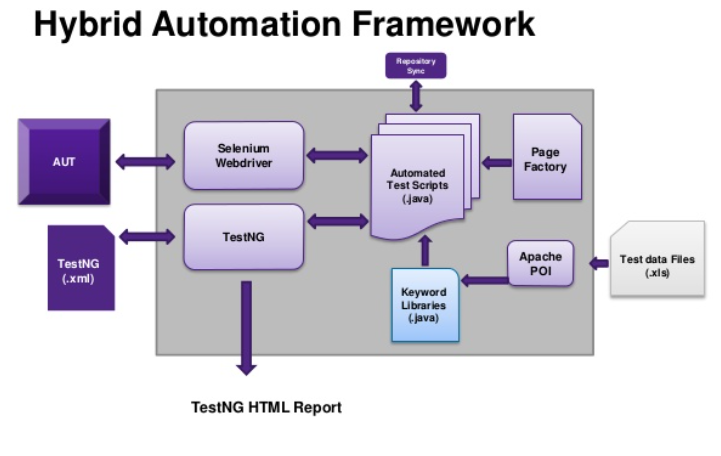
**Test Cases executed in Test Suite:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Scenario** | **Test Cases / Test Steps** | **Actual Result** | **Expected Result** |
| Verify the Welcome Page | 1. Open the browser 2. Enter the URL ->  **https://d2ziclbl1px5mc.cloudfront.net/** 3. Navigate to Last page of **Tutorial** 4. Click on **Let's Go** Button | Browser should navigate to Welcome page | Browser should navigate to Welcome page |
| Login with the Account | 1. Click on "**I already have an Account**" 2. Give Email as -> **Neurotest@gmail.com** 3. Give Password as -> **test** 4. Click on **Login** Button | Login should be success | Login should be success |
| Create/Add an Event | 1. Click on **Add(+)** Button | Browser should show all Available Events to add | Browser should show all Available Events to add |
| Create a new Seizure | 1. Select **Seizure** as a new Event 2. **Date** field should auto display as Current Date and should be non-editable 3. **Time** Field should auto display as Current Time and should be non-editable 2. Click on the "**Type**" dropdown 3. Select '**General Absence Seizure value**' from the dropdown list values 4. Select the Radio Button value as No for "**Felt it Coming?**" 5. Scroll Down and see **Save Seizure** Button is visible or not 5. Click on **Save Seizure** Button. 6. Click on **OK** button in **Info** Alert Box | New Seizure should be saved/added successfully | New Seizure should be saved/added successfully |
| Edit/Change the newly created Seizure | 1. Under **My Seizures** click on the current week existing Seizure 2. In **Diary** Schedule, click on the existing Seizure displayed as **'General Absence Seizure value'** 3. In **Edit Seizure** form, Change the "**Type**" dropdown value as '**Focal aware seizure**' 4. Now, Click on **Save** button on the Top of the page | Changes/updates of Seizure should be saved and in Diary Schedule, existing Seizure will be displayed as 'Focal aware seizure' | Changes/updates of Seizure should be saved and in Diary Schedule, existing Seizure will be displayed as 'Focal aware seizure' |
| My Seizures should have a list of modified Seizure | 1. Click on **My Seizures** Icon in Home Page of Dashboard  2. Check whether Seizure exists as **'Focal aware seizure**' | Under My Seizures, Seizure type of '**Focal aware seizure**' should exists | Under My Seizures, Seizure type of '**Focal aware seizure**' should exists |

# Test Automation Framework

This test suite is implemented with the Hybrid framework, which is the combination of both Keyword and Data-Driven framework. This framework leads to increased code reusability, higher portability, reduced cost of script maintenance, better code readability.

The diagram below depicts the architectural design of the Hybrid framework:

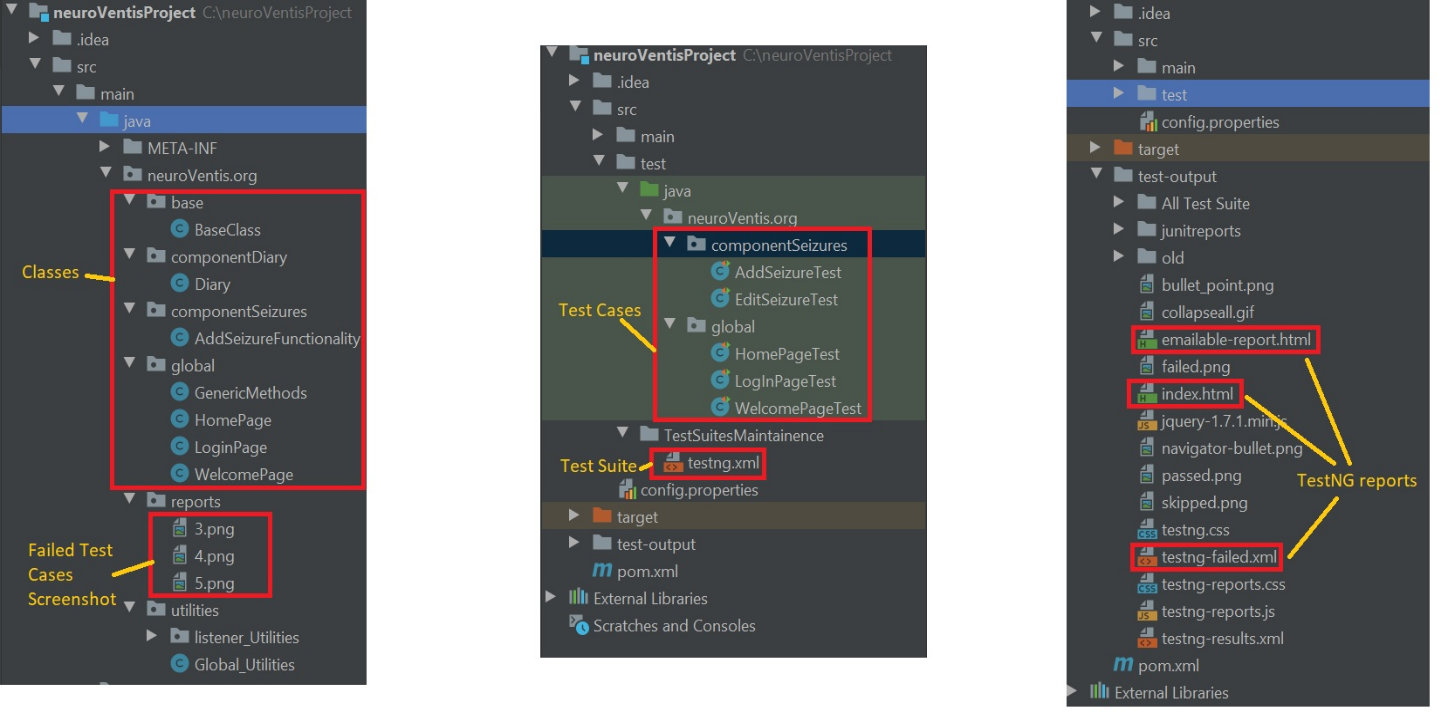


# Automation tools used

|  |  |  |
| --- | --- | --- |
| **Name of the tool** | **Version** | **Usage** |
| Selenium Web driver | 3.14 | To validate Helpilepsy application across different browsers and platforms using Java programming language to create Selenium Test Scripts. |
| Maven | 3.8.1 | To create projects, dependency libraries, and documentation using Project Object Model and plugins. |
| IntelliJ IDEA | 2020.1.2 | It is an integrated development environment (IDE) used for the development of test classes within the test suite using Java program. |
| TestNG | 6.14 | It is used to organize test cases. It allows to create and handle multiple test classes, define test suites and tests.  Also used to control the execution of tests by putting all the test cases together and run it under one XML file. |
| Java(JDK & JSE) | 8u241 | This tool is useful for developing and testing programs written in the Java programming language and running on the Java platform in IntelliJ. |

# Test Suite Folder Structure

Below picture illustrates the folder structure and framework design implemented in Test Suite:



# Prerequistes to Run the test Suite

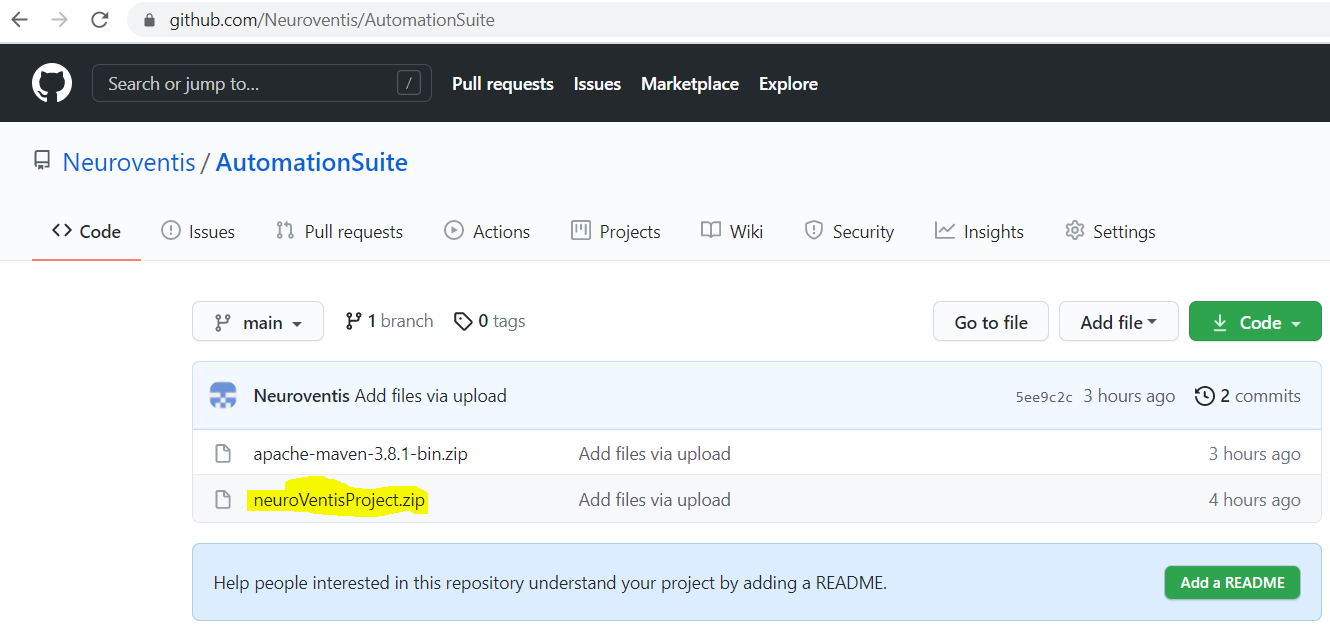
## Extract the test Suite

1) Test suite is in the GitHub repository URL

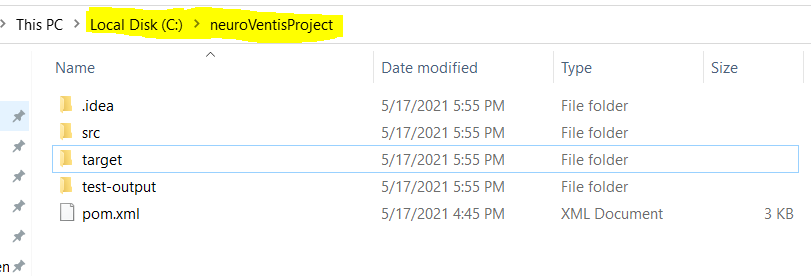
<https://github.com/Neuroventis/AutomationSuite>

UserName: **Neuroventis**

Pwd: **Neuroventis@123**



2) Copy the zip file and extract the file to “C:” drive with the same project folder name.



