YAKSHA HEALTH APP WITH TYPESCRIPT AND PLAYWRIGHT

Mymedic automation using playwright

Usecase summary

Project Name: healthapp.yaksha app – Medical Record Management System
Use Case Summary: healthapp.yaksha is a healthcare application designed to manage Electronic Medical Records (EMR). it allows users to view, search, and manage patient records. It features functionality such as adding/editing patient records, filtering data by doctor and department, and exporting records. The primary use case is to automate the process of medical record management, ensuring efficient and reliable operations for healthcare providers.
Technology Stack:

- **Automation Tool:** Playwright (for testing)

Key Features:

- **Patient Record Management:** Add, edit, and delete patient records.
- **Filtering and Search:** Search medical records by date range, doctor, department, and more.
- **Export Functionality:** Export records for offline access.

Expected Outcomes:

- Automate key healthcare operations like patient record handling, filtering, and validation.
- Ensure the accurate retrieval and modification of medical records, enhancing operational efficiency.

Overview of the application

Pages/Features that are to be focused for the application

Please use the Application URL https://healthapp.yaksha.com

PROBLEM STATEMENT

Need to automate the following activities using playwright+typescript

You will be given a Json file to validate and search data with name testData.json present in Data folder.

Path	File	Description
src\data	testData.json	1. Contains data to read from json file.
src\ pages	• ADTPage • AppointmentPage • DashboardPage • DispensaryPage • LaboratoryPage • LoginPage	1. All core activities to be performed here. 2. The comments associated with each templated method here describe the expectation. 3. Declare any variable/object you

	● PatientPage ● ProcurementPage ● RadiologyPage ● UtilitiesPage	need to share data/status between different methods. 4. Do not modify the signature of methods declared here.

Here's a detailed table format for the test cases to be tested

Test Case No.	Test Case Name	Test Steps to be performed	Path & Method Used	Expected Result
	Verify Login with Valid Credentials	1.The application should read the data from testData.json file and fetch the user name and password. 2. It should call the method performLogin() 3. Perform login method will perform authentication with the username and password. 4. Verify admin name is visible on the home page. **It is must to implement this login functionality at first and then implement any other test case.**	**Reference path** \src\pages\LoginPage **methods** performLogin()	Successfully logs in with provided credentials. The user is logged in the admin page.
1	Verify Page Navigation and Load Time for Billing Counter	1. Use verifyBillingCounterLoadState() to check module load. 2. Open "Change Billing Counter" module using ChangeBillingCounter. 3. Set acceptable load time: 1000ms. 4. Verify counter presence; select the first counter if available. 5. Log a message if no counters are found.	**Reference path** \src\ pages\ **UtilitiesPage** **methods** verifyBillingCounterLoadState()	Navigates to "Change Billing Counter". Proceeds if counters are available and loaded within 1 second; logs a message otherwise.
2	Patient Search with Valid Data	1. Navigate to Appointment page. 2. Use verifypatientName() to verify the first patient is present or not. 3. Patient name must be fetched from testData.json file. 4. Validate that search results contain the searched name.	**Reference path** \src\ pages\ **AppointmentPage** **methods** verifypatientName()	Displays patient name in search results. Ensures short name matches the searched data.
3	Activate Counter in Dispensary	1. Use verifyActiveCounterMessageInDispensary() to: - Navigate to the Dispensary page. - Select a random counter if available. - Activate the counter and verify the activation message. - Navigate back to Counter tab. 2. Log counter selection and activation status.	**Reference path** \src\ pages\ **DispensaryPage** **methods** verifyActiveCounterMessageInDispensary()	Counter activation message matches the selected counter name.
4	Purchase Request List Load	1.Use verifyPurchaseRequestListElements() to check verify of elements: purchaseRequest,	**Reference path** \src\ pages\ **ProcurementPage**	All elements are present and visible on the procurement page.

