

# YAKSHA HEALTH APP WITH JAVASCRIPT AND CYPRESS

OrangeHRM automation using

## Usecase summary

**Project Name:**opensource-demo.orangehrmlive.com app – HR management system.

**Use Case Summary:** opensource-demo.orangehrmlive.com is designed to manage Employee record.

Records (HRMS). It allows users to view, search, and manage employee records. It features functionality such as adding/editing employee details, filtering data by department and role, and exporting records. The primary use case is to automate the process of employee data management, ensuring efficient and reliable operations for human resources teams in organizations

**Technology Stack:**

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

**Key Features:**

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

**Expected Outcomes:**

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

**Overview of the application**

**Pages/Features that are to be focused for the application**

Please use the Application URL <https://opensource-demo.orangehrmlive.com>

## PROBLEM STATEMENT

Need to automate the following activities using cypress+javascript

**You will be given few Json files in fixtures folder like doctor.json, login.json, maternity.json, medicalRecord.json, patientName.json, pharmacy.json, radiology.json, settings.json and subStore.json.**

Path	File	Description
\fixtures	USerDetailForm.Json ImgaeGreaterThan1Mb.jpeg LoginData.json skyImage.jpg	1. Contains data to read from json file.

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PageObjects\Pages	<ul style="list-style-type: none"> <li>• AdminPage</li> <li>• BuzzPage</li> <li>• HomePage</li> <li>• LeavePage</li> <li>• LoginProfile</li> <li>• ProfilePage</li> <li>• MyInfoPage</li> <li>• PimPage</li> </ul>	<ol style="list-style-type: none"> <li>1. All core activities to be performed here.</li> <li>2. The comments associated with each templated method here describe the expectation.</li> <li>3. Declare any variable/object you need to share data/status between different methods.</li> </ol> <p>Do not modify the signature of methods declared here.</p>
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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
1	Verify "Delete Post" Functionality	<ol style="list-style-type: none"> <li>1. Login using valid credentials</li> <li>2. Click on "Buzz" tab in sidebar</li> <li>3. Click on Delete button on any post in the List</li> <li>4. Click on "Yes delete" button in popup.</li> </ol> <p><b>Images must exist in Cypress /fixtures User must be logged in.</b></p>	<p><b>Located in</b> PageObjects/Pages/BuzzPage.js</p> <p><b>Methods:</b> deletePostCheck(), verifyBuzzPostDelete()</p>	Post should get Deleted
2	Verify "Get" help button is functional	<ol style="list-style-type: none"> <li>1. Login using valid credentials</li> <li>2. click on "Questions mark icon" button.</li> </ol> <p><b>Images must exist in Cypress /fixtures User must be logged in.</b></p>	<p><b>Located in</b> PageObjects/Pages/HomePage.js,</p> <p><b>Methods:</b> tooltipFunctional(), verifyHelpButtonOpensNewTab()</p>	Verify "Get" help button is functional

Test Case No.	Test Case Name	Test Steps to be performed	Path & Method Used	Expected Result
3	Verify List of Reports	<ol style="list-style-type: none"> <li>1. Login using valid credentials</li> <li>2. Click on "PIM" in the sidebar</li> <li>3. Click on the Employee List tab</li> <li>4. check for presence of a list</li> </ol> <p><b>User must be logged in with Admin access.</b></p>	<p><b>Reference path</b></p> <p>PageObjects/Pages/PimPage.js:</p> <p><b>Methods</b></p> <p>employeeListCheck(), verifyEmpListPresense()</p>	A list of employees should appear.
4	Verify Employee List Search functionality	<ol style="list-style-type: none"> <li>1. Login using valid credentials</li> <li>2. Click on "PIM" in the sidebar</li> <li>3. Click on the Employee List tab</li> <li>4. Enter the Username to search</li> <li>5. Click the "Search" button</li> </ol> <p><b>User must be logged in and on the home page</b></p>	<p><b>Reference path</b></p> <p>PageObjects/Pages/PimPage.js</p> <p><b>Methods</b></p> <p>searchEmployeeById() verifyEmpListSearch()</p>	Admin record is saved successfully with toast confirmation
5	Verify Primary Colour of corporate branding could be changed	<ol style="list-style-type: none"> <li>1. Login using valid credentials</li> <li>2. Click on "admin" in the side bar</li> <li>3. Click on the "Corporate branding" tab</li> <li>4. Click the colour circle after primary colour label</li> <li>5. Enter the hexacode of the colour</li> <li>6. Click on Publish button</li> </ol> <p><b>User must be logged in with Admin privileges.</b></p>	<p><b>Reference path</b></p> <p>PageObjects/Pages/AdminPage.js</p> <p><b>Methods</b></p> <p>changePrimaryColour verifyColourChanged()</p>	Primary colour should set to desired one

Test Case No.	Test Case Name	Test Steps to be performed	Path & Method Used	Expected Result
6	Verify Client Logo could not be uploaded above 1 mb	<ol style="list-style-type: none"> <li>1. Login using valid credentials</li> <li>2. Click on "admin" in the sidebar</li> <li>3. Click on the "Corporate branding" tab</li> <li>4. Click the Client Logo Browse button</li> <li>5. Select the desired file from device and click open button</li> </ol> <p><b>Images must exist in cypress/fixtures</b> <b>User must be logged in</b></p>	<p><b>Located in</b> PageObjects/Pages/AdminPage.js:</p> <p><b>Methods :</b></p> <pre>uploadImageGt1Mb('ImageGreaterThan1Mb.jpg'), verifyIncorrecrDimError();</pre>	Incorrect Dimension Error should Display
7	Verify Language change Functionality	<ol style="list-style-type: none"> <li>1. Login using valid credentials</li> <li>2. Click on "admin" in the sidebar</li> <li>3. Click on the "Configuration" tab.</li> <li>4. Click the Localization button</li> <li>5. Select the desired Language from the dropdown (Chinese)</li> <li>6. Click on Save button</li> </ol> <p><b>At least one user should exist in the user list</b> <b>User must be logged in with Admin privileges.</b></p>	<p><b>Reference path</b> PageObjects/Pages/AdminPage.js:</p> <p><b>Methods:</b></p> <pre>languageChangeFunctionality() verifyLanguageChangeFunctionality( );</pre>	Successfully Updated alert should be displayed
8	Verify Required Field Error in Leaves Tab displays when required field is empty	<ol style="list-style-type: none"> <li>1. Login using valid credentials</li> <li>2. Click on "leave" in the sidebar</li> <li>3. Click on the "assign Leave" button</li> <li>4. Click on "Assign" button without filing any details in any field</li> </ol> <p><b>User must be logged in with Admin access At least two records with different usernames must exist</b></p>	<p><b>Reference path</b> PageObjects/Pages/LeavePage.js:</p> <p><b>Methods</b></p> <pre>leaveAssignEmptyValueError() varifyAssignEmptyFieldError()</pre>	"Required" error should be displayed

9	Verify My info Download Functionality	<ol style="list-style-type: none"> <li>1. Login using valid credentials</li> <li>2. Click on "My info" in the sidebar</li> <li>3. Scroll to the bottom</li> <li>4. Click on "Download icon" button</li> </ol> <p><b>User must be logged in and on the Home page</b></p>	<p><b>Reference path</b></p> <p>PageObjects/Pages/MyInfoPage.js</p> <p><b>Methods</b></p> <p>myInfoPageDownloadFunctionality() verifyMyInfoPageDownloadFunctionality()</p>	File should get Downloaded
10	Verify User details could be Updated	<ol style="list-style-type: none"> <li>1. Login using valid credentials</li> <li>2. Click on "My info" in the sidebar</li> <li>3. Enter the user name ,middle name, last name in the form</li> <li>4. Click the save button&gt;Refresh</li> </ol> <p><b>User must be logged in and on the Home page</b></p>	<p><b>Reference path</b></p> <p>PageObjects/Pages/ProfilePage.js</p> <p><b>Methods</b></p> <p>userProfileUpdateFunction() verifyUserProfileDetail()</p>	User name should get Updated successfully

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

With **Cypress**, learners will learn to write and execute automated tests for the <https://opensource-demo.orangehrmlive.com> app.

Key skills include:

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

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## IMPLEMENTATION/FUNCTIONAL REQUIREMENT

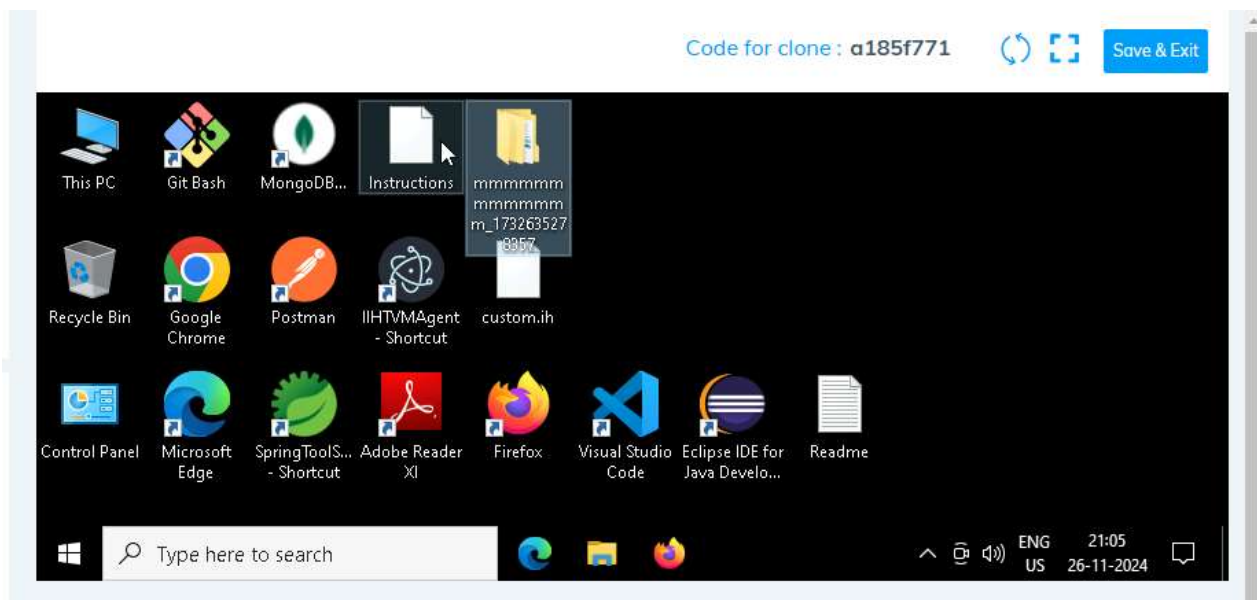
### 1.1 CODE QUALITY/OPTIMIZATIONS

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

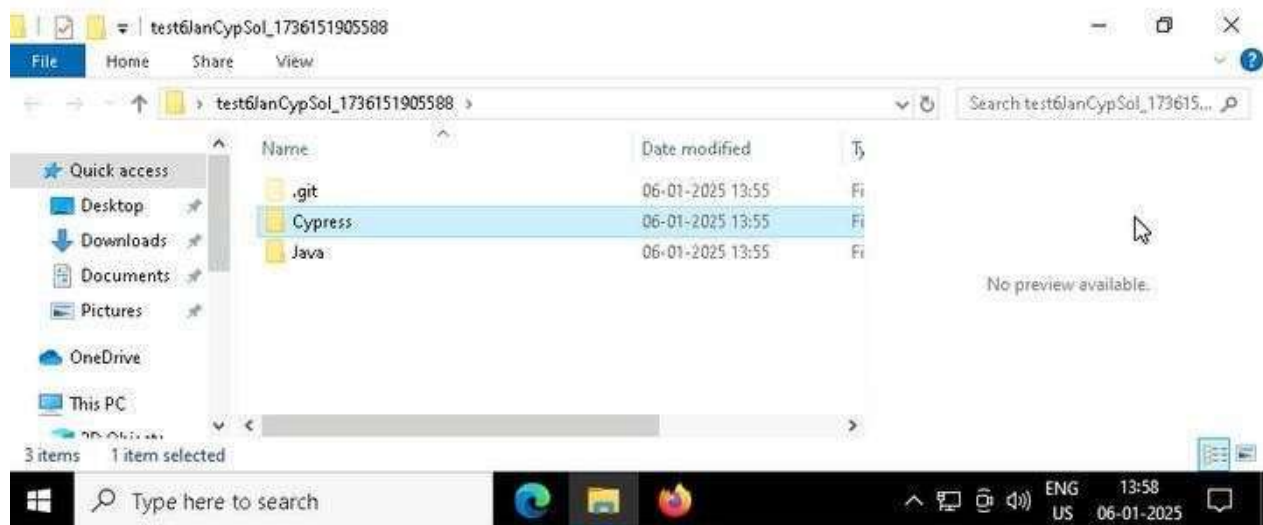
**Execution Steps:**

**Steps for Execution:**

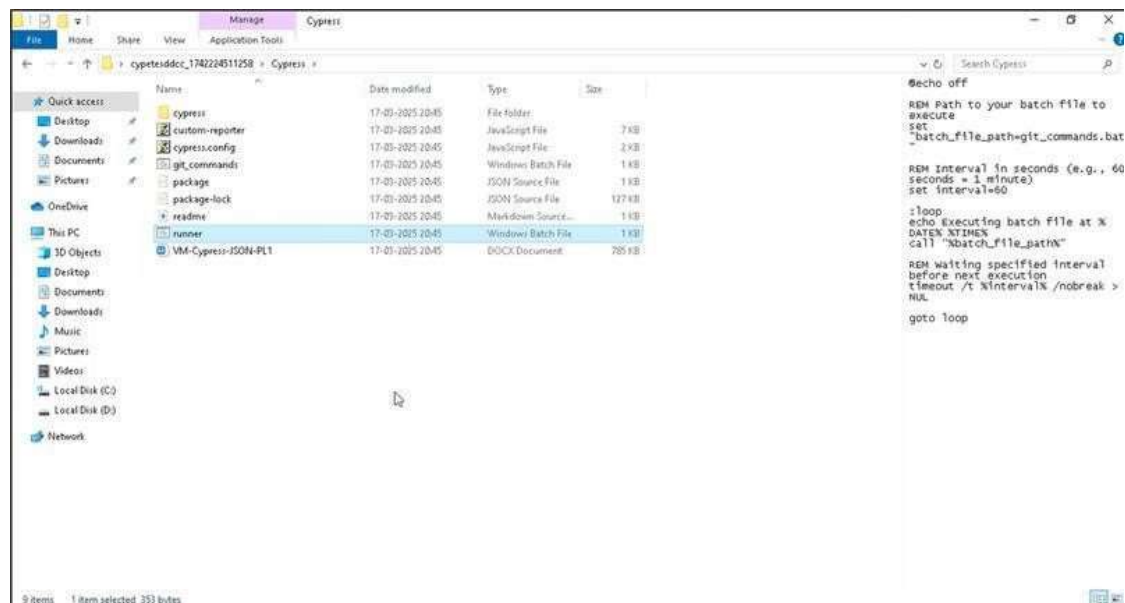
1. Please open the folder created on desktop with the email name you used to login.



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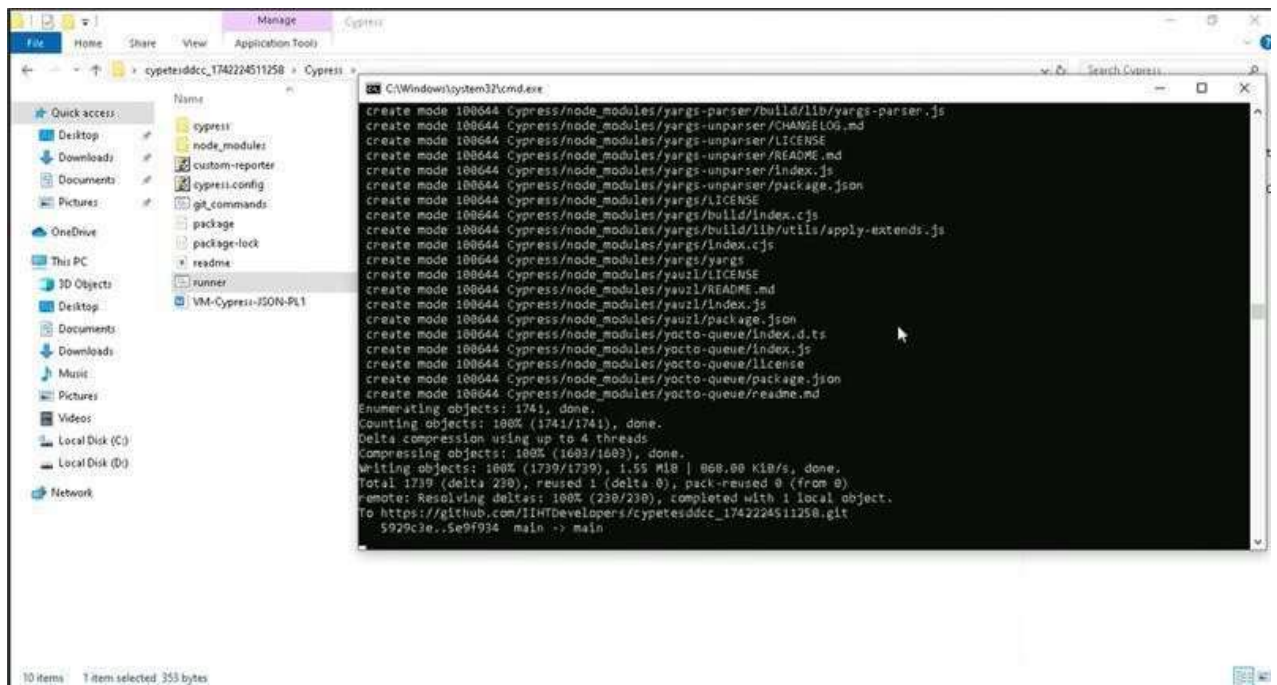


- Go into the Cypress folder and execute this “runner” file. This will keep pushing the code at regular intervals.

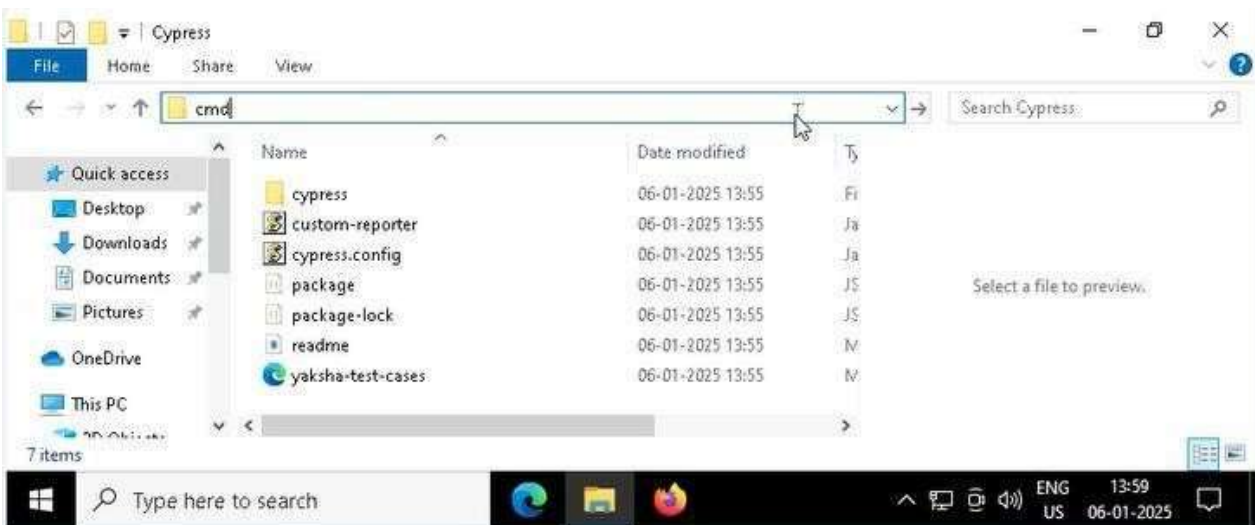


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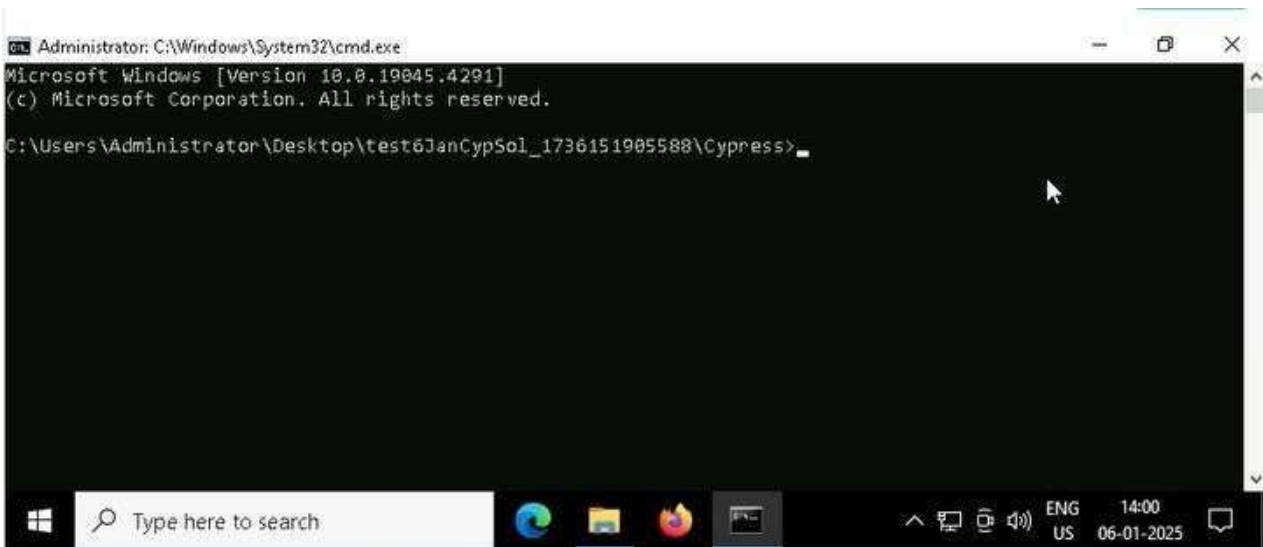




### 3. Open command prompt with its location using “cmd” in search bar



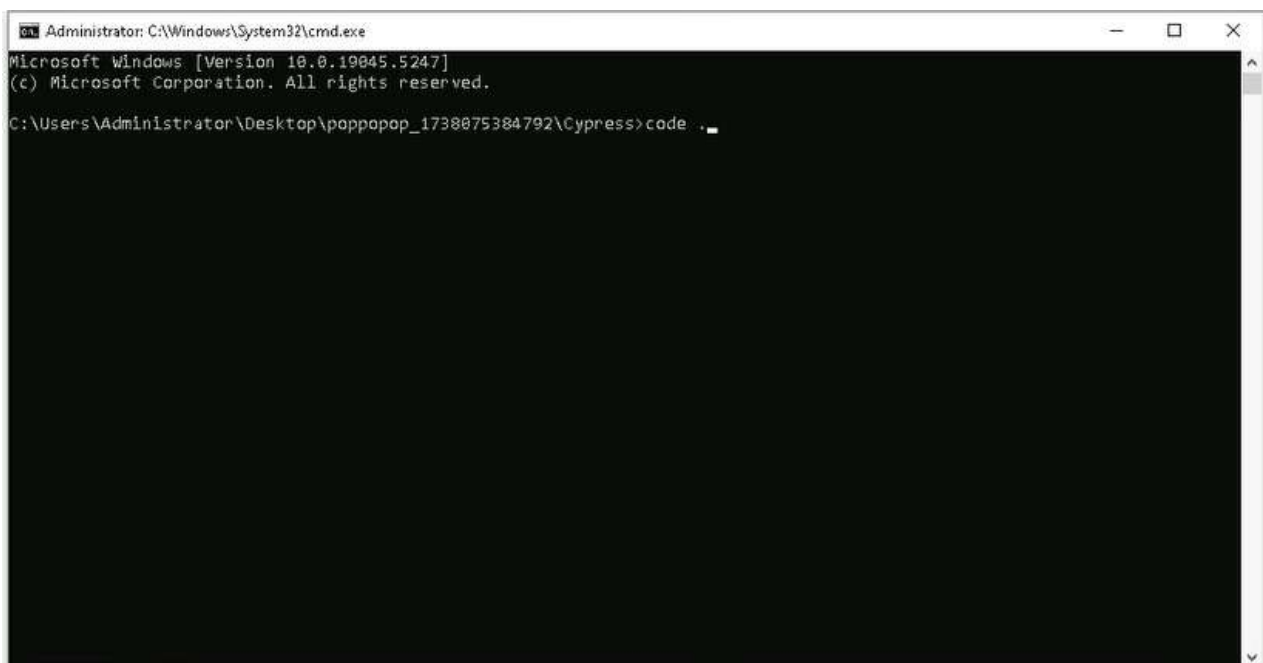
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A screenshot of a Windows command prompt window titled "Administrator: C:\Windows\System32\cmd.exe". The window shows the following text: "Microsoft Windows [Version 10.0.19045.4291] (c) Microsoft Corporation. All rights reserved. C:\Users\Administrator\Desktop\test6JanCypSol\_1736151905588\Cypress>". The taskbar at the bottom shows the Windows logo, a search bar, and several application icons. The system tray on the right indicates the language is "ENG US", the time is "14:00", and the date is "06-01-2025".

4. Open VS Code through cmd using below command:

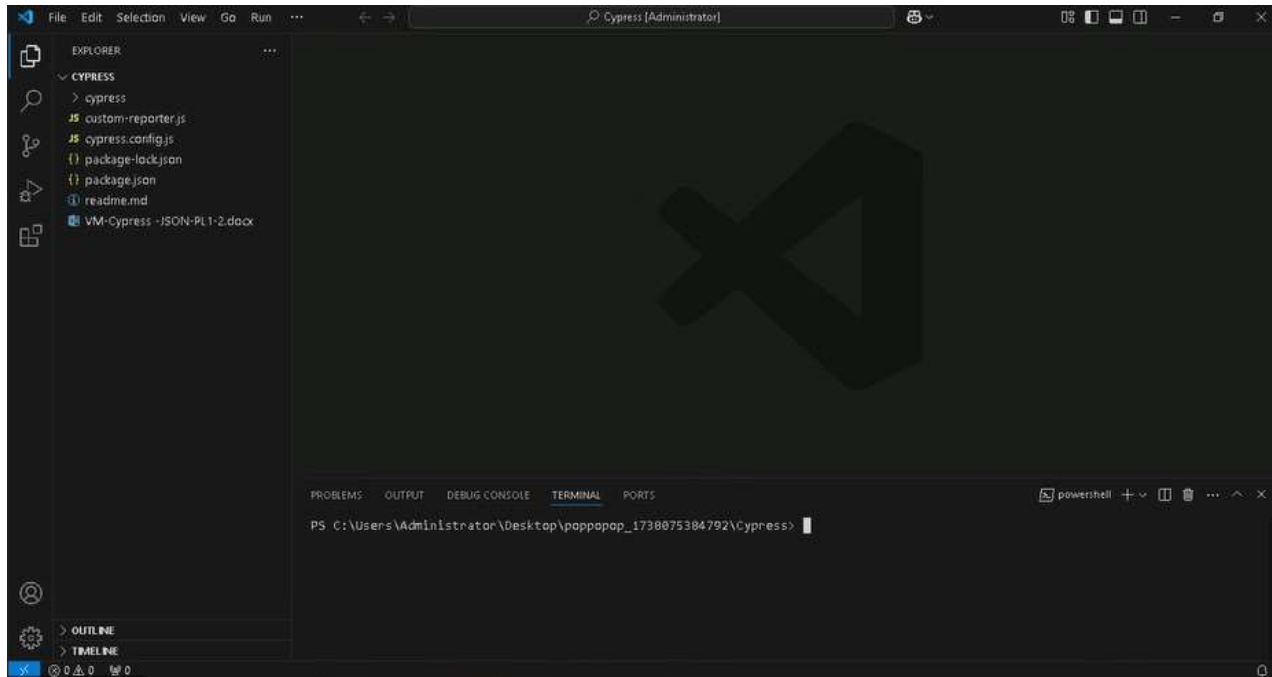
`code .`



A screenshot of a Windows command prompt window titled "Administrator: C:\Windows\System32\cmd.exe". The window shows the following text: "Microsoft Windows [Version 10.0.19045.5247] (c) Microsoft Corporation. All rights reserved. C:\Users\Administrator\Desktop\poppopop\_1738075384792\Cypress>code .". The taskbar and system tray are visible at the bottom, showing the same application icons and system information as the previous screenshot.

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**5. Once VsCode is open. Please open the terminal in Cypress folder:**



**1. Install all dependencies in the Cypress folder path using:**

**npm install**

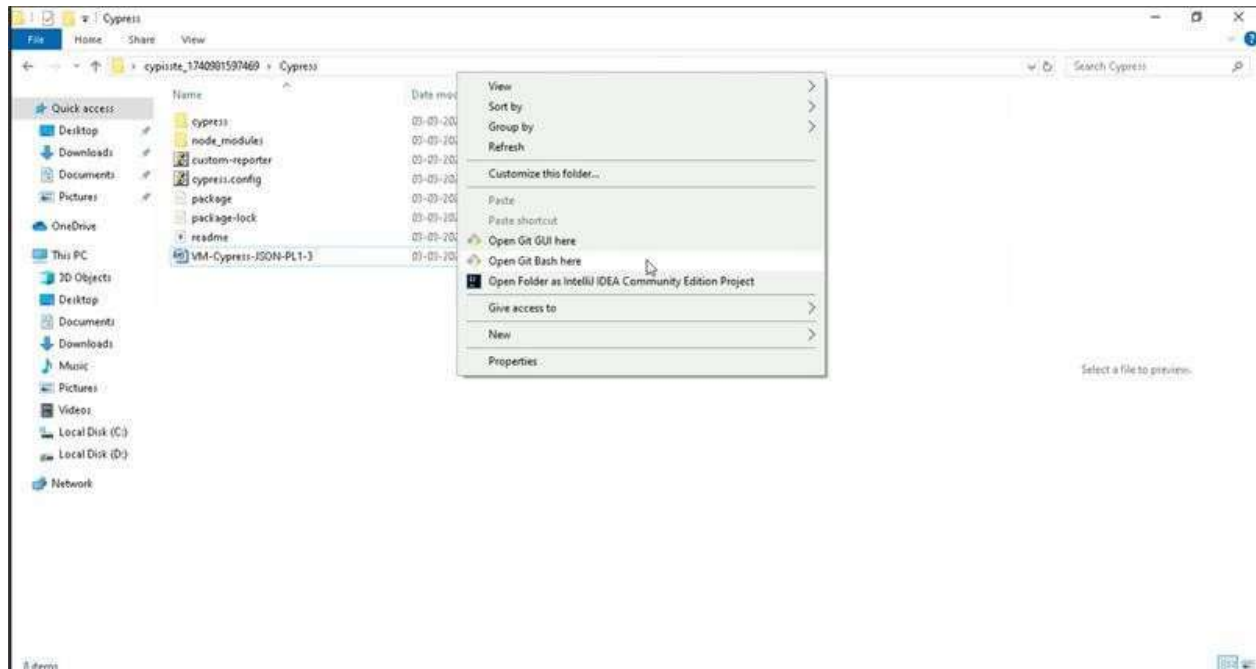
**2. Run the following command to open the interactive Cypress Test Runner in the Cypress folder path:**

**npx cypress open**

**3. Run the following command to run test cases in headless mode in the Cypress folder path:**

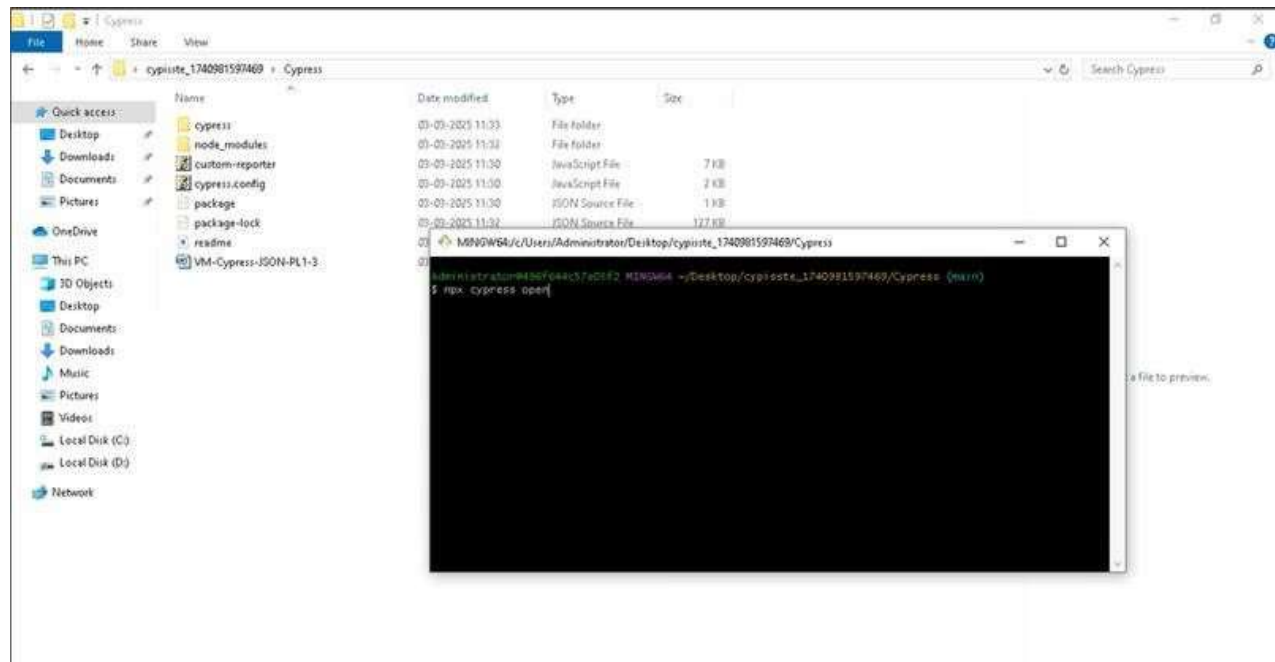
**npx cypress run**

If you face any issue in executing above commands i.e `npx cypress open` and `npx cypress run` in cmd. Please try to run these in git bash from cypress folder as:



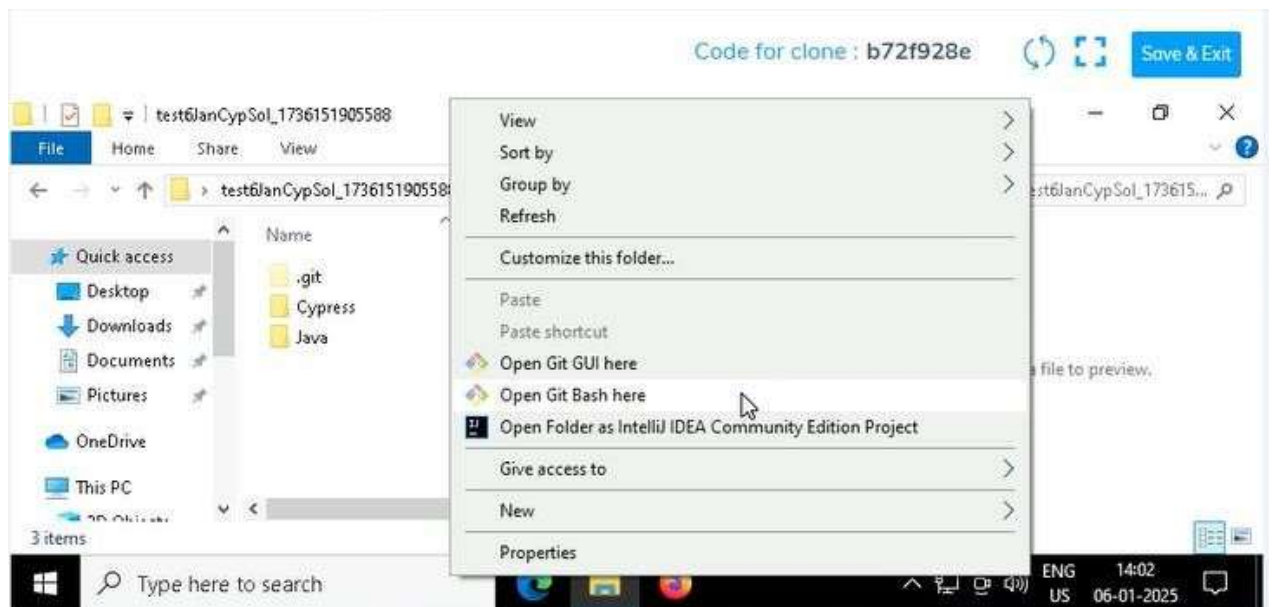
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and then execute commands like:



4. Once you have executed the test cases. Now it is necessary to push your code to git. For this, please go inside the folder created on desktop with the email id you have used to login and then:

1. Open gitbash



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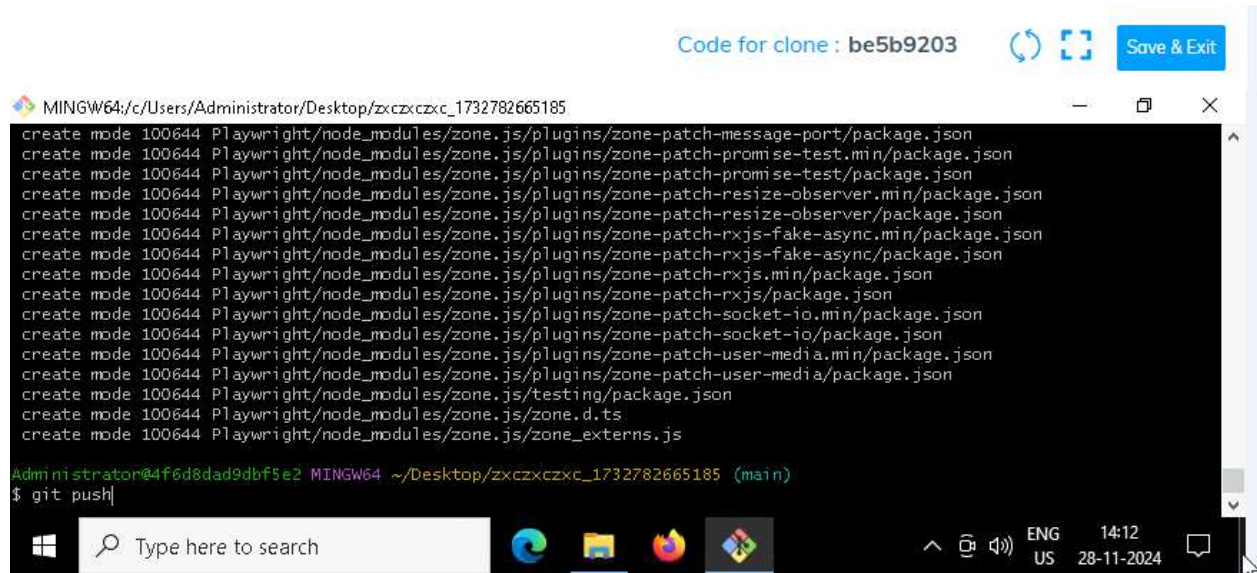
## 2. Add all files

The screenshot shows the OrangeHRM interface. On the left, under the 'Question' tab, is 'Q1. VM-Playwright-Excel-Solution'. Below it, under 'Instructions', is an 'Introduction' section stating: 'This is a project-based assessment, in which you will be provided with a template code to work. You will be provided with a pre-configured Virtual Machine (VM) to develop the case study.' There is also a 'Launch' button with a VM icon. On the right, a terminal window is open with the command `git add .` entered. The terminal title bar shows the path `MINGW64/c/Users/Administrator/Desktop/zxczxc_1732782665185`. The top of the interface shows a 'Speed Test' section with 'Avg: 4.36Mbps' and 'Live: >= 10Mbps'. On the far right, there are buttons for 'Final Submission' and 'Save & Exit'.

## 3. Commit the changes

This screenshot shows the terminal window from the previous step, now displaying the output of the `git add .` command. It shows several warnings about line endings (LF vs CRLF) for various files in the `Playwright/node_modules/zone.js/plugins/` directory. The terminal prompt is now `Administrator@4f6d8dad9dbf5e2 MINGW64 ~/Desktop/zxczxc_1732782665185 (main)`. The user has entered the command `$ git commit -m "committing the updates"`. The top of the interface shows the 'Code for clone : be5b9203' and the 'Save & Exit' button.

#### 4. Push the changes



The screenshot shows a Windows terminal window with a dark background. At the top, there is a blue header bar with the text "Code for clone : be5b9203" and a "Save & Exit" button. Below the header, the terminal displays the output of a git push command. The output consists of 15 lines, each starting with "create mode 100644" followed by a file path. The file paths are located in the directory "Playwright/node\_modules/zone.js/plugins/" and "Playwright/node\_modules/zone.js/testing/". The paths include files like "zone-patch-message-port/package.json", "zone-patch-promise-test.min/package.json", "zone-patch-resize-observer.min/package.json", "zone-patch-rxjs-fake-async.min/package.json", "zone-patch-rxjs/package.json", "zone-patch-socket-io.min/package.json", "zone-patch-user-media.min/package.json", "zone.d.ts", and "zone\_externs.js". Below the output, the terminal prompt shows the user is Administrator@4f6d8dad9dbf5e2 in a MINGW64 environment, and the current directory is ~/Desktop/zxczxcxc\_1732782665185 (main). The prompt is followed by "\$ git push". At the bottom of the terminal window, there is a Windows taskbar with the Start button, a search bar, and several application icons. The system tray on the right shows the date and time as 14:12 on 28-11-2024.

```
Code for clone : be5b9203 Save & Exit
MINGW64~/c:/Users/Administrator/Desktop/zxczxcxc_1732782665185
create mode 100644 Playwright/node_modules/zone.js/plugins/zone-patch-message-port/package.json
create mode 100644 Playwright/node_modules/zone.js/plugins/zone-patch-promise-test.min/package.json
create mode 100644 Playwright/node_modules/zone.js/plugins/zone-patch-resize-observer.min/package.json
create mode 100644 Playwright/node_modules/zone.js/plugins/zone-patch-resize-observer/package.json
create mode 100644 Playwright/node_modules/zone.js/plugins/zone-patch-rxjs-fake-async.min/package.json
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create mode 100644 Playwright/node_modules/zone.js/plugins/zone-patch-user-media/package.json
create mode 100644 Playwright/node_modules/zone.js/testing/package.json
create mode 100644 Playwright/node_modules/zone.js/zone.d.ts
create mode 100644 Playwright/node_modules/zone.js/zone_externs.js
Administrator@4f6d8dad9dbf5e2 MINGW64 ~/Desktop/zxczxcxc_1732782665185 (main)
$ git push
```

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