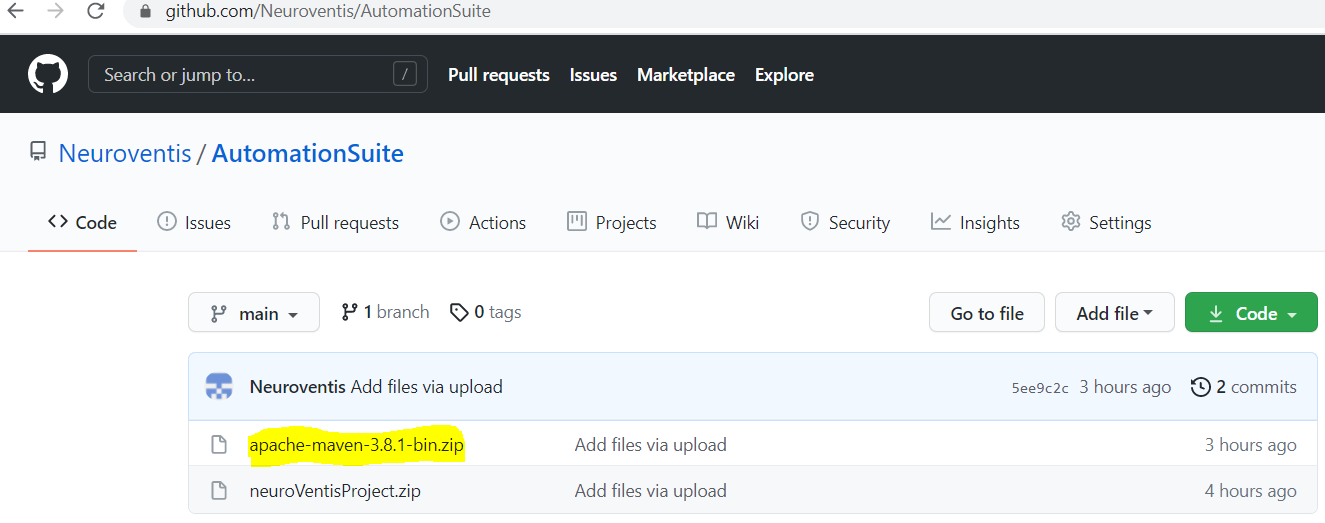
## Install Maven

1) Now need to install Maven related software in the system, Maven zip file is in the GitHub repository:

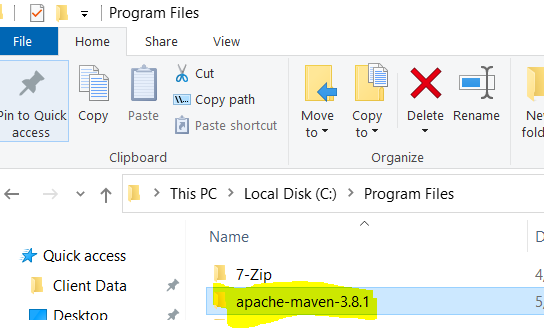
<https://github.com/Neuroventis/AutomationSuite>

UserName: **Neuroventis**

Pwd: **Neuroventis@123**



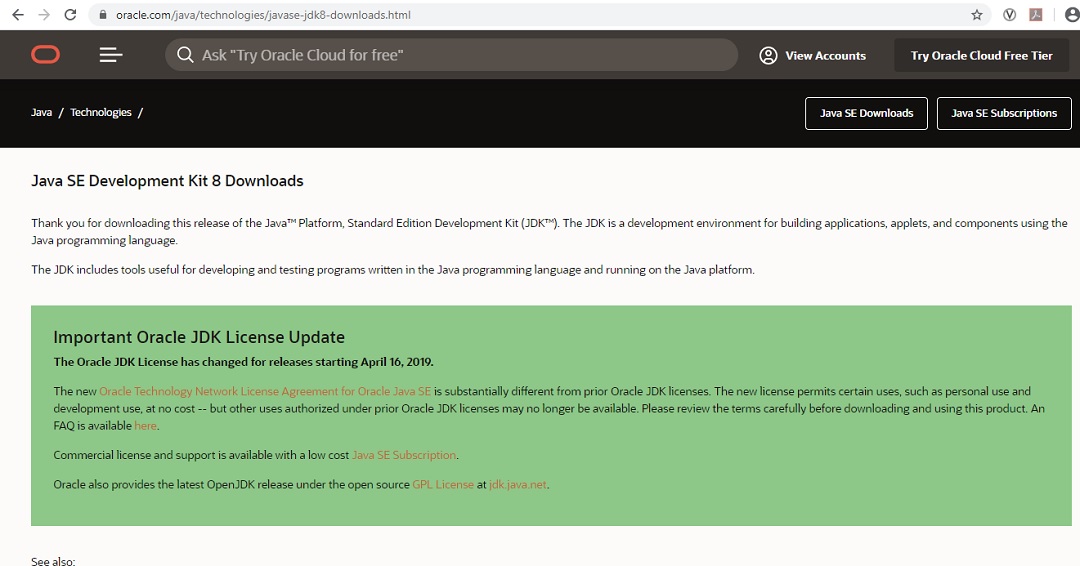
2) Extract the zip file into your “C:” drive, it can be extracted into any location but keep remember the location of the files:



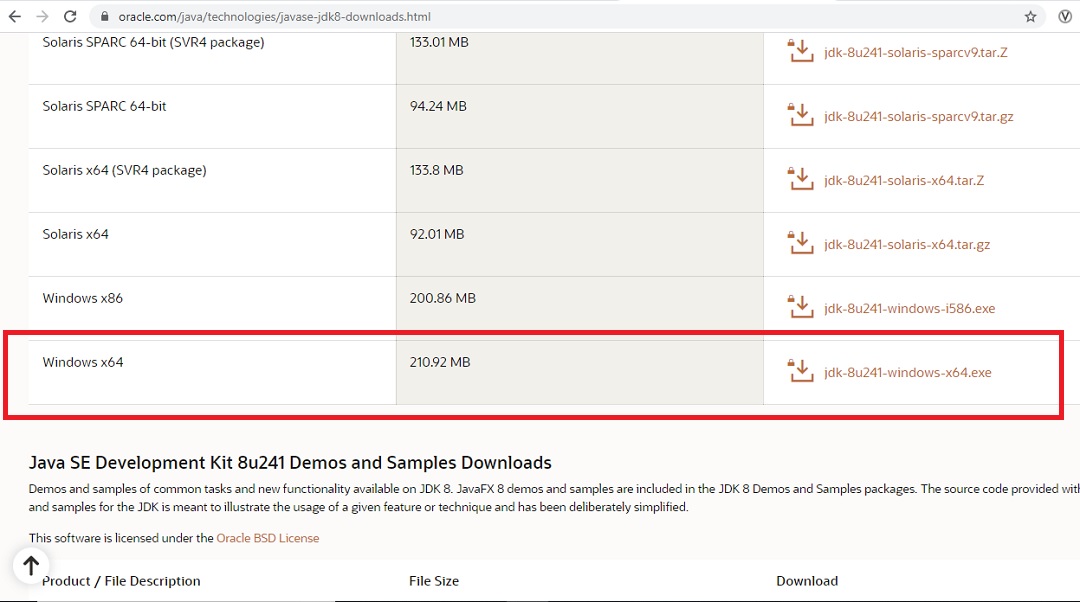
## Install Java JDK

1) Step-1: Download Java JDK 8

You can download Java 8 from the Oracle’s [Java official website](https://www.oracle.com/java/technologies/javase-jdk8-downloads.html).

[](https://www.shaileshjha.com/step-by-step-how-to-download-and-install-java-se-jdk-8-on-windows-10/java-downlaod-page-jdk-8/)

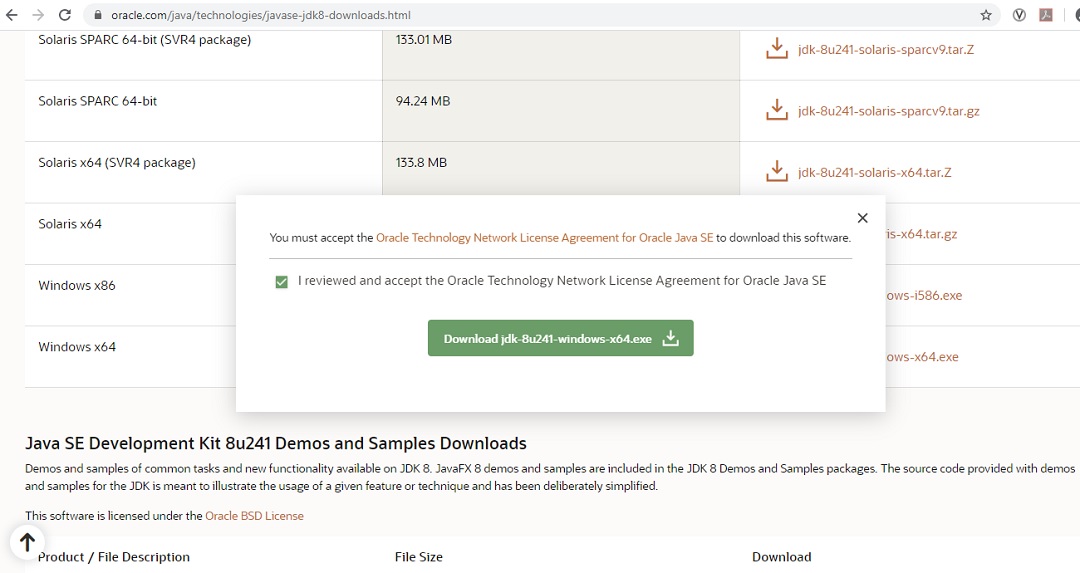
Scroll down and you will see various download options for various platforms.  
You will see two option, 32- and 64-bit versions for download. You can choose either of them based on your system. Since the world is moving towards 64-bit architecture, I use the 64-bit version. File ending with i586.exe is the 32-bit version whereas the file ending with x64 is the 64-bit version.

[](https://www.shaileshjha.com/step-by-step-how-to-download-and-install-java-se-jdk-8-on-windows-10/java-jdk-8-download-page/)

