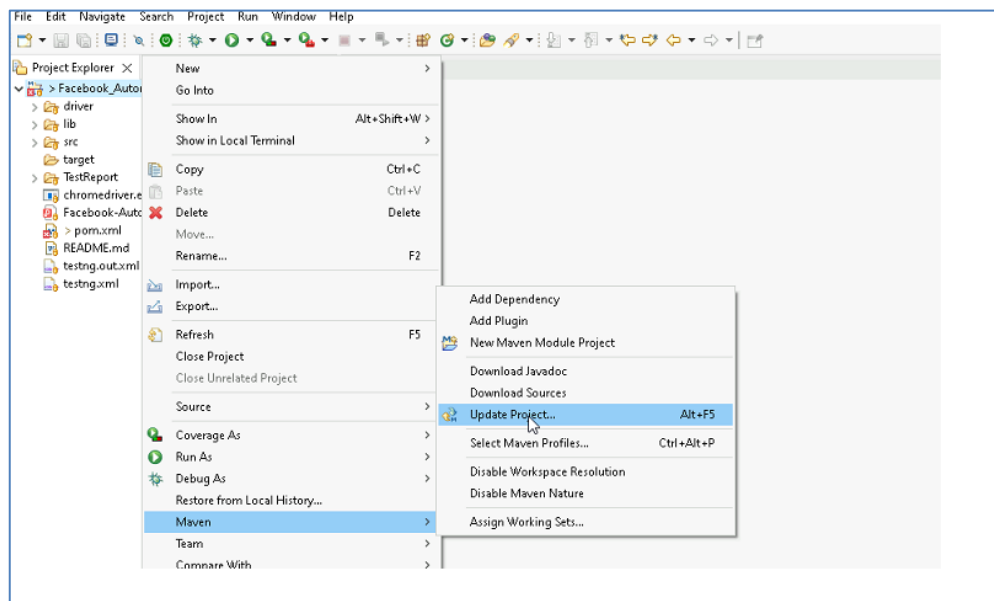# HEALTHAPP AUTOMATION OPERATION THEATRE – PL2

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

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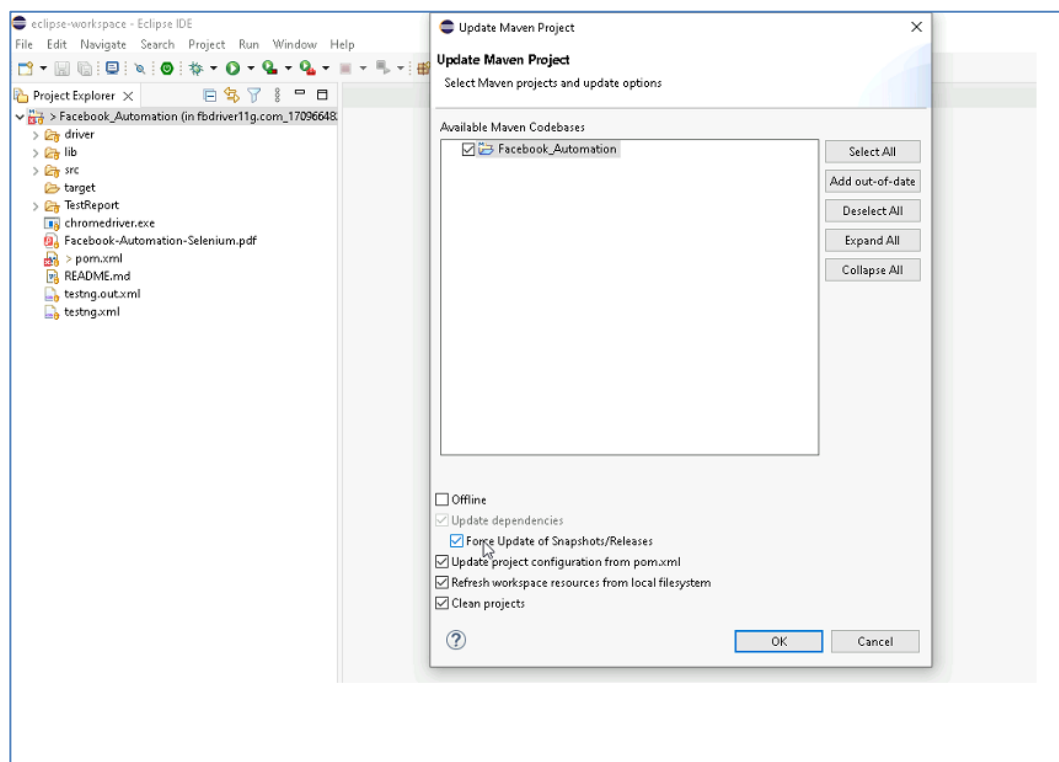
Template Code Structure:

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 excel file. 2. Method is in templated form. 3. **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	operationTheatre_Pages.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

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	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	• Navigate to the URL. • Retrieve Title and URL of the current page. • Verify Title & URL: Check if the title & URL matches the expected title.	1. go to url : **https://healthapp.yaksha.com/** 2. login as valid credential **(username : admin , password : pass123)** and click on "**SignIn**" Button 3. get the title and url of the Home page, post login 4. validate the title and url of the Home page	Title should be : **DanpheHealth** Url should be : **https://healthapp.yaksha.com/Home/Index#/**
2	Confirm the presence of the OperationTheatre module in the application and verify the "Hospital Number" header text within a specific table on the OperationTheatre page.	**Preconditions**: The user must be logged into the system. **Steps**: 1. **Check for Module Presence**: After logging in, inspect the left navigation panel to see if the OperationTheatre module is listed. 2. **Module Navigation**: If the OperationTheatre module is present, click on it to navigate to the associated page. 3. **Verify Header Text**: On the OperationTheatre page, locate the specific table and check if the "Hospital Number" header text is present.	The OperationTheatre module should be found within the left navigation panel. Upon clicking the module, the user should be redirected to the appropriate page and The "Hospital Number" header text must be visible in the designated table on the OperationTheatre page, confirming its presence and correct labelling.
