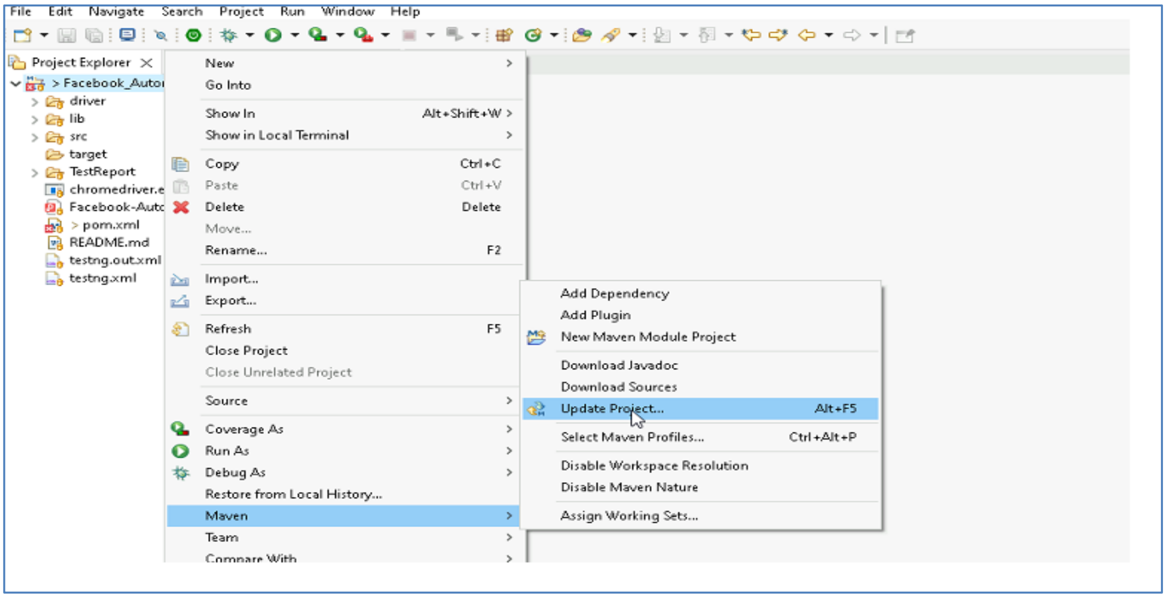
HEALTHAPP AUTOMATION VERIFICATION MODULE – PL2

HealthApp Automation – Verification

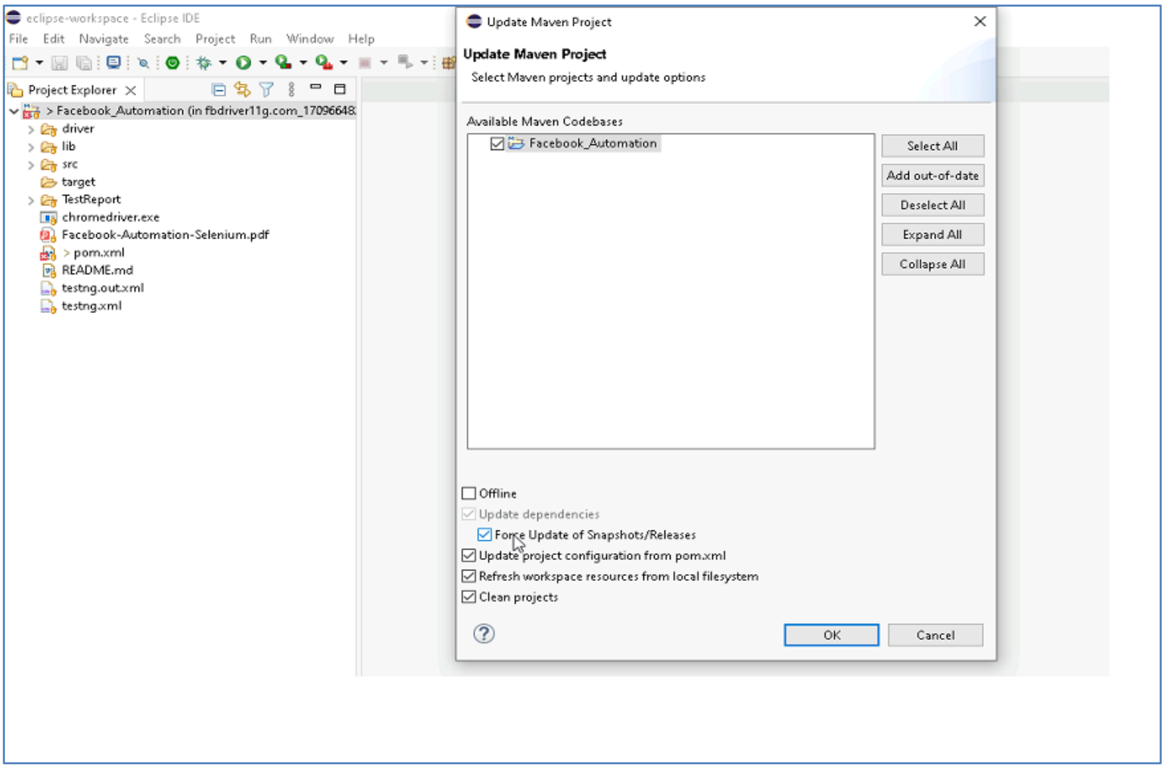
Pre-requisite:

As soon as you import project in eclipse, update the project using maven update option as below. This is to resolve issue if any maven dependency not downloaded properly:

1. Right click on project : Go to “Maven” : Select “Update Project”



2. In Update Maven Project Box Select “Force Update of Snapshots/Releases” and click OK



Template Code Structure:

a. Below are the packages and files you will be required to work upon.

b. Other Files and packages you can ignore.

c. In other Files and packages do not do any changes. It would affect your evaluation.

d. You are not required to work in "Test" Folder. Files there are non-editable. Editing those files and trying to save them will throw error and would affect your evaluation.

Package	Class/File	Description
src/main/java/coreUtilities/utils/	FileOperations.java	1. Contains methods to read from json file. 2. Method is in templated form. **You will be required to implement these methods as very first activity, because even URL to navigate to, is read using these methods.**
/src/main/java/pages	verification_page.java	1. All core activities (mentioned in list above) to be performed here. 2. The comments associated with each templated method here describe the expectation. 3. You can define locators and xpath here. 4. Declare any variable/object you need to share data/status between different methods. 5. Do not modify the signature of methods declared here. 6. You can create additional supportive common methods in CommonEvents class.
/src/main/resources/	Config.xlsx	URL to navigate to. Already URL is defined here
	expected_data.xlsx	Contains data to fill in form\

/src/main/java/coreUtilities/utils	CommonEvents.java	1. Contains all common activities. 2. Certain templated common method declared here. 3. You implement them as per your need. 4. You can add any additional method for common activity here
	Testng.xml	Execution needs to kick started from TestNG xml

PROBLEM STATEMENT

Need to automate the following activities using Selenium + Java.

Key Activities to implement:

#	Summary	Action	Expected Result
1	To confirm that the Verification module is available and accessible within the HealthApp's user interface.	**Steps**: 1. **Login Verification**: Ensure that the user is logged into the HealthApp. 2. **Navigate to the Verification Module**: Scroll through the main menu to locate the Verification section 3. **Access the Verification Module**: Click on the Verification module to test whether it can be accessed or expanded to reveal further options or functionalities.	The Verification module should be listed in the HealthApp's menu, confirming its inclusion in the range of services offered by the application.
2	To ensure that all designated sub-modules(Displayed after expanding verification module) in left panel are correctly displayed under the Verification module.	**Preconditions**: The user must be logged into the health system. The user is currently on the Verification module's main page. **Steps**: 1. **Expand Verification Module**: Find and click on the drop-down arrow or equivalent control that expands the Verification module. 2. **Observe Sub-Modules Display**: Once the Verification module is expanded, observe the list of sub-modules that appear. Verify that all expected sub-modules are correctly displayed. For this test case, the expected sub-modules are: ○ **Inventory** ○ **Pharmacy**	All sub-modules should be displayed correctly. Expected Sub modules are : Inventory, Pharmacy

<table>
<tr><td>3</td><td>Verify the presence of Requisition tab in inventory section with all fields</td><td>Preconditions: The user must be logged into the health system.
Steps:
1. Access Verification Module: Ensure the user has navigated to the Verification module.
2. Navigate to Inventory Section: Click on the "Inventory" option to access its features.
3. Access Requisition Tab: Within the Inventory section, locate and click on the "Requisition" tab.
4. Verify Components of Requisition Tab: following items should be present :
Tabs: Confirm the presence of different tabs like Requisition, Purchase Request, Purchase Order, and GR Quality Inspection
Buttons: Look for buttons such as Ok, Print, First, Previous, Next, Last, and View.
Fields: Check for a Search bar.
Dropdown Menus: Verify dropdown menus for Requisition Status, Date range.
Status Radio Buttons: Ensure radio buttons for filtering requisitions by status (Pending, Approved, Rejected, All) are available and selectable.
Date Pickers: Confirm the presence of From and To date pickers to specify date ranges.
Tooltip: Verify a tooltip appears when hovering over star icon.</td><td>The Requisition tab should be easily accessible and contain all listed components</td></tr>
<tr><td>4</td><td>To ensure seamless navigability between the Inventory and Pharmacy sections within the Verification module, confirming the user interface's intuitive design and functionality.</td><td>Preconditions: The user must be logged into the health system. The user is located within the "Requisition" tab under the Inventory section of the Verification module.
Steps:
1. Navigate to Inventory Section: Start from the "Requisition" tab, which is part of the broader Inventory management functionalities.
2. Return to Inventory Main Section: Click on the "Inventory" link from within the Requisition tab or sidebar.
3. Switch to Pharmacy Section: From the main Inventory section, locate and click on the "Pharmacy" submodule link.</td><td>The navigation actions should be smooth and error-free. Clicking on the "Inventory" should first reorient the user to the main Inventory section. Subsequently clicking on "Pharmacy" should redirect the user correctly to the Pharmacy section, displaying all relevant interfaces.</td></tr>
<tr><td>5</td><td>To confirm that users can seamlessly navigate from the Requisition sub-tab to the Purchase Order sub-tab within the Inventory section of the Verification module.</td><td>Preconditions: The user must be logged into the health system. The user is currently within the Verification module, specifically under the Inventory section.
Steps:
1. Access the Requisition Sub-Tab: Ensure the user is on the Requisition sub-tab within the Inventory section.
2. Navigate to the Purchase Order Sub-Tab: From the Requisition sub-</td><td>The transition to the "Purchase Order" sub-tab should be smooth and error-free, with the system quickly displaying the Purchase Order interface and related functionalities.</td></tr>
</table>

		tab, locate and click on the "Purchase Order" sub-tab.	
6	To confirm that users can successfully use date filters to search for data within the Verification module by selecting specific date ranges, and to verify that the search results reflect data from the selected time period.	**Preconditions**: The user must be logged into the health system. The user is currently on Requisition tab of Inventory sub module of the Verification module. **Steps**: 1. **Select the "From" Date**: Choose a date that is 7 days back from the current date. 2. **Set the "To" Date**: After setting the "From" date, click on the "To" date picker to select the end date for the filter. Choose the current date from the calendar that appears, setting the end of the range to today's date. 3. **Apply Date Filter**: Click the "OK" button to apply the selected date range to the data search.	The date pickers for both "From" and "To" should function correctly, allowing for easy selection of dates. Upon clicking "OK," the system should efficiently apply the selected date range as a filter.
7	To ensure that when a user hovers the mouse over the "Star" icon within the Requisition tab of the Inventory submodule in the Verification module, a tooltip appears.	**Preconditions:** The user must be logged into the health system. The user is located within the Requisition tab of the Inventory submodule in the Verification module, where the "Star" icon is visible. **Steps:** **1.** **Locate the "Star" Icon:** Identify the "Star" icon within the Requisition tab. **2.** **Hover Over the "Star" Icon:** Move the mouse cursor over the "Star" icon and hold it there without clicking. This action should trigger the display of a tooltip. 3. **Verify Tooltip and Text:** Verify that the tooltip contains the exact text **"Remember this date"**	Tooltip should be present when hover the mouse on star with text **"Remember this date".**
8	o verify that the system retains selected date ranges within the Verification module when navigating between the "Pharmacy" and "Inventory" tabs, ensuring that user inputs are preserved across different sections for consistent user experience.	**Preconditions:** The user must be logged into the health system. The user is located within the Requisition tab of the Inventory submodule in the Verification module **Steps**: 1. **Set 'From' Date**: Navigate to the date selection interface and click on the "FROM" date picker. Select a date 50 days older then the current date. 2. **Set 'To' Date**: Similarly, click on the "TO" date picker and choose current date as the to date for the date range. 3. **Interact with 'Star' Tooltip**: After setting the dates, hover over or click on the "Star" icon to trigger its tooltip. 4. **Confirm Date Range**: Click on the "OK" button to apply the selected	When navigating away to the "Pharmacy" tab and then returning to the "Inventory" tab, the system should remember and display the dates as previously set.

		date range. This action should lock in the dates for the current session or view. 5. **Navigate to Pharmacy Tab**: Click to navigate to the "Pharmacy" tab within the Verification module 6. **Return to Inventory Tab**: After spending some time in the "Pharmacy" tab, navigate back to the "Inventory" tab. This step is crucial to check if the date selections made earlier are still active and correctly displayed.	
9	To ensure that selecting the "Last one Month" option from the date range dropdown accurately filters data, displaying records that fall within the last month from the current date in the 'Requested on' column.	Preconditions: The user must be logged into the health system. The user is located within the Requisition tab of the Inventory submodule in the Verification module **Steps:** 1. Access Date Range Dropdown: Locate and click on the date range button within the Verification module. 2. Select 'Last One Month' Option: From the dropdown menu that appears, select the "Last one Month" option. 3. Apply Date Filter: After selecting the desired date range, click the "OK" button to apply this filter to the data being viewed.	After applying the filter by clicking "OK", the system should refresh the data displayed, ensuring only records from the last month are shown in the 'Requested on' column or relevant data field.
10	To ensure that the status radio buttons ("Pending", "Approved", "Rejected", "All") in the Verification module are present, functional, and allow for filtering records based on their respective statuses.	**Preconditions:** The user must be logged into the health system. The user is located within the Requisition tab of the Inventory submodule in the Verification module. **Steps**: 1. **Select 'Pending' Radio Button**: Locate and click on the "Pending" radio button under the "List by Verification Status" section, the "Pending" status is applied. 2. **Select 'Approved' Radio Button**: Click on the "Approved" radio button. This action should filter the records to display those that have been approved. 3. **Select 'Rejected' Radio Button**: Click on the "Rejected" radio button to filter the records to display those that have been rejected. 4. **Select 'All' Radio Button**: Finally, click on the "All" radio button to reset the filter and show all records, regardless of their status. This button is crucial for removing any specific filters and viewing the complete set of records.	The "Pending" radio button should be Selectable The "Approved" radio button should be Selectable The "Rejected" radio button should be Selectable The "All" radio button should be Selectable

11	To confirm that selecting the 'Active' status from the Requisition Status dropdown effectively filters records to display only those with an 'Active' status in the 'Req. Status' column.	**Preconditions:** The user must be logged into the health system. The user is located within the Requisition tab of the Inventory submodule in the Verification module. **Steps**: 1. **Access Dropdown**: Click on the Requisition Status dropdown. 2. **Select 'Active'**: Choose the 'Active' option from the dropdown. 3. **Verify Filtering**: Ensure records in the 'Req. Status' column display as 'Active'.	pon selection, only records with an 'Active' status should be visible, confirming the dropdown's functionality.
12	Ensure the 'View' button functions correctly, allowing users to access detailed requisition information.	**Preconditions**: The user is located within the Requisition tab of the Inventory submodule in the Verification module. **Steps**: 1. **Select 'All' Status**: Activate the 'All' radio button to show all records. 2. **Set Date Range**: Set 'FROM' date to "31-12-2023" and 'TO' date to the current date. 3. **Apply Date Filter**: Click 'OK' to filter records. 4. **Use 'View' Button**: Click 'View' in a specific row's action column.	Clicking 'View' should navigate to the "Check and Verify Requisition" page, showing detailed information for that row.
13	To ensure that the record count displayed in the Purchase Request sub-tab under the Inventory section of the Verification module accurately reflects the total number of records available.	**Preconditions**: The user is located within the Requisition tab of the Inventory submodule in the Verification module. **Steps:** 1. **Navigate to Inventory:** Click on the inventory section. 2. **Open Purchase Request Sub-Tab:** Click on "Purchase Request". 3. **View All Records:** Select the "All" radio button. 4. **Check Record Count:** Confirm the count displayed matches the list count.	Displayed record count at the bottom matches the total records shown.
14	Ensure that the user can smoothly scroll up and down on the page to access and verify the visibility of elements.	**Preconditions**: The user is located within the Purchase Request tab of the Inventory submodule in the Verification module. **Steps**: 1. **Check Initial Visibility**: Confirm the "Pending" radio button is visible at the top of the page. 2. **Scroll to Bottom**: Scroll to the bottom of the page. 3. **Verify Bottom Element**: Ensure the "Previous" button is visible at the bottom. 4. **Scroll to Top**: Scroll back to the top of the page.	The user should be able to scroll up and down the page without issues.

		5. **Re-verify Top Element**: Confirm the "Pending" radio button is still visible.	
15	Ensure that the "Item" field is correctly identified as required in the Purchase Request section of the Inventory module.	**Preconditions:** The user is located within the Purchase Request tab of the Inventory submodule in the Verification module. **Steps**: 1. **Access Purchase Request**: Navigate to the "Internal" section within Inventory, and click on "Purchase Request". 2. **Initiate Purchase Request Creation**: Click on the "Create Purchase Request" button to start a new purchase request. 3. **Attempt to Submit Empty Request**: Without entering any information, particularly in the "Item" field, click the "Request" button to attempt submission. 4. **Check for Validation**: Observe the response, specifically looking for validation cues around the "Item" field.	Upon attempting to submit the purchase request without specifying an item, the "Item Name" field should highlight with a red border. A warning message should appear beneath the field, stating "Item is required", indicating the necessity to fill this field before proceeding.

NOTE: "Please do not delete any file in the src folder. But you are free to add any other file".

Expectations:

1) Learners should write automation script using Java and selenium to automate all the steps in the above question. In other words, automation script should perform all mentioned steps.
2) Learners should not use any tools to create the xpath. They should develop the xpath/cssselector on their own.

IMPLEMENTATION/FUNCTIONAL REQUIREMENT

1.1 Code Quality/Optimizations

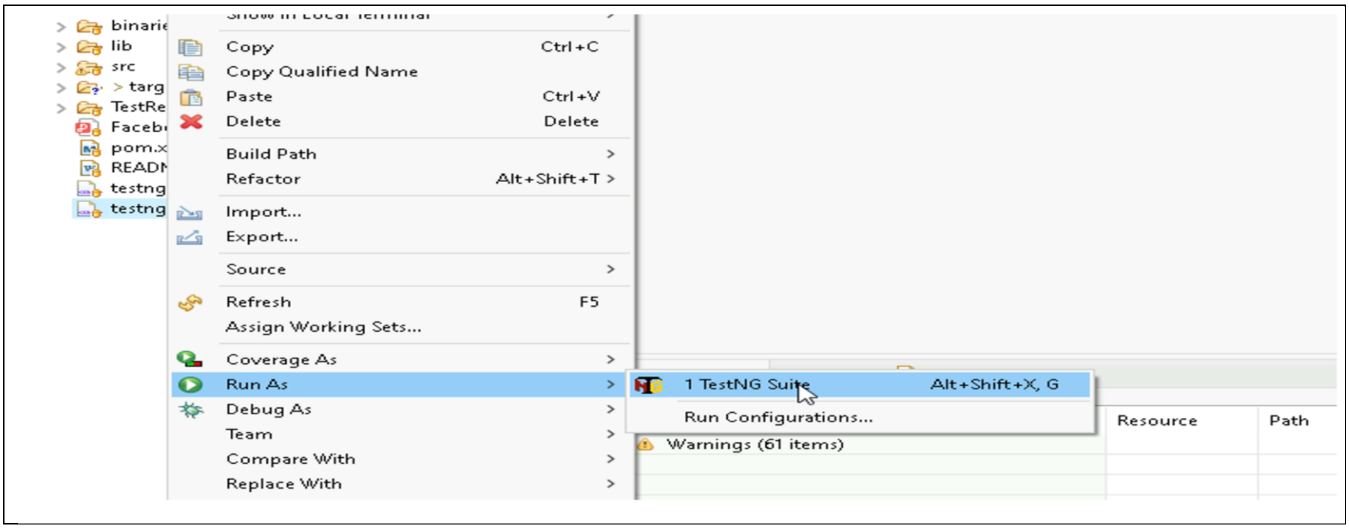
1. Associates should have written clean code that is readable.
2. Associates need to follow SOLID programming principles.

EXECUTION STEPS TO FOLLOW

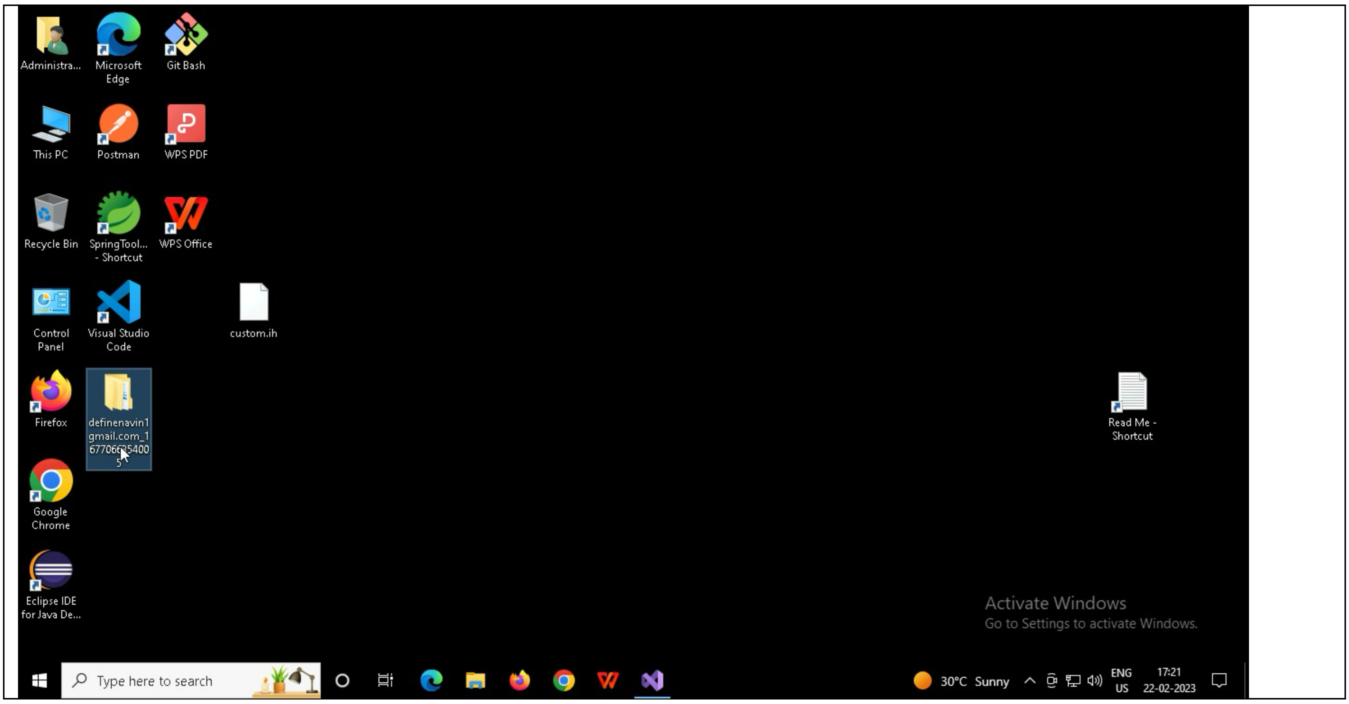
1. **You are mandatory required to run test cases for applications before final submission.**

Without which project evaluation will not happen.

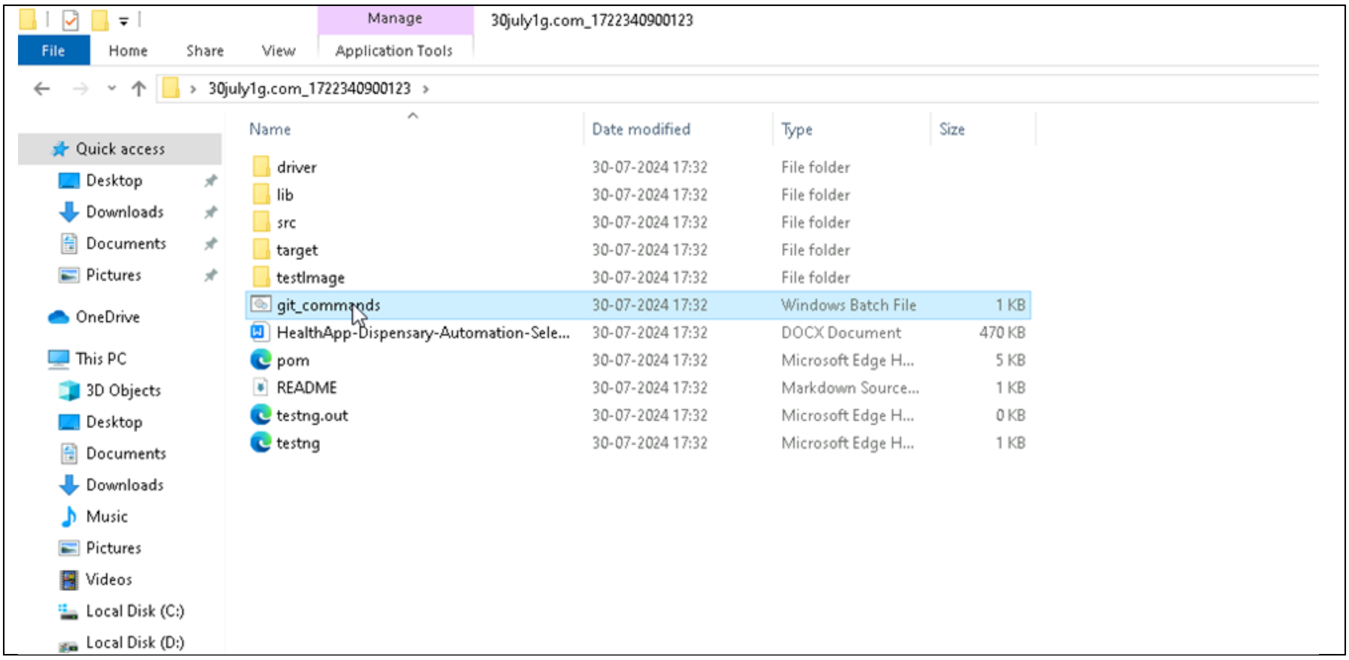
2. **You can launch test cases any time as follows: Right click on testng.xml and run TestNGSuite.**



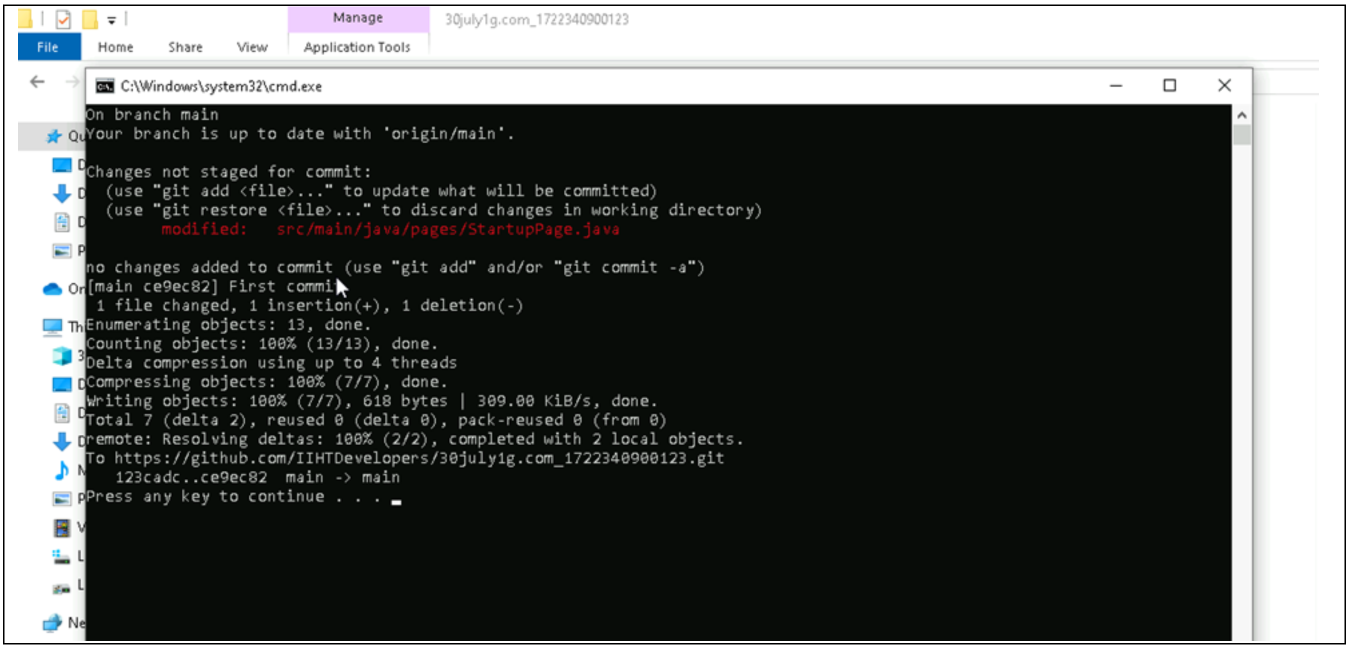
3. **Before final submission, you are also required to push your code to GIT. Following are the steps to follow:**



In your project folder, you will find a batch file named git_commands

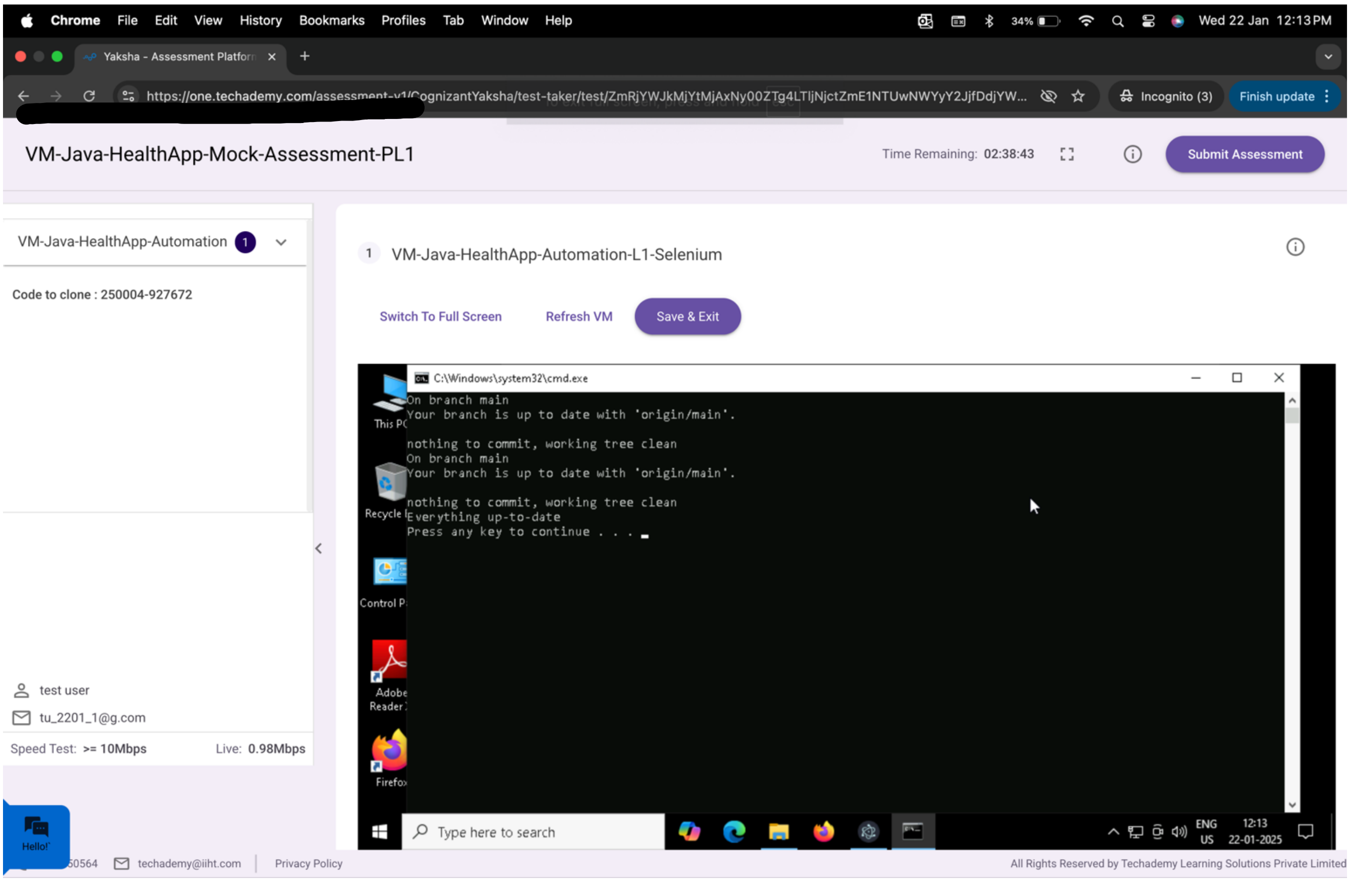


Double-click the batch file to run it. It will run the commands to push your code to GIT.



Once the code is pushed to git, you can go for the final submission of the assessment.

- Press escape to come out of Fullscreen mode.
- Submit the assessment.



After the successful submission of the assessment, you will get a confirmation message displayed on your screen.

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All the Best