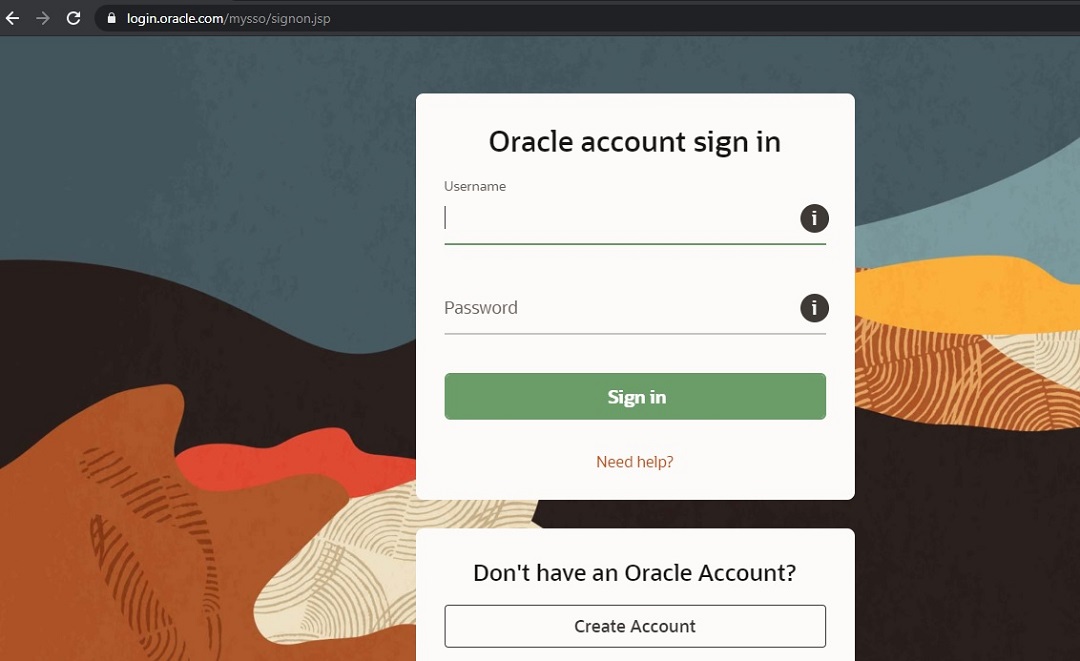
Click on the version you want to download which is 64-bit version which in my case is jdk-8u241-windows-x64.exe.

Go ahead, accept the license agreement and download the file.

Note: Oracle does not allow you to download older versions of Java such as Java 8 without registering with Oracle. That is why we must create an account and login to be able to download.

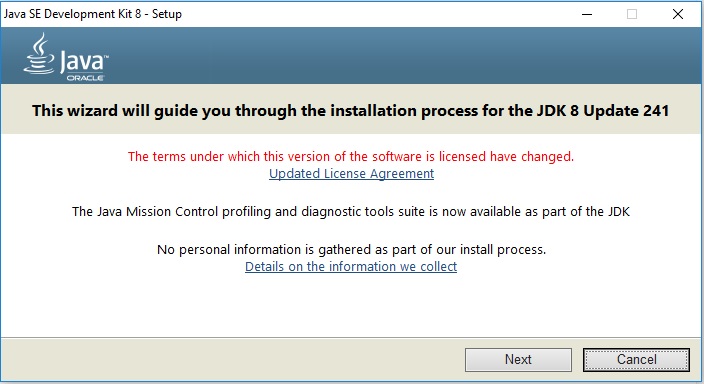
[](https://www.shaileshjha.com/step-by-step-how-to-download-and-install-java-se-jdk-8-on-windows-10/java-jdk-8-download-licence-agreement/)

You will be asked to login to start the download. If you don’t have an Oracle account, you can create here.

[](https://www.shaileshjha.com/step-by-step-how-to-download-and-install-java-se-jdk-8-on-windows-10/oracle-login-page/)

2) Step 2- Run the Installer

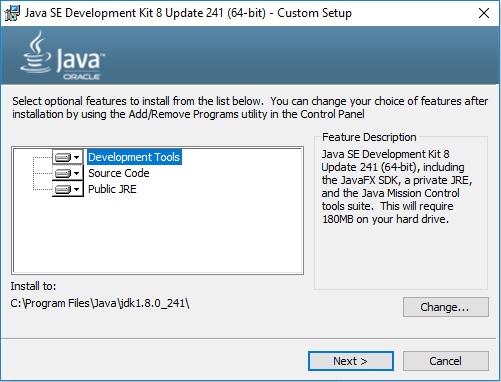
To start the installation process, run the installer by double clicking it. You will see the installation wizard.

[](https://www.shaileshjha.com/step-by-step-how-to-download-and-install-java-se-jdk-8-on-windows-10/java-se-jdk-8-installation-wizard-2/)

Click Next to continue

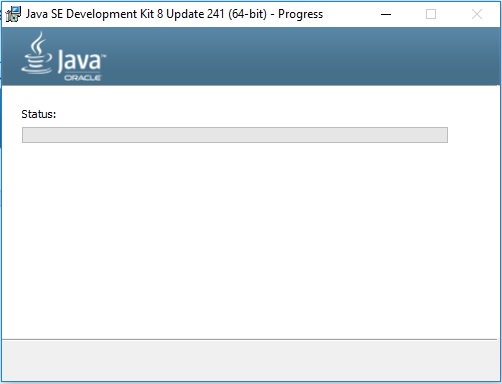
3) Step 3- Custom Setup

In this screen you can change certain installation defaults. I accept this as it is. You can change the installation directory if you want by clicking on change. Click next to continue.