3	Ensure that the "New OT Booking" button is present on the OperationTheatre page and that clicking it opens the "Booking OT Schedule | New Patient" form.	**Preconditions**: The user must be logged into the system and present on the OperationTheatre page. **Steps**: 1. **Validate Button Presence**: Check for the presence of the "New OT Booking" button on the OperationTheatre page to ensure it is visible and accessible.	The "New OT Booking" button should be located and identifiable on the OperationTheatre page. Upon clicking the button, the "Booking OT Schedule | New Patient" form should appear, correctly labeled, indicating successful linkage and functionality.

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		2. **Button Functionality Test**: Click on the "New OT Booking" button. 3. **Verify Popup Form**: Confirm that clicking the button triggers the popup of the "Booking OT Schedule | New Patient" form. Ensure the form is correctly titled and contains the expected fields and options.	
4	Verify the presence of necessary textboxes on the "Booking OT Schedule | New Patient" form and confirm the accuracy of data entry.	**Preconditions**: User must be logged into the system and have navigated to the "Booking OT Schedule | New Patient" form. **Steps**: 1. **Verify Textbox Presence**: Confirm that the "Select Patient", "Diagnosis", and "Type of Surgery" textboxes are present on the form. Each should be visible and accessible for data entry. 2. **Data Entry for Select Patient**: Enter data into the "Select Patient" textbox with a patient's name or identification detail. 3. **Data Entry for Diagnosis**: Input relevant diagnostic information into the "Diagnosis" textbox. 4. **Data Entry for Type of Surgery**: Enter the type of surgery into the corresponding textbox. 5. **Verify Data Accuracy in Select Patient Textbox**: After data entry, check that the data in the "Select Patient" textbox is displayed correctly and matches the input to ensure that the system captures and reflects the entry accurately.	- Each required textbox ("Select Patient", "Diagnosis", and "Type of Surgery") should be confirmed as present on the form. - Data entered into these textboxes should correctly reflect the input values. - Verification of the "Select Patient" textbox should confirm that the entered data remains unchanged and correctly displayed after entry.
5	On the "Booking OT Schedule | New Patient" form's validate that Remarks field is present or not ? Verify "**Remarks**" Text area is enable and verify the placeholder name of "**Remarks**" text area. Ensure the "Remarks" text area is present, enabled, and has the correct placeholder text on the "Booking OT Schedule | New Patient" form.	**Preconditions**: The user must be logged into the system and present on the "Booking OT Schedule | New Patient" form. **Steps**: 1. **Verify Presence of Remarks Field**: Check if the "Remarks" text area is present on the form to confirm its availability for user input. 2. **Verify Field Is Enabled**: Ensure that the "Remarks" text area is enabled and interactive, allowing data entry. 3. **Retrieve Placeholder Text**: Get the placeholder text from the "Remarks" text area to confirm it matches the expected placeholder. 4. **Verify Placeholder Name**: Confirm that the placeholder text in the "Remarks" text area reads "Remarks". 5. **Print Placeholder on Console**: Print the verified placeholder name on the console to ensure it has been correctly identified and matches the expected value.	The "Remarks" text area should be found on the form and be enabled for interaction. The placeholder text should correctly display as "Remarks". The correct placeholder text should be printed on the console as a final verification step.
6	To ensure that entering "Dr. Pooja Mishra" in the surgeon name textfield triggers the appearance of the corresponding button on the form just below the **"Surgeon Name"** text field.	**Preconditions**: The user must be logged into the system and actively on the "Booking OT Schedule | New Patient" form. **Steps**: 1. **Enter Surgeon Name**: Enter "Dr. Pooja Mishra" into the surgeon name textfield. 2. **Navigate to Remarks Field**: After entering the surgeon's name, click on the "Remark" textfield to shift focus, which may help in triggering any dynamic UI changes based on the name entry. 3. **Verify Button Presence**: Check for the presence of a button labelled "Dr. Pooja Mishra" below the surgeon textfield.	After typing "Dr. Pooja Mishra" and navigating to another field, a button with "Dr. Pooja Mishra" should dynamically appear below the surgeon textfield.

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		This button should appear as a result of the name entry.	
7	Confirm that the "External?" checkbox can be selected and that its state changes as expected when clicked.	**Preconditions**: The user must be logged into the system and positioned on the "Booking OT Schedule | New Patient" form. **Steps**: 1. **Locate Checkbox**: Identify the "External?" checkbox on the form. 2. **Toggle Checkbox**: Click on the "External?" checkbox to change its state to selected. 3. **Verify Selection**: Check to ensure that the checkbox is now marked as selected immediately following the click. This may involve observing the checkbox for a visual indicator such as a checkmark or a changed color.	Upon clicking, the "External?" checkbox should clearly show that it is selected, providing visual confirmation such as a checkmark or a different background color.
8	Ensure that attempting to submit the "Add External Referral" form without entering required information triggers an appropriate error message.	**Preconditions**: The user must be logged into the system and on the "Booking OT Schedule | New Patient" form. As well as The "External?" checkbox on the "Booking OT Schedule | New Patient" form must be selected. **Steps**: 1. **Open Add External Referral Form**: Click on the "+" icon to open the "Add External Referral" form. This step follows the selection of the "External?" checkbox. 2. **Attempt to Add without Data**: Click on the "Add" button on the "Add External Referral" form without entering any information in the form fields. 3. **Observe Error Message**: Check for an error message that should appear below the Referrer Name text field as a result of the previous action. 4. **Validate Error Message**: Verify that the error message reads "Referrer Name is required"	Error message should be : **Refferer Name is required.**
9	Ensure that filling out the "Add External Referral" form with data from an external source (Excel) and submitting triggers the correct success notification.	**Preconditions**: User is logged into the system and is on the "Booking OT Schedule | New Patient" form. The "External?" checkbox is already selected on this form. **Steps**: 1. **Open Add External Referral Form**: Click on the "+" icon adjacent to the "External?" checkbox to open the "Add External Referral" form. 2. **Fill Out Form Details**: Input all required details into the form fields, retrieving data from an Excel spreadsheet. Ensure all fields are accurately filled. 3. **Select All Checkboxes**: Check all available checkboxes on the form, which might include options for various terms or conditions related to the referral. 4. **Submit Form**: Click on the "Add" button to submit the form. 5. **Verify Success Notification**: After submission, observe and verify that a success notification appears. The expected message should be "Success update."	Upon clicking "Add", the form processes all entered data and if correctly completed, displays a "Success update" notification, confirming the successful submission.

