

YAKSHA

APP WITH JAVASCRIPT AND CYPRESS PL1-7

## 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 WorkExpData.json, LoginData.json Etc.**

Path	File	Description
\fixtures	WorkExpData.json DeleteWorkExp.json EduRecordData.json HolidayForm.json LoginData.json	1. Contains data to read from json file.

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PageObjects\Pages	<ul style="list-style-type: none"> <li>• LoginPage</li> <li>• ProfilePage</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 New 'Qualification' could be added to the record of user	<ol style="list-style-type: none"> <li>1. Login using valid credentials</li> <li>2. Click on "My Info" tab</li> <li>3. Click 'Qualification' from the sidebar</li> <li>4. Click on 'Add' work experience 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> e2e /ProfilePage.js, spec.js</p> <p><b>Methods:</b> addQualificationRecord()</p>	Verify the new qualification gets added to the list of records.
2	Verify New 'Qualification' added could be edited from the record of user	<ol style="list-style-type: none"> <li>1. Login using valid credentials</li> <li>2. Click on "My Info" tab</li> <li>3. Click 'Qualification' from the sidebar</li> <li>4. Click on 'edit icon' button</li> </ol> <p>Fill the new record to the with Unique Comment for Tracking company and job title</p> <p><b>User must be logged in with Admin privileges.</b></p>	<p><b>Reference path</b> e2e /ProfilePage.js:</p> <p><b>Methods:</b> editQualificationRecord()</p>	Verify the New record from the list of records

Test Case No.	Test Case Name	Test Steps to be performed	Path & Method Used	Expected Result
3	Verify the qualification could be deleted	<ol style="list-style-type: none"> <li>1. Login using valid credentials</li> <li>2. Click on "My Info" tab</li> <li>3. Click 'Qualification' from the sidebar</li> <li>4. Click on 'delete icon' button</li> <li>5. Confirm the Deletecheck error message</li> </ol> <p><b>User must be logged in with Admin access.</b></p>	<p><b>Reference path</b></p> <p>e2e /ProfilePage.js:</p> <p><b>Methods</b></p> <p>deleteQualificationRecord()</p>	Verify the qualification gets deleted from the record
4	Verify the qualification select delete functionality	<ol style="list-style-type: none"> <li>1. Login using valid credentials</li> <li>2. Click on "My Info" tab</li> <li>3. Click 'Qualification' from the sidebar</li> <li>4. Select top 3 from the list</li> <li>5. Click select deleted and confirm delete</li> </ol> <p><b>User must be logged in and on the home page</b></p>	<p><b>Reference path</b></p> <p>e2e /ProfilePage.js</p> <p><b>Methods</b></p> <p>deleteMultipleRecords()</p>	Verify the selected qualification gets deleted successfully
5	Verify New 'Qualification' could be added to the record of user	<ol style="list-style-type: none"> <li>1. Login using valid credentials</li> <li>2. Click on "My Info" tab</li> <li>3. Click 'Qualification' from the sidebar</li> <li>4. Click the 'Add' button</li> </ol> <p>Fill the form and click save button</p> <p><b>User must be logged in with Admin privileges.</b></p>	<p><b>Reference path</b></p> <p>e2e /ProfilePage.js</p> <p><b>Methods</b></p> <p>addEducationRecord()</p>	Verify the newly added education gets displayed in the records

6	Verify New 'Education' added could be edited from the record of user	<ol style="list-style-type: none"> <li>1. Login using valid credentials</li> <li>2. Click on "My Info" tab</li> <li>3. Click 'Qualification' from the sidebar</li> <li>4. Click the 'Edit' icon button for desired entry</li> <li>5. Fill the form(year) and hit save.</li> </ol> <p><b>Images must exist in cypress/fixtures</b></p> <p><b>User must be logged in</b></p>	<p><b>Located in</b></p> <p>e2e /ProfilePage.js:</p> <p><b>Methods :</b></p> <p>editEducationRecord()</p>	Verify the year field gets replaced in the records
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7	Verify the Language could be Added	1. Login using valid credentials 2. Click on "My Info" tab 3. Click 'Qualification' from the sidebar 4. Click the 'Add' button 5. Fill the form and click save button  <b>At least one user should exist in the user list User must be logged in with Admin privileges.</b>	<b>Reference path</b> e2e /ProfilePage.js:  <b>Methods:</b> addLanguageRecord()	Verify the field gets added to the records
8	Verify the Language delete functionality	1. Login using valid credentials 2. Click on "My Info" tab 3. Click Language from the sidebar 4. Click on 'delete icon' button 5. Confirm the Delete check error message  <b>User must be logged in with Admin access At least two records with different Usernames must exist</b>	<b>Reference path</b> e2e /ProfilePage.js:  <b>Methods</b> deleteLanguageRecord()	Verify the added record gets deleted from the Users' data.
9	Verify the 'Skills' could be added to the record	1. Login using valid credentials 2. Click on "My Info" tab 3. Click 'Qualification' from the sidebar 4. Click on 'edit' icon on desired skill 5. Fill the Form and hit save button  <b>User must be logged in and on the home page</b>	<b>Reference path</b> e2e /ProfilePage.js  <b>Methods</b> addSkillsRecord()	Verify 'Skills' gets added to the list of records
10	Verify the 'Skills' could be edited from the record	1. Login using valid credentials 2. Click on "My Info" tab 3. Click 'Qualification' from the sidebar 4. Click on 'edit' icon on desired skill 5. Fill the Form and hit save button	<b>Reference path</b> e2e/ProfilePage.js  <b>Methods</b> editSkillRecord()	Verify 'skill' gets edited successfully from the list of records

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

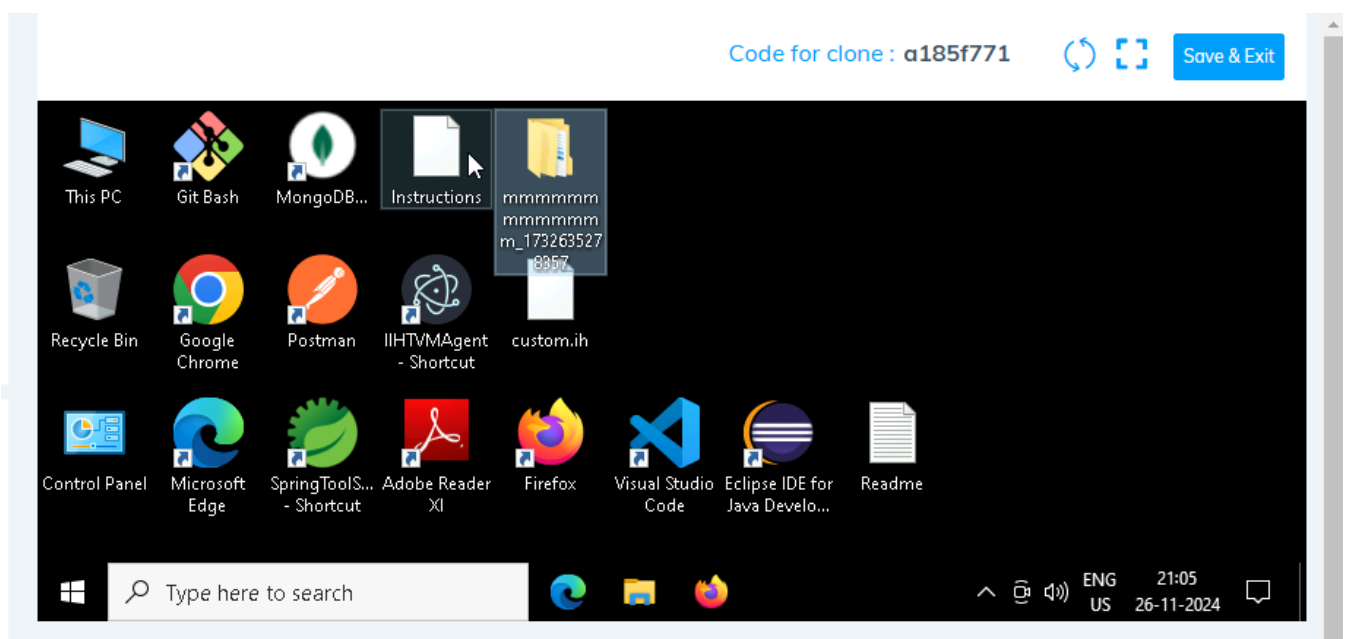
### 1.1 CODE QUALITY/OPTIMIZATIONS

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

**Execution Steps:**

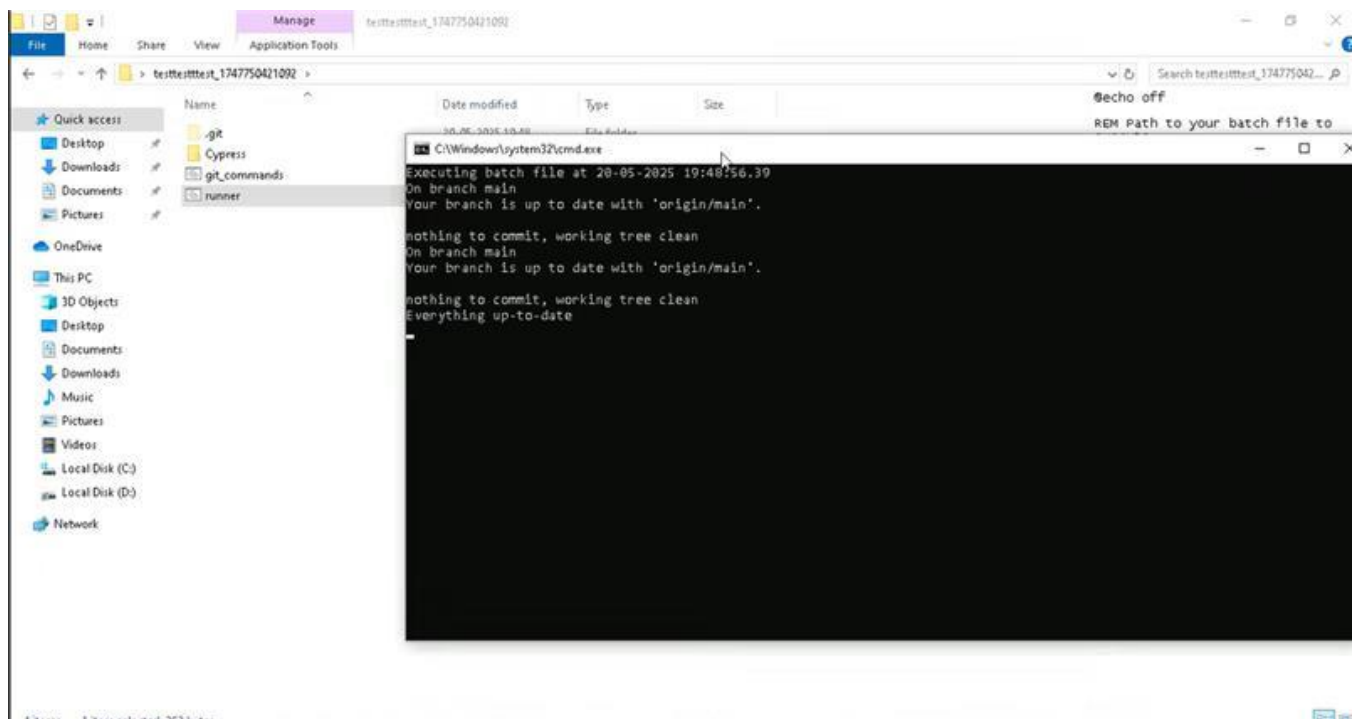
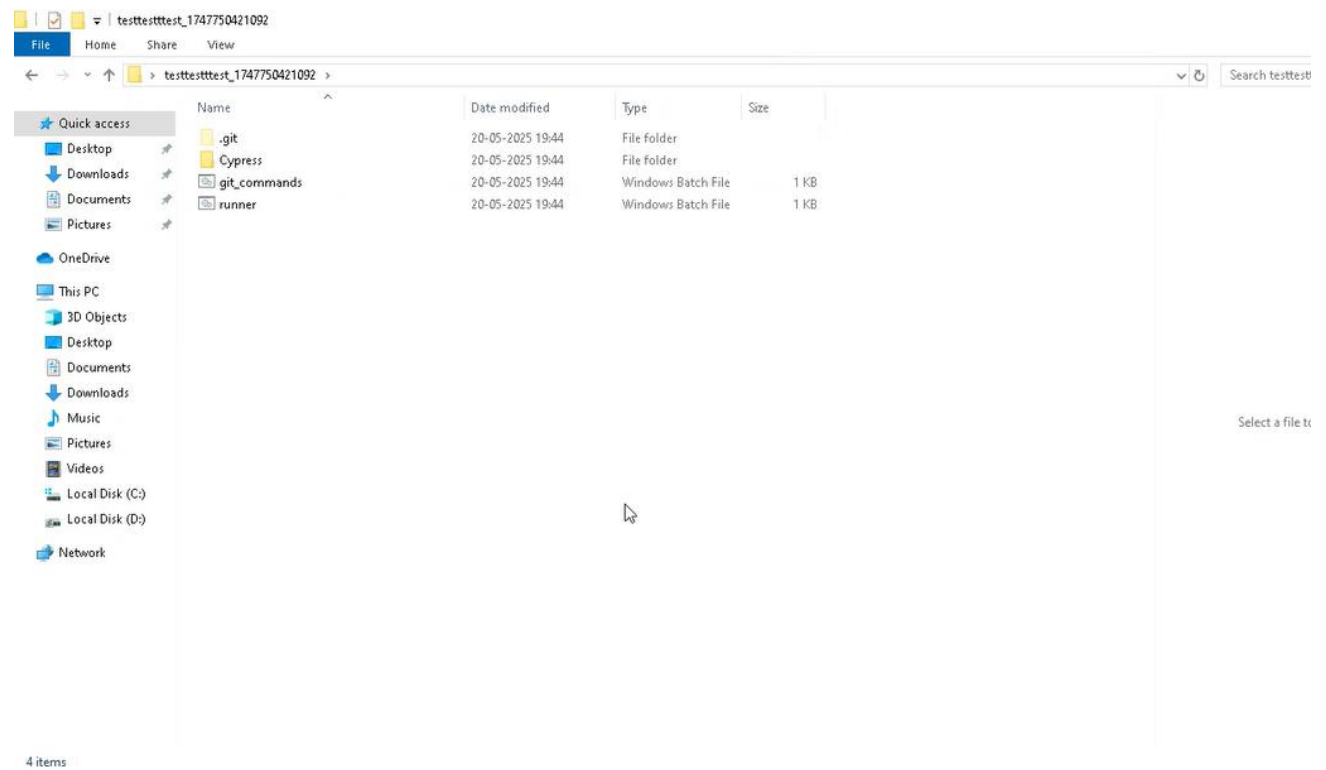
**Steps for Execution:**

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



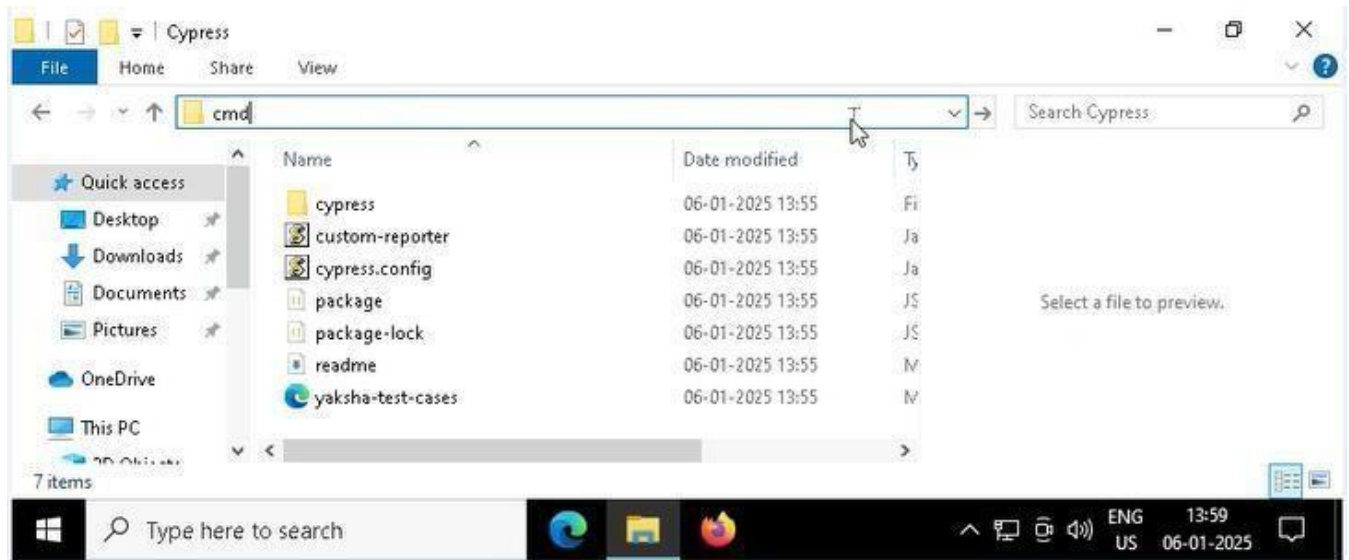
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## 2. Execute this “runner” file. This will keep pushing the code at regular intervals.