Test Case No.	Test Case Name	Test Steps to be performed	Path & Method Used	Expected Result
		purchaseOrder,goodsArrivalNotification, quotations, settings, reports, favoriteButton, okButton, printButton, firstButton, previousButton, nextButton, lastButton.	**methods** verifyPurchaseRequestListElements()	
5	Verify Error Message While Adding New Lab Test	1. Navigate to Laboratory > Settings. 2. Select "Add New Lab Test". 3. Click "Add" without providing inputs. 4. Capture and verify the error message: "Lab Test Code Required".	**Reference path** \src\ pages\ **LaboratoryPage** **methods** verifyErrorMessage()	Error message: "Lab Test Code Required" is displayed.
6	Handle Alert on Radiology Module	1. Navigate to Radiology module and select "List Request" sub-module. 2. Apply filter using fromDate. 3. The application should read the data from json file for fromDate and toDate. 3. Click "Add Report" button. 4. A pop-up will open. Then click on X button to close the pop-up. 5. Now an alert will show up. You need to handle that. 6. Use handleAlert() to verify and accept the alert if the message is "**Changes will be discarded. Do you want to close anyway?**". 7. The application should check for matched data.	**Reference path** \src\ pages\ **RadiologyPage** **methods** performRadiologyRequestAndHandleAlert() handleAlert()	Alert dialog matches expected message and is accepted.
7	Verify Patient Search Functionality with Multiple Patients	1. Navigate to Patient Section. 2. Fetch all patient names as an array from testData.json file. 3. Use the search bar to find patients. 4. Compare retrieved names with expected names from json file. 5. Log success or failure for each match.	**Reference path** \src\ pages\ **PatientPage** **methods** searchAndVerifyPatients()	Matches all patient names from Json.
8	Error Handling and Logging in Purchase Request List	1. Navigate to Procurement module. 2. Apply invalid date filter in format as **00-00-0000**. 3. Click "OK". 4. Capture and verify the error message: "Date is not between range. Please enter again."	**Reference path** \src\ pages\ **ProcurementPage** **methods** verifyNoticeMessageAfterIncorrectFilters()	Triggers and verifies the error message for invalid date range. Logs success for match; failure for mismatch.
9	Modular Script for Patient Search	1. Navigate to the Appointment section. 2. Use searchPatientInAppointment() to execute the search. 3. Fetch data for patient search from testData.json file. 4. Validate the patient search result. 5. Navigate to the Patient section. 6. Use searchPatientInPatientPage() to execute the search.	**Reference path** \src\ pages\ **AppointmentPage** \src\ pages\ **PatientPage** \src\ pages\ **ADTPage** **methods**	You should be able to search patient search data.

Test Case No.	Test Case Name	Test Steps to be performed	Path & Method Used	Expected Result

		7. Fetch data for patient search from testData.json file.
		8. Validate the patient search result.
		9. Navigate to the ADT section.
		10. Use searchPatientInADT() to execute the search.
		11. Fetch data for patient search from testData.json file.
		12. Validate the patient search result.
			searchPatientInAppointment()
			searchPatientInPatientPage()
			searchPatientInADT()
			
			You can use highlightElement method present in CommonMethods file to highlight the element before performing any action on it. It takes locator as a parameter.	

10	Verify 'Morning Counter' selection and report generation for the specified date	1. Navigate to dispensary module. 2. Click on Reports. 3. Click on User Collection report to navigate to the respective report section. 4. Read the fromDate from testData.json file and enter in From Date input field. 5. Select morning counter from dropdrown. 6. Click on Show Report button to generate the report. 7. Verify the generated report correctly displays the morning counter in counter column.	**Reference path** \src\ pages\ **DispensaryPage** **methods** generateMorningCounterReport()	Verify the generated report correctly displays the morning counter in counter column.
11	Verify '**New Visit**' tab opens with Alt + N keyboard shortcut in Appointment Page	1. Navigate to the Appointment page. 2. Click on “New Visit” tab. 3. Press the keyboard shortcut “Alt + N”. 4. Verify that new visit page is displayed.	**Reference path** \src\ pages\ **AppointmentPage** **methods** openNewVisitPageThroughKeyboardButton()	Verify that the New Visit page is displayed.
12	Verify the tooltip text on hover of Star icon in Laboratory	1. Navigate to Laboratory module. 2. Hovers over star icon and waits for tooltip to appear. 3. Verifies the visibility of the star icon and retrieves the tooltip text.	**Reference path** \src\ pages\ **LaboratoryPage** **methods** verifyStarTooltip()	Verifies the visibility of the star icon and retrieves the tooltip text. Result should be “Remember this date”.
13	Add and Verify New Imaging Type in Radiology	1. Navigates to the Settings module and clicks on the Radiology submodule. 2. Clicks on the "Add Imaging Type" button to open the modal for adding a new imaging type. 3. Fills the "Imaging Item Name" field with a random name (Test-{random4digitnumber}) and clicks "Add". 4. Verifies that the newly added imaging type appears in the list of imaging types.	**Reference path** \src\ pages\ **SettingsPage** **methods** addAndVerifyNewImagingType()	Verifies that the newly added imaging type appears in the list of imaging types.
14	Web Element Handling for Dropdowns in Purchase Request	1. Navigate to Purchase Request List. 2. Fetch the fromDate and toDate from testData.json file. 3. Apply date range filter. 4. Retrieve dates from "Requested Date" column and validate each date within range.	**Reference path** \src\ pages\ **ProcurementPage** **methods**	It should be able to retrieve dates are within range.

Test Case No.	Test Case Name	Test Steps to be performed	Path & Method Used	Expected Result
		5. The data range will be called from the common methods "data range" 6. Wait for success or failure.	verifyRequestedDateColumnDateWithinRange()	
15	Login with Invalid Credentials	1. Reset state by logging out if already logged in. 2. Use performLoginWithInvalidCredentials to check the invalid user credentials. 3. Invalid credentials should be read from testData.json file. 4. Capture and verify error message: "Invalid User".	**Reference path** \src\ pages\ **LoginPage** **methods** performLoginWithInvalidCredentials()	Displays error message: "Invalid User". Logs success if message matches; logs failure otherwise.

Learners will gain experience in building strongly-typed applications using React.js and managing data flow with **TypeScript**. They'll learn how to define interfaces, use types for error prevention, and improve code maintainability.

With **Playwright**, learners will learn to write and execute automated tests for the https://healthapp.yaksha.com

app. Key skills include:

- **Browser Automation**: Interacting with web elements and testing multiple browsers.
- **Assertions & Validations**: Ensuring app behavior meets expected results.
- **End-to-End Testing**: Automating real user interactions and validating overall app functionality.

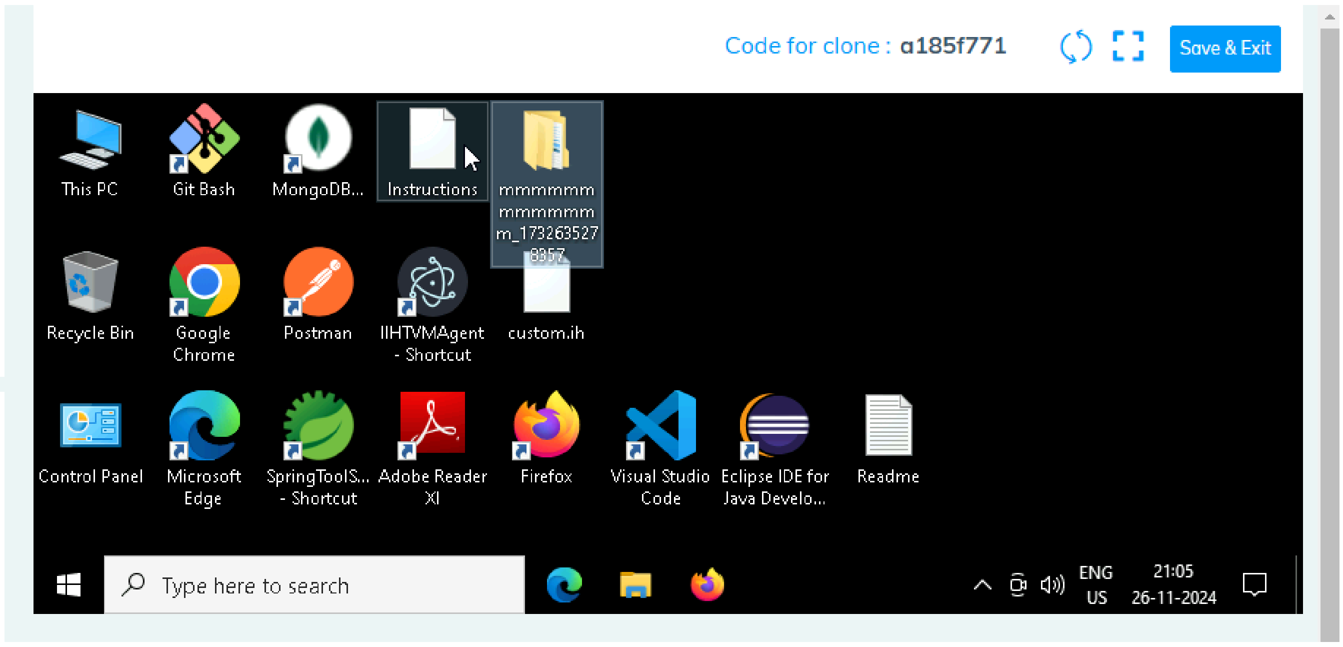
IMPLEMENTATION/FUNCTIONAL REQUIREMENT

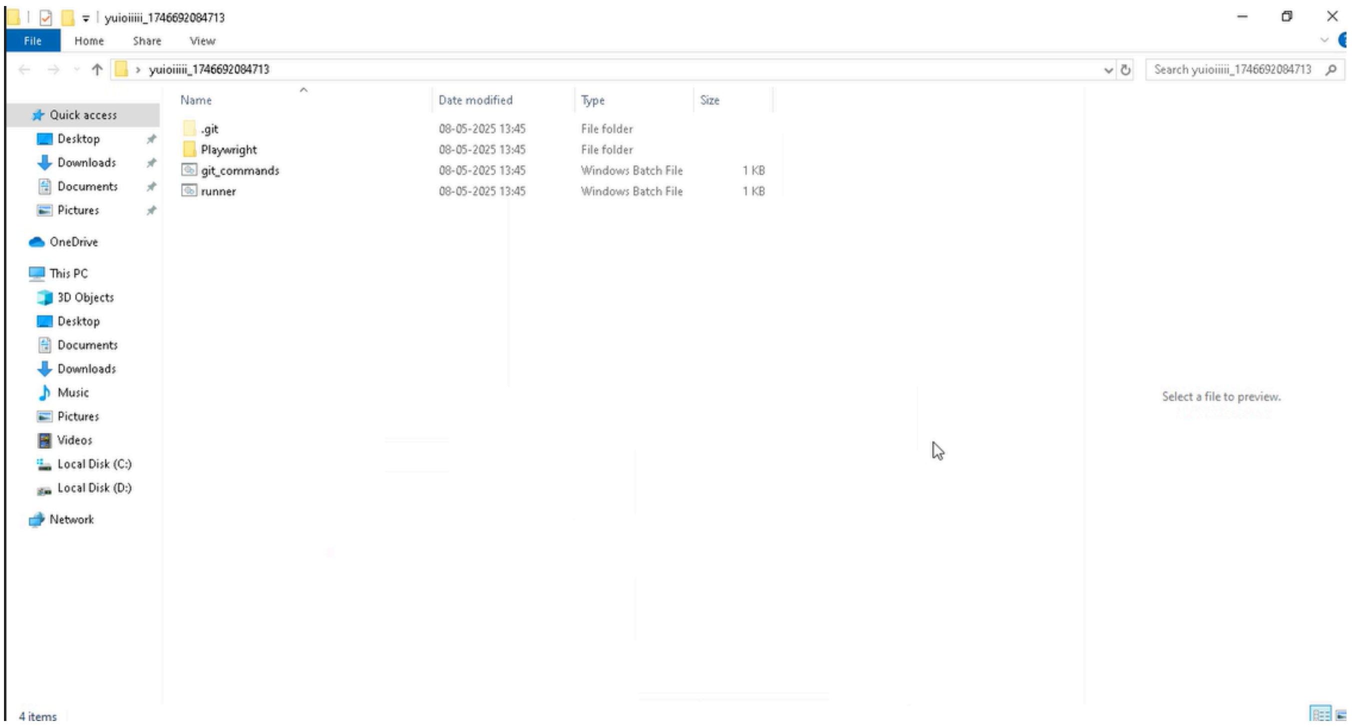
1.1 CODE QUALITY/OPTIMIZATIONS

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

Execution Steps:
Steps for Execution:

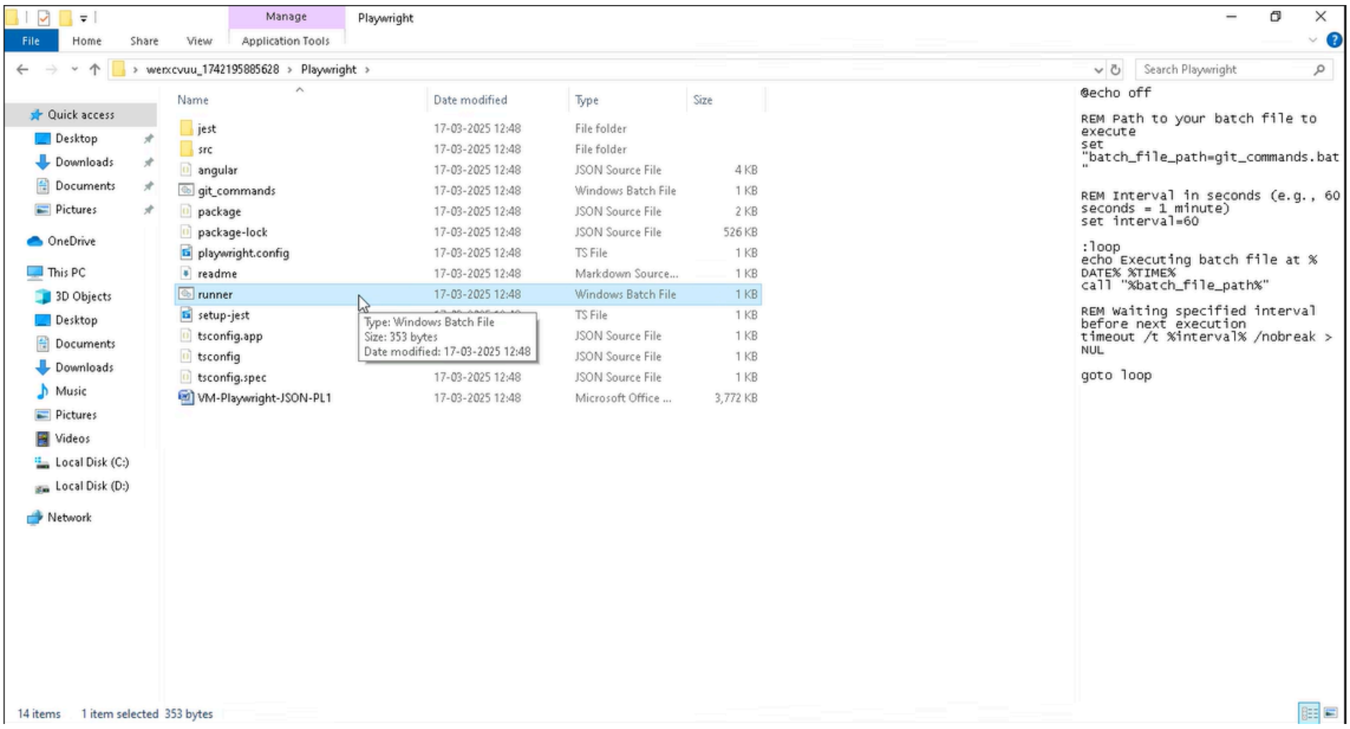
1. **Please open the folder created on desktop with the email name you used to login.**





Name	Date modified	Type	Size
.git	08-05-2025 13:45	File folder	
Playwright	08-05-2025 13:45	File folder	
git_commands	08-05-2025 13:45	Windows Batch File	1 KB
runner	08-05-2025 13:45	Windows Batch File	1 KB

2. **Go into the Playwright folder and execute this “runner” file. This will keep pushing the code at regular intervals.**

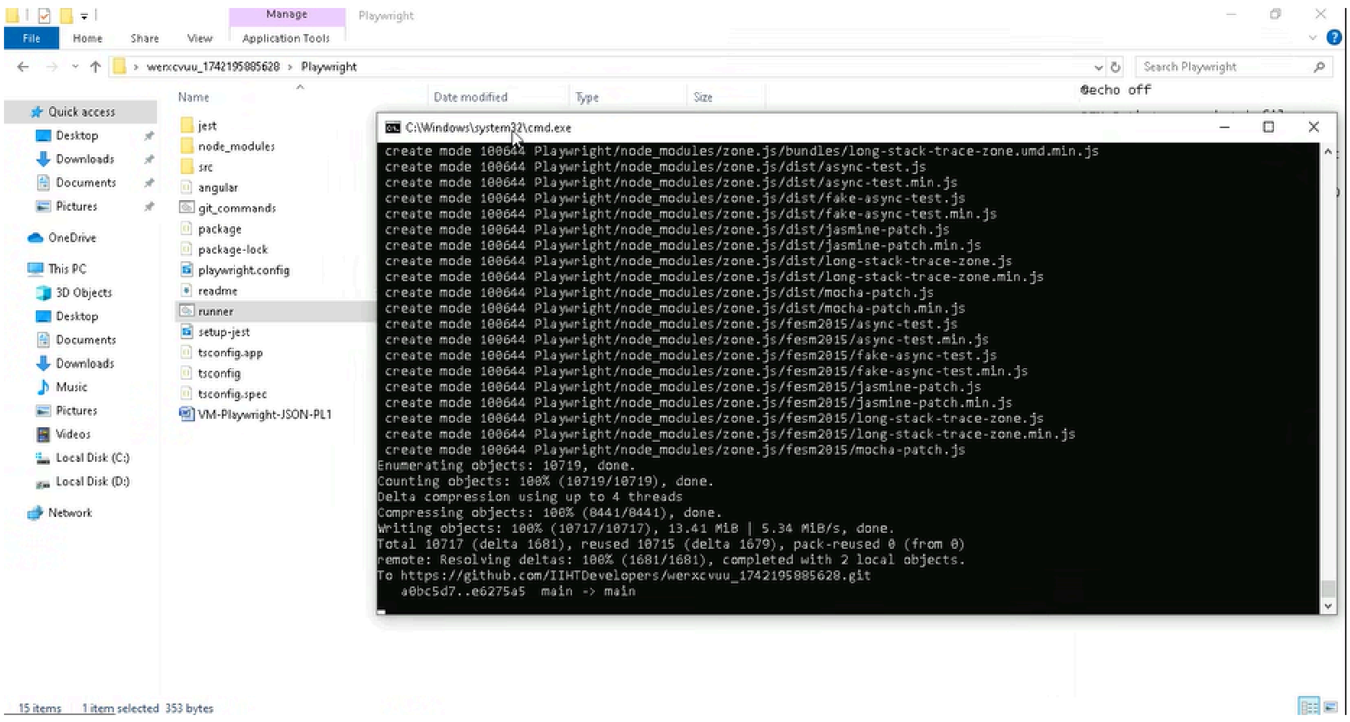

werxcvuu_1742195885628 › Playwright ›

Name	Date modified	Type	Size
jest	17-03-2025 12:48	File folder	
src	17-03-2025 12:48	File folder	
angular	17-03-2025 12:48	JSON Source File	4 KB
git_commands	17-03-2025 12:48	Windows Batch File	1 KB
package	17-03-2025 12:48	JSON Source File	2 KB
package-lock	17-03-2025 12:48	JSON Source File	526 KB
playwright.config	17-03-2025 12:48	TS File	1 KB
readme	17-03-2025 12:48	Markdown Source...	1 KB
runner	17-03-2025 12:48	Windows Batch File	1 KB
setup-jest		TS File	1 KB
tsconfig.app		JSON Source File	1 KB
tsconfig		JSON Source File	1 KB
tsconfig.spec	17-03-2025 12:48	JSON Source File	1 KB
VM-Playwright-JSON-PL1	17-03-2025 12:48	Microsoft Office ...	3,772 KB

Type: Windows Batch File
Size: 353 bytes
Date modified: 17-03-2025 12:48

```
@echo off

REM Path to your batch file to
execute
set
"batch_file_path=git_commands.bat
"

REM Interval in seconds (e.g., 60
seconds = 1 minute)
set interval=60

:loop
echo Executing batch file at %
DATE% %TIME%
call "%batch_file_path%"

REM Waiting specified interval
before next execution
timeout /t %interval% /nobreak >
NUL

goto loop
```

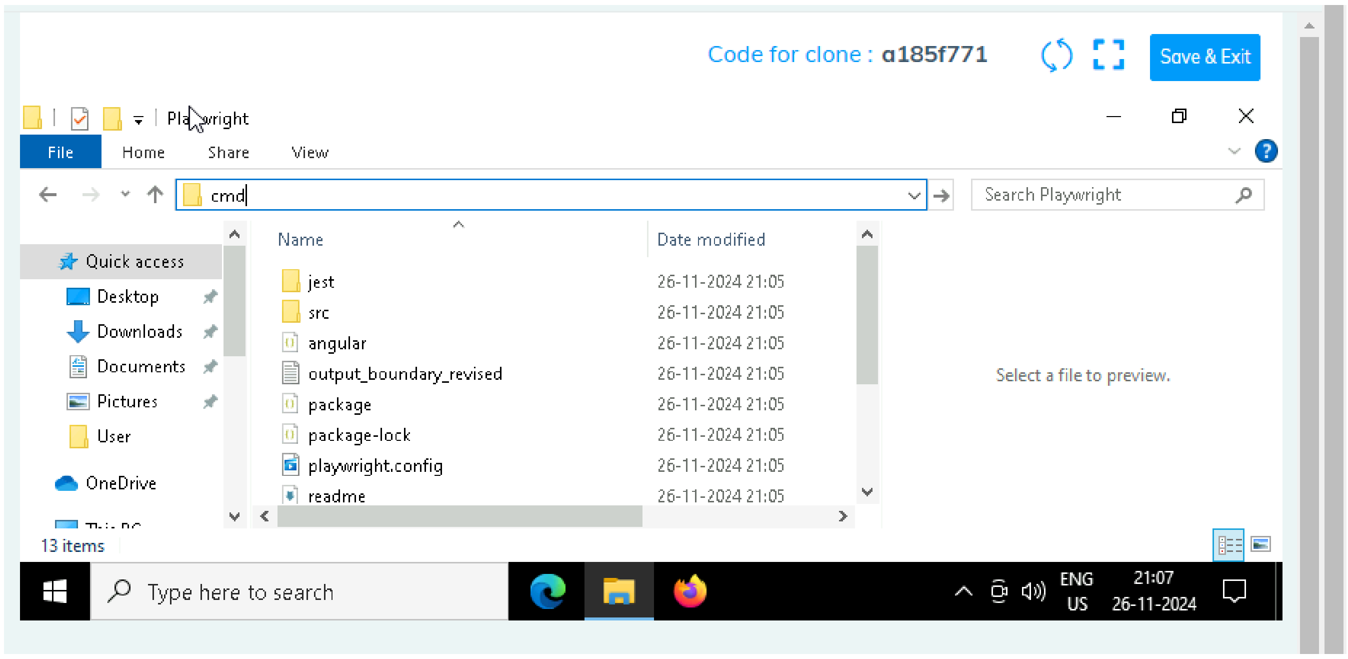
14 items   1 item selected 353 bytes



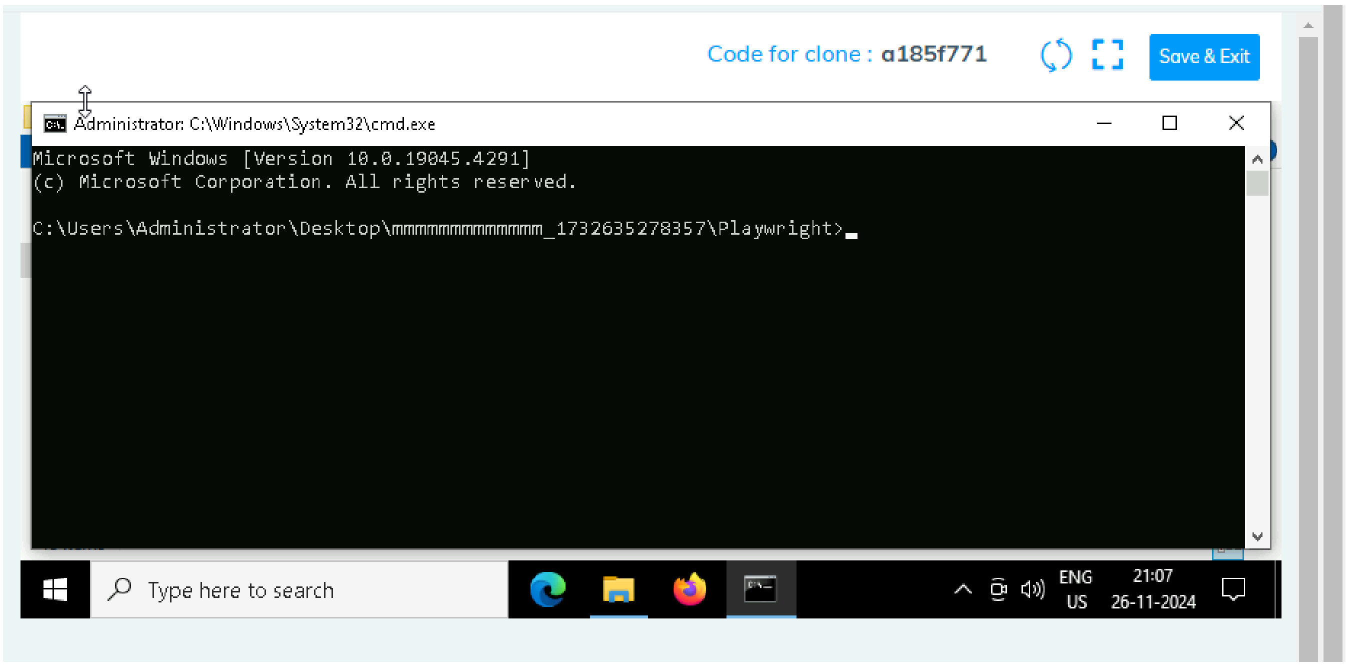
```
 create mode 100644 Playwright/node_modules/zone.js/bundles/long-stack-trace-zone.umd.min.js
 create mode 100644 Playwright/node_modules/zone.js/dist/async-test.js
 create mode 100644 Playwright/node_modules/zone.js/dist/async-test.min.js
 create mode 100644 Playwright/node_modules/zone.js/dist/fake-async-test.js
 create mode 100644 Playwright/node_modules/zone.js/dist/fake-async-test.min.js
 create mode 100644 Playwright/node_modules/zone.js/dist/jasmine-patch.js
 create mode 100644 Playwright/node_modules/zone.js/dist/jasmine-patch.min.js
 create mode 100644 Playwright/node_modules/zone.js/dist/long-stack-trace-zone.js
 create mode 100644 Playwright/node_modules/zone.js/dist/long-stack-trace-zone.min.js
 create mode 100644 Playwright/node_modules/zone.js/dist/mocha-patch.js
 create mode 100644 Playwright/node_modules/zone.js/dist/mocha-patch.min.js
 create mode 100644 Playwright/node_modules/zone.js/fesm2015/async-test.js
 create mode 100644 Playwright/node_modules/zone.js/fesm2015/async-test.min.js
 create mode 100644 Playwright/node_modules/zone.js/fesm2015/fake-async-test.js
 create mode 100644 Playwright/node_modules/zone.js/fesm2015/fake-async-test.min.js
 create mode 100644 Playwright/node_modules/zone.js/fesm2015/jasmine-patch.js
 create mode 100644 Playwright/node_modules/zone.js/fesm2015/jasmine-patch.min.js
 create mode 100644 Playwright/node_modules/zone.js/fesm2015/long-stack-trace-zone.js
 create mode 100644 Playwright/node_modules/zone.js/fesm2015/long-stack-trace-zone.min.js
 create mode 100644 Playwright/node_modules/zone.js/fesm2015/mocha-patch.js
Enumerating objects: 10719, done.
Counting objects: 100% (10719/10719), done.
Delta compression using up to 4 threads
Compressing objects: 100% (8441/8441), done.
Writing objects: 100% (10717/10717), 13.41 MiB | 5.34 MiB/s, done.
Total 10717 (delta 1681), reused 10715 (delta 1679), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1681/1681), completed with 2 local objects.
To https://github.com/IIHTDevelopers/werxcvuu_1742195885628.git
   a0bc5d7..e6275a5  main -> main
```

3. **Open command prompt with it's location and use below command:**

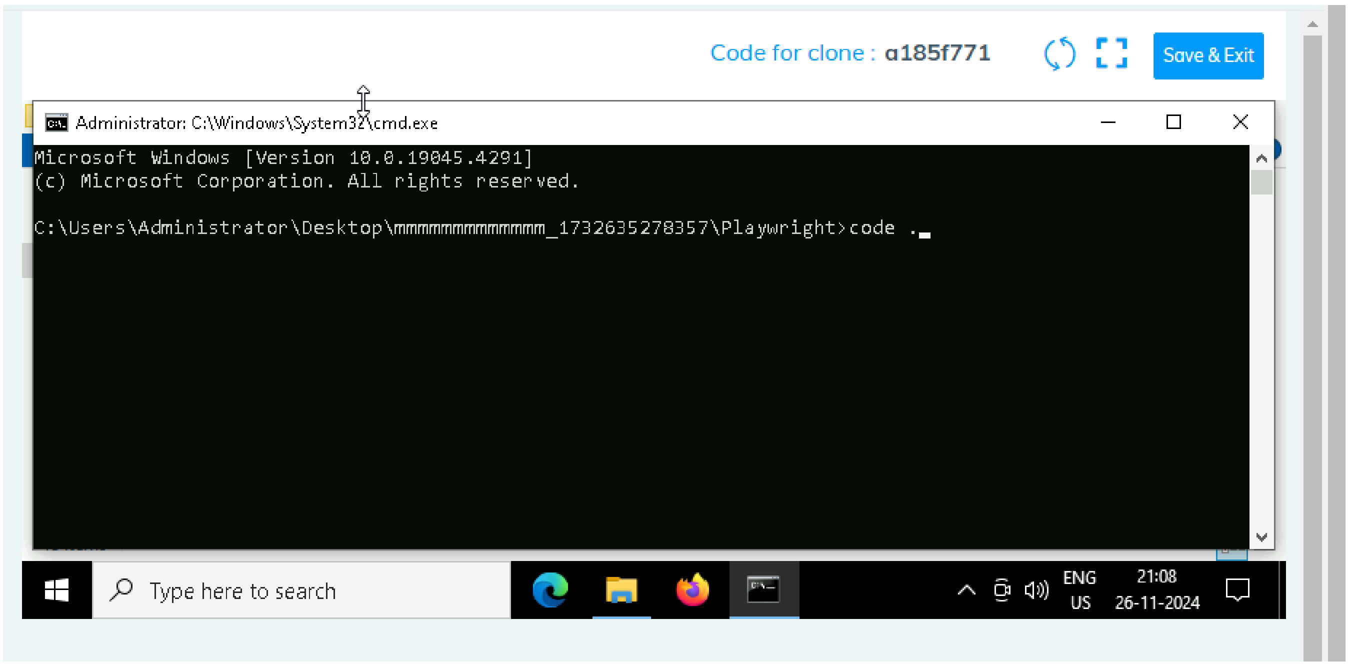
   code .



```
jest                        26-11-2024 21:05
src                         26-11-2024 21:05
angular                     26-11-2024 21:05
output_boundary_revised     26-11-2024 21:05
package                     26-11-2024 21:05
package-lock                26-11-2024 21:05
playwright.config           26-11-2024 21:05
readme                      26-11-2024 21:05
```

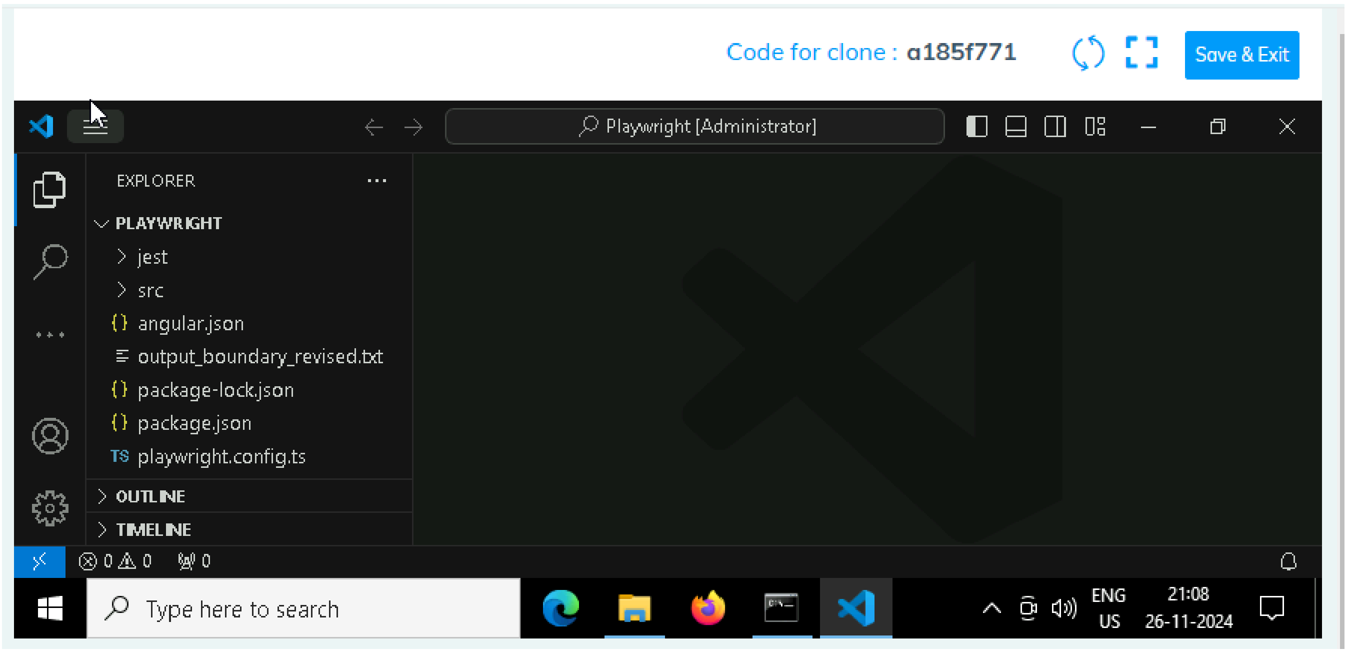

Code for clone : a185f771
Save & Exit
Administrator: C:\Windows\System32\cmd.exe
Type here to search
ENG
US
21:07
26-11-2024

```
Microsoft Windows [Version 10.0.19045.4291]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Administrator\Desktop\mmmmmmmmmmmmm_1732635278357\Playwright>
```


Code for clone : a185f771
Save & Exit
Administrator: C:\Windows\System32\cmd.exe
Type here to search
ENG
US
21:08
26-11-2024

```
Microsoft Windows [Version 10.0.19045.4291]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Administrator\Desktop\mmmmmmmmmmmmm_1732635278357\Playwright>code .
```

4. Once VsCode is open. Please open the terminal in Playwright folder:



5. **Install all dependencies in the Playwright folder path using:**

   npm install

6. **Install playwright in the Playwright folder path:**

   npx playwright install

7. **Run the Tests in the Playwright folder path**:

   npx playwright test ./src/tests/PL1_testcases/yaksha.spec.ts