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10	To ensure that the "Booking OT Schedule | New Patient" form can be closed programmatically using JavaScript, simulating a user action.	**Preconditions**: The user is logged into the system and currently on the "Booking OT Schedule | New Patient" form. **Steps**: 1. **Locate the Close Button**: Identify the HTML element for the close button, typically represented by an "X" or "Close" button on the form. 2. **Execute JavaScript to Close Form**: Use a JavaScript command to simulate clicking on the close button. 3. **Verify Form Closure**: Confirm that the form has been appropriately closed with no residual or error messages displayed.	The JavaScript command should effectively close the "Booking OT Schedule | New Patient" form, mimicking a user's click on the close button without any issues.
11	Ensure that using the keyboard shortcut "Alt + N" on the "Patient List" page within the Vaccination module opens the "Vaccination Patient Register" form, and validate the form's page name.	**Preconditions**: User must be logged into the system. User is navigated to Patient page of the vaccination module. **Steps**: 1. **Scroll to the Vaccination Module**: Locate the Vaccination module in the application's interface. 2. **Expand the Vaccination Module**: Click or select the option to expand the Vaccination module to view its sub-modules. 3. **Navigate to Patient List**: Click on the "Patient List" sub-module under the Vaccination module. 4. **Activate Keyboard Shortcut**: Press "Alt + N" on the keyboard while focused on the "Patient List" page to trigger the opening of the "Vaccination Patient Register" form. 5. **Validate Page Name**: Confirm that the opened form is indeed the "Vaccination Patient Register" by checking the title or heading of the page.	The "Vaccination Patient Register" form should open successfully in response to the "Alt + N" keyboard shortcut. The page name of the form should correctly display as "Vaccination Patient Register," confirming that the correct form has been accessed.
12	Confirm the functionality of radio button and dropdown selections on the 'Book Appointment' page, specifically validating and toggling the 'Month' radio button and verifying the selection of 'Follow-up Patient' from a dropdown menu.	**Preconditions**: The user must be logged into the system. **Steps**: 1. **Navigate to the Appointment Module**: Scroll to and locate the 'Appointment' module on the platform. 2. **Expand the Appointment Module**: Click on the expand icon of the 'Appointment' module to reveal its sub-modules and select the 'Book Appointment'. 3. **Access Book Appointment Page**: Click on the "New Patient" button which popups the 'Book Appointment' page. 4. **Select the 'Month' Radio Button**: On the 'Book Appointment' page, select the 'Month' radio button. 5. **Verify Selection of 'Month' Radio Button**: Confirm that the 'Month' radio button is indeed selected and visibly indicates this status. 6. **Deselect the 'Month' Radio Button**: After validation, click again on the 'Month' radio button to deselect it, ensuring the button can toggle between selected and deselected states. 7. **Select 'Follow-up Patient' from Dropdown**: Navigate to the 'Select Visit type' dropdown menu and select the 'Follow-up Patient' option. 8. **Verify Selection of 'Follow-up Patient'**: Confirm that 'Follow-up	The 'Month' radio button should be selectable and its selection should be visually clear. Upon re-clicking, it should be able to be deselected, confirming the toggle functionality. The 'Follow-up Patient' option should be selectable from the dropdown, and once selected, should remain as the displayed option, confirming the dropdown's functionality.

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		Patient' is selected from the dropdown and that this selection is visibly shown on the interface.	

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**
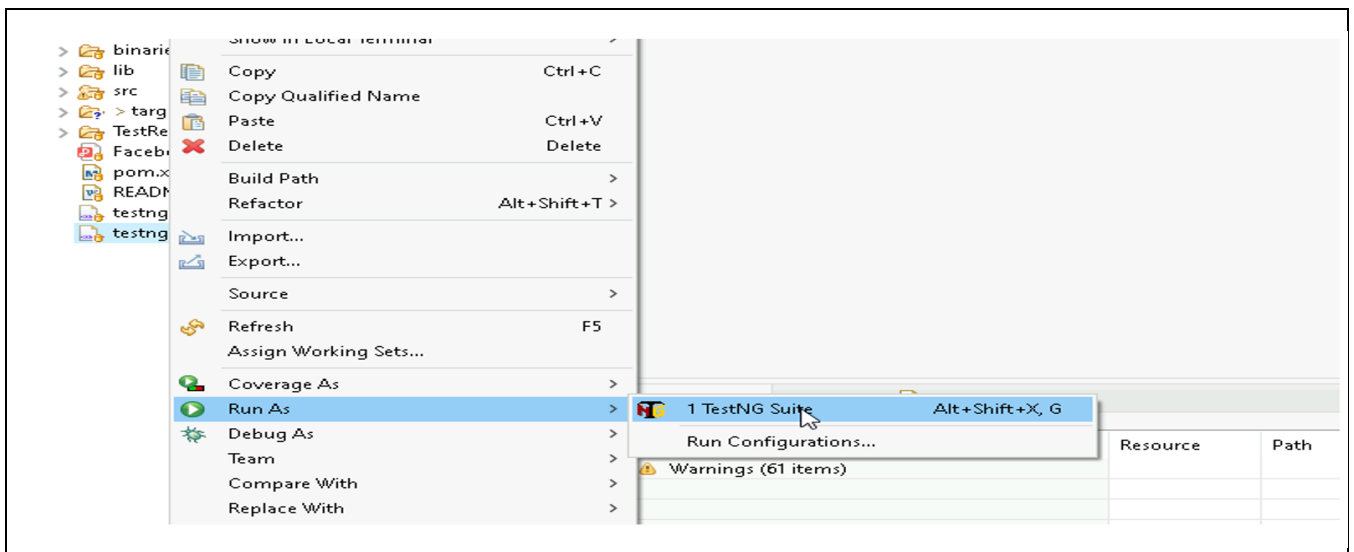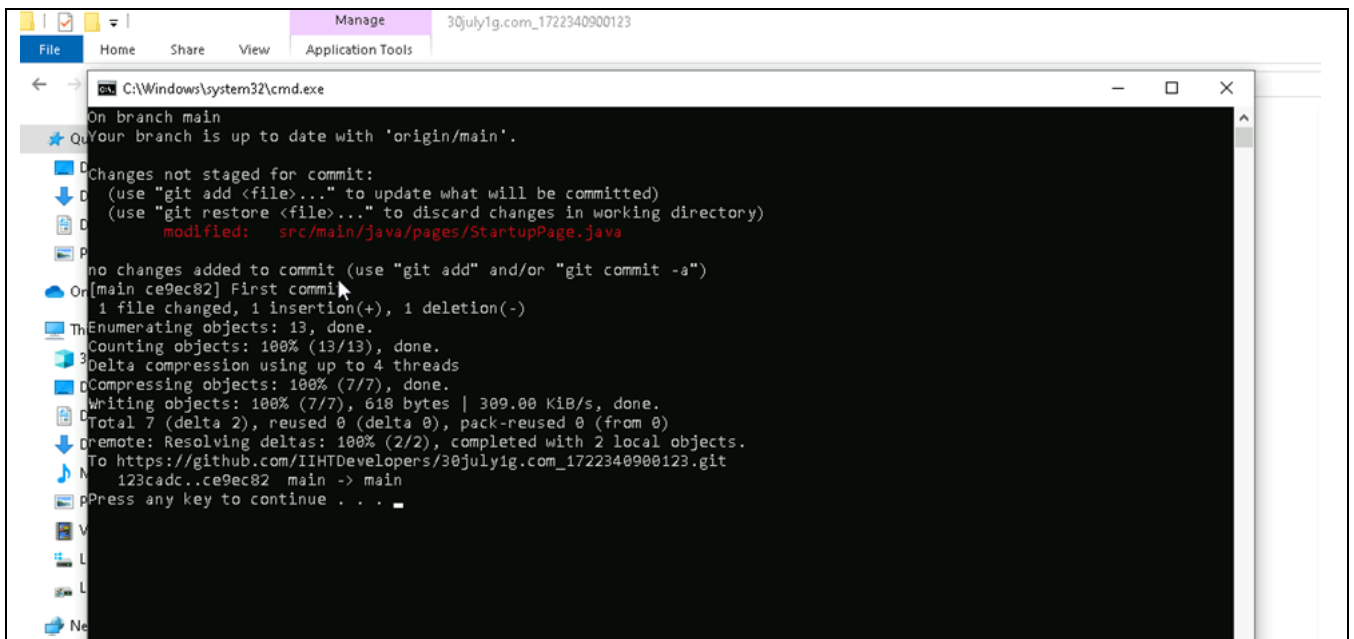
3. Before final submission, you are also required to push your code to GIT. Following are the steps to follow:
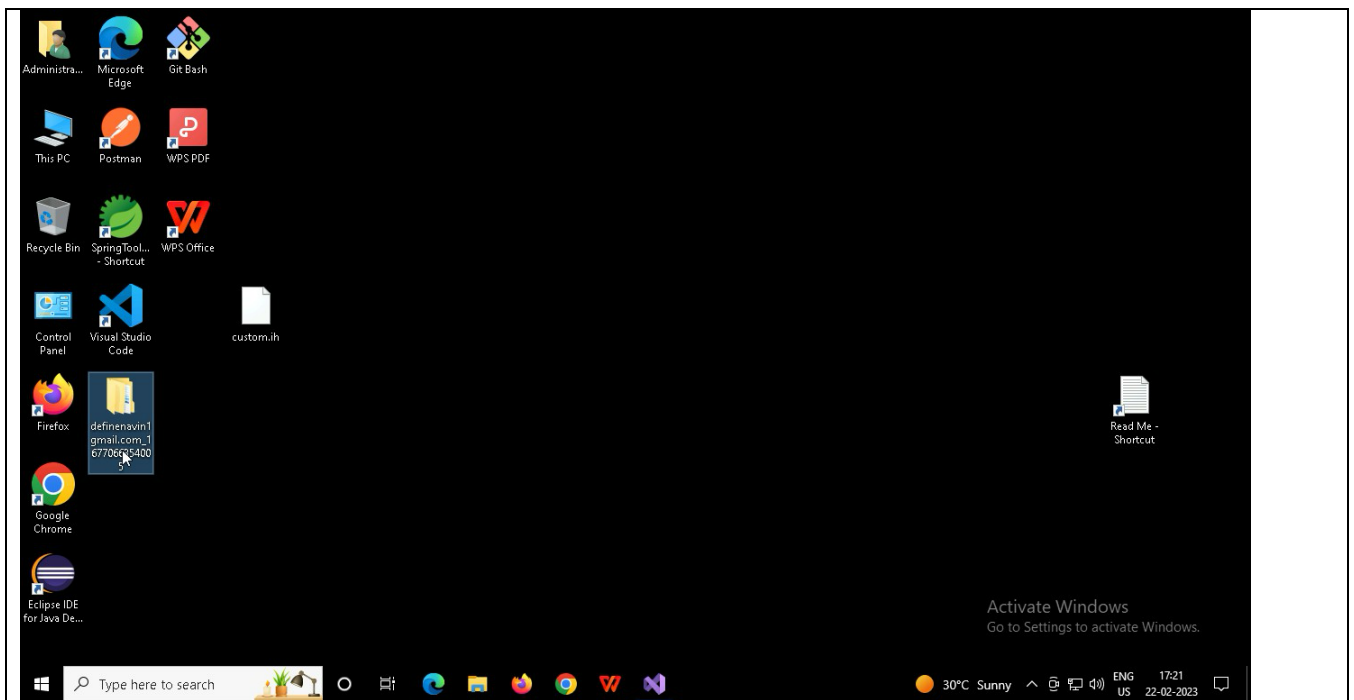
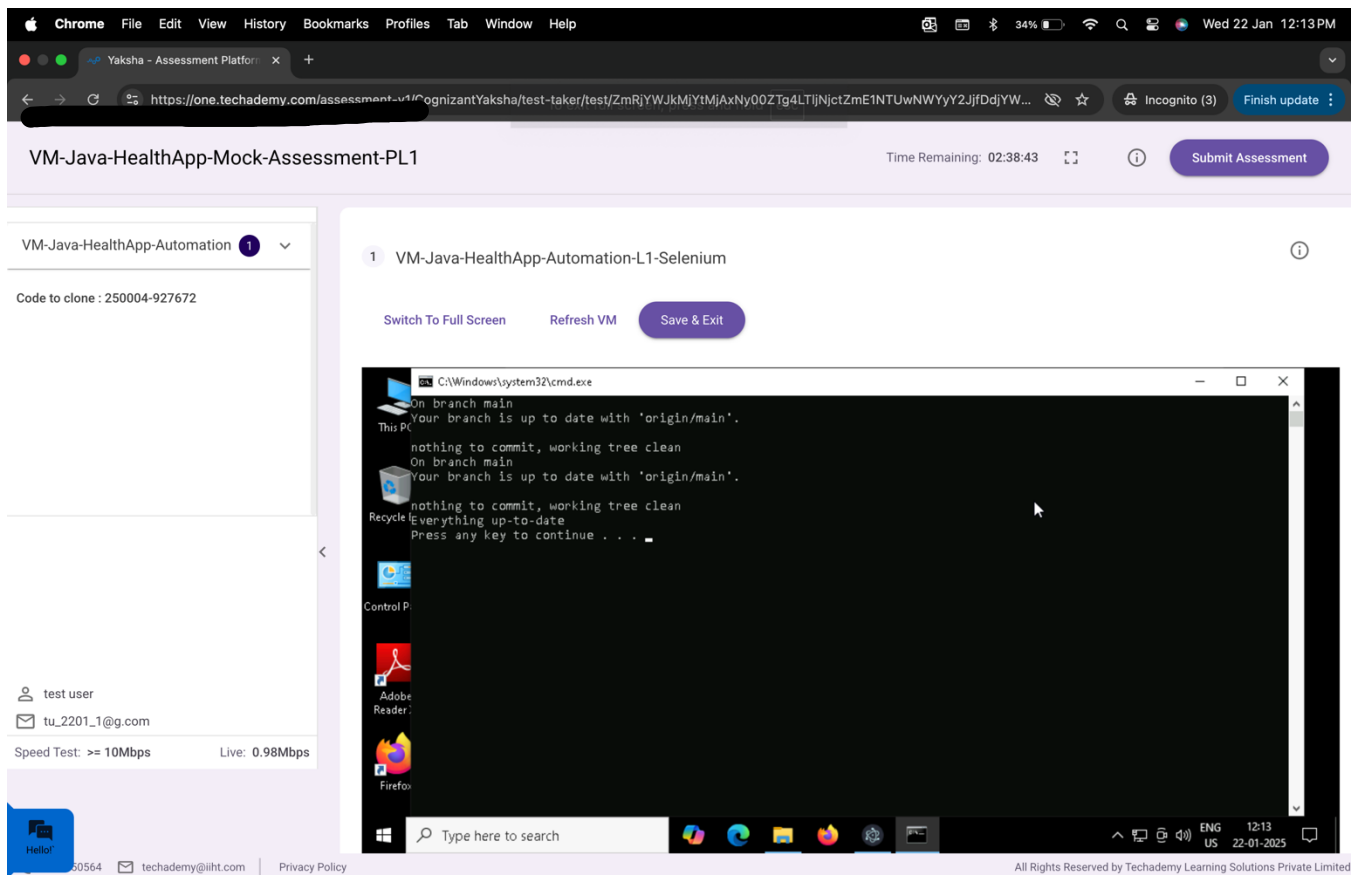In your project folder, you will find a batch file named git_commands
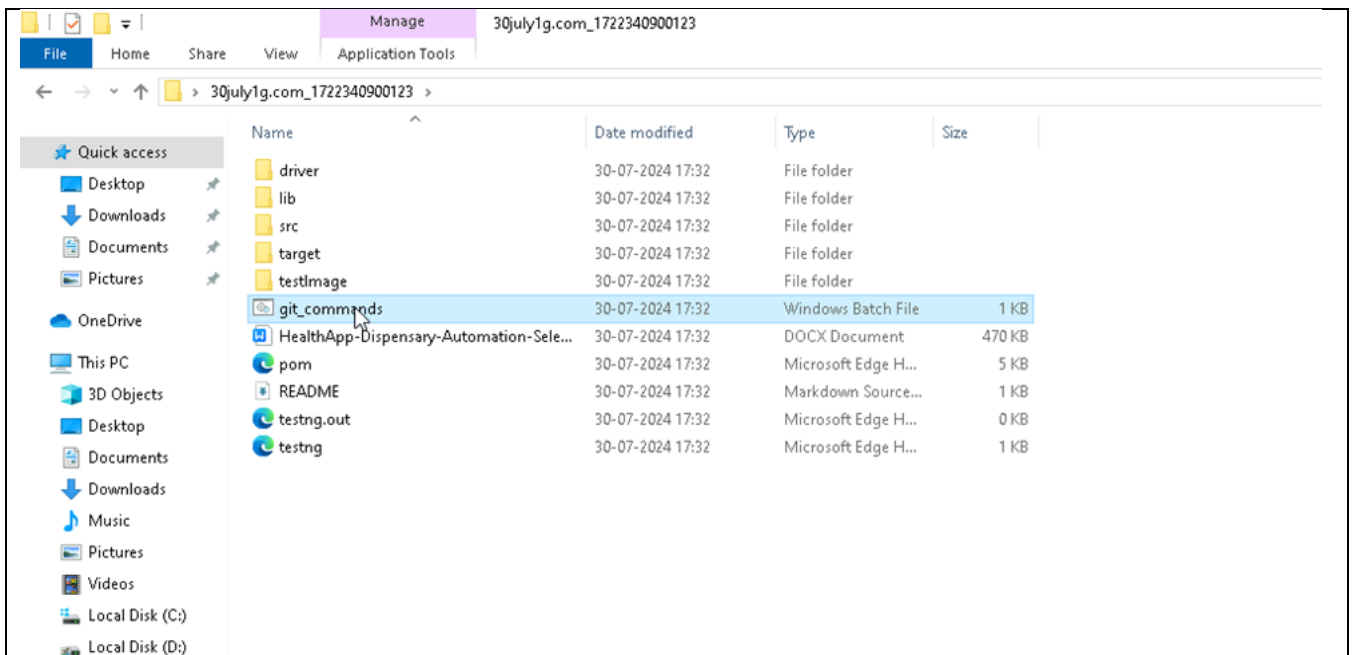
Double-click the batch file to run it. It will run the commands to push your code to GIT.

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.

===

All the Best