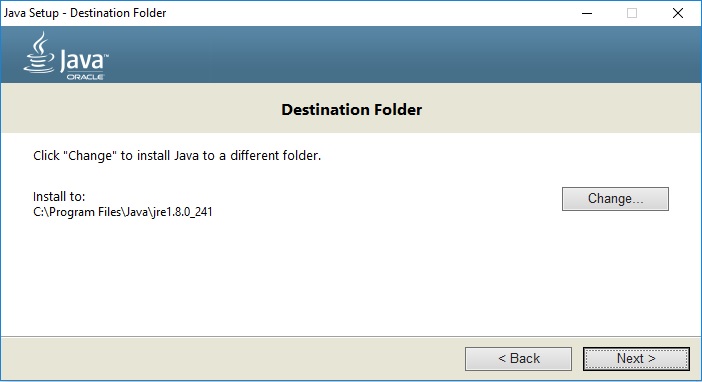
[](https://www.shaileshjha.com/step-by-step-how-to-download-and-install-java-se-jdk-8-on-windows-10/java-se-jdk-8-installation-wizard-custom-setup-2/)

4) Step 4 – Installation begins

You will see the installation begins

[](https://www.shaileshjha.com/step-by-step-how-to-download-and-install-java-se-jdk-8-on-windows-10/java-se-jdk-8-installation-progress-2/)

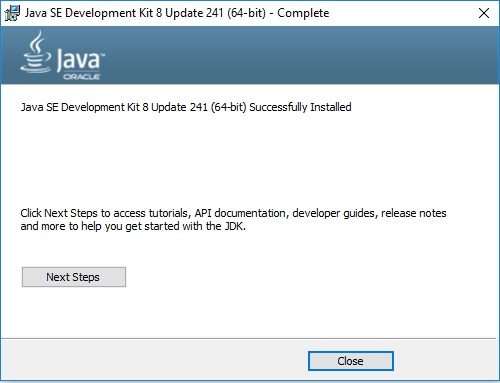
You will be asked to specify the default installation folder for JRE. I accept the default and click next.

[](https://www.shaileshjha.com/step-by-step-how-to-download-and-install-java-se-jdk-8-on-windows-10/java-se-jdk-8-installation-specify-jre-destination-folder-2/)

After this the installation will continue. Wait for some time for the installation process to complete.

[](https://www.shaileshjha.com/step-by-step-how-to-download-and-install-java-se-jdk-8-on-windows-10/java-installation-progress/)

Once the installation completes, you will see the Installation complete message.

[](https://www.shaileshjha.com/step-by-step-how-to-download-and-install-java-se-jdk-8-on-windows-10/java-se-jdk-8-installation-complete-2/)

Click on close to complete the installation.

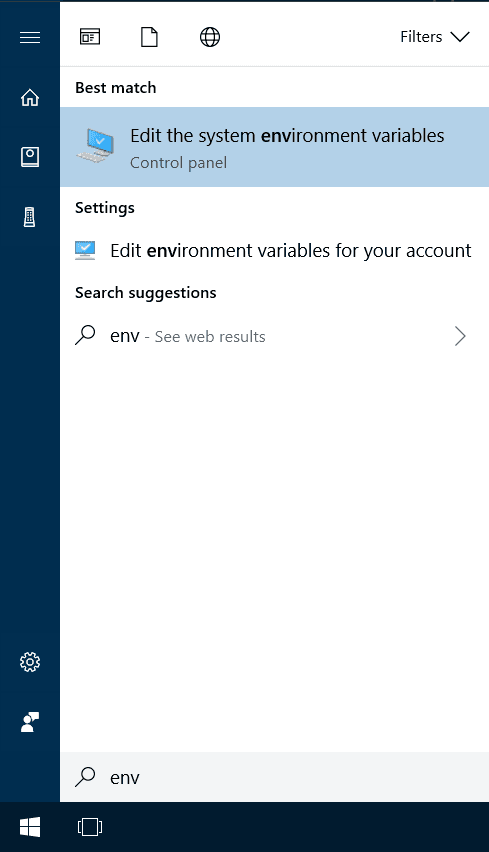
5) Step 5- Check the version of Java installed, go to windows terminal **cmd** and run the command:

**java -version** to check the version of Java installed.

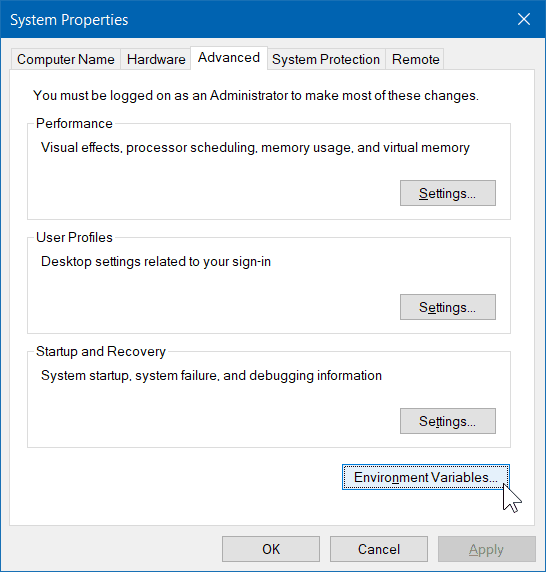
That’s it, now you have Java JDK installed on your system.

## Setup Environment Variables

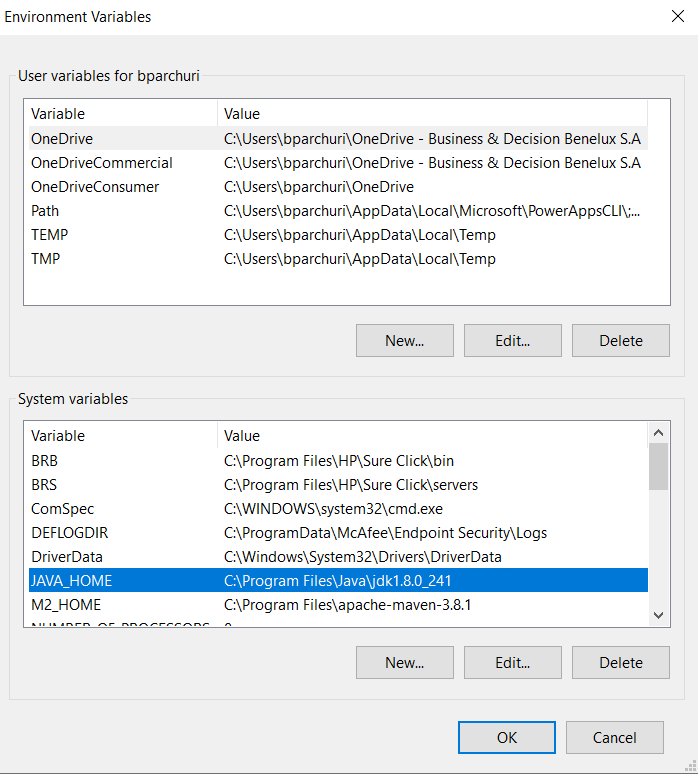
1. Open the Start Search, type in “env”, and choose “Edit the system environment variables”:

[](https://www.architectryan.com/static/start_menu-91c0473bae32fa3862658e4d6e62d75c-2facb.png)

1. Click the “Environment Variables…” button.

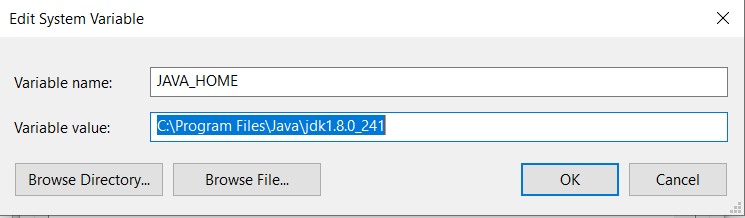
[](https://www.architectryan.com/static/system_properties-f3a4f86cdd178c48ed9d8398743f85df-39c95.png)

1. Under System variables, click on New button

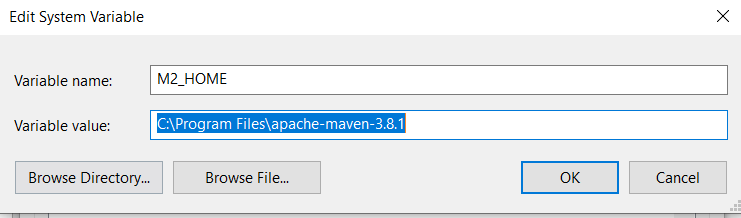


1. Create new JAVA\_HOME and M2\_HOME variables like below

JAVA\_HOME: C:\Program Files\Java\jdk1.8.0\_241 (Path till JDK folder only not bin folder)



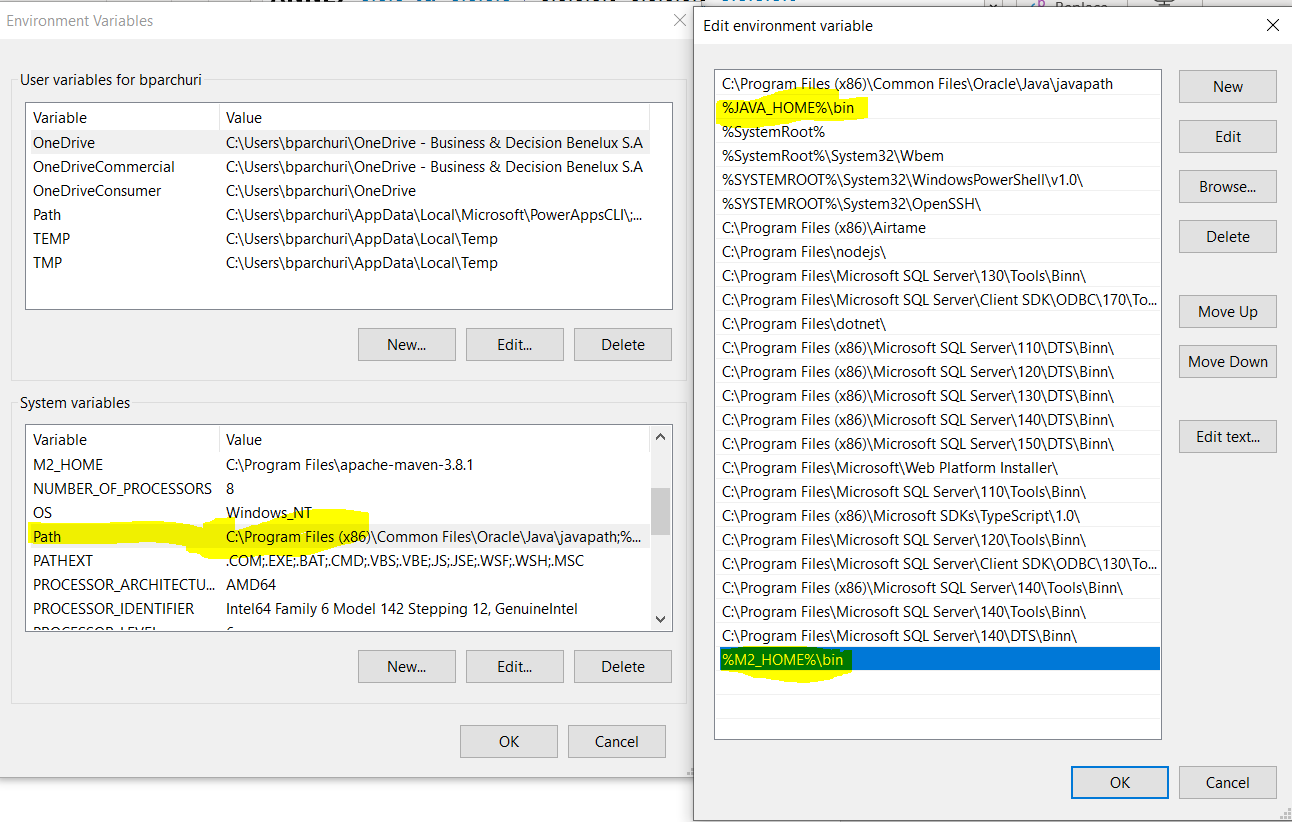
M2\_HOME: C:\Users\Amit Joshi\Downloads\apache-maven-3.8.1 (Path till here not bin folder)



1. Dismiss all the dialogs by choosing “OK”. Your changes are saved!
2. Add both paths in environment variable 'Path' as follows:

%M2\_HOME%\bin

%JAVA\_HOME%\bin

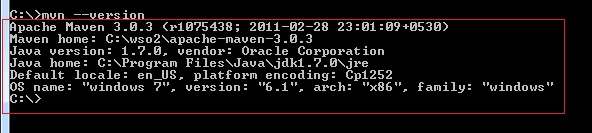


1. Dismiss all the dialogs by choosing “OK”. Your changes are saved!
2. Verify Apache Maven Installation:

Open Windows command prompt (CMD). Click "Start" > "Run" and enter "cmd" without quotes and click "OK" to access CMD. In the opened CMD window, type the following command and press <Enter>:



1. Information on current version of Apache Maven and M2\_HOME location is displayed like below:



## How to Execute test Suite

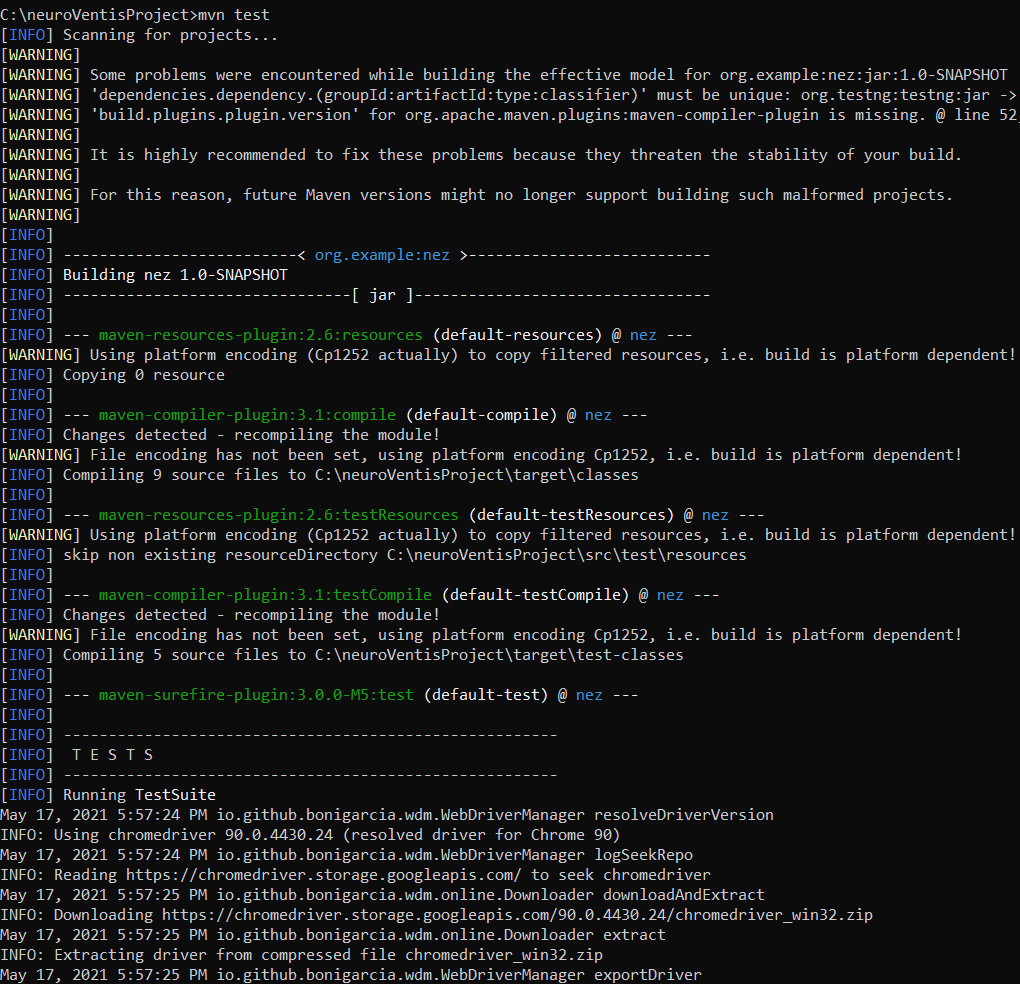
1. Open Windows command prompt (CMD).
2. Click "Start" > "Run" and enter "cmd" without quotes and click "OK" to access CMD.
3. In the opened CMD window, go to Project Location Folder like below, without going to Project location folder the test suite will be failed.



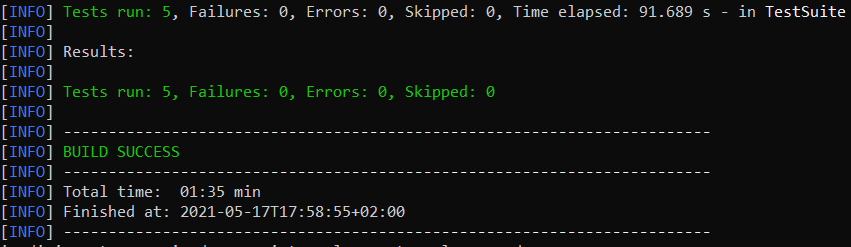
1. Type the below command to start the test suite:



1. You can see the progress bar like below



1. Once all test cases executed it will generate a report like below in Command Prompt:



1. During the execution process, it will open New Chrome Browser Windows where you can see the application running with all the process. Don’t close these browsers and disturb them until all tests are executed.

## Sample test Email Report:

Here is the sample email report generated after execution of test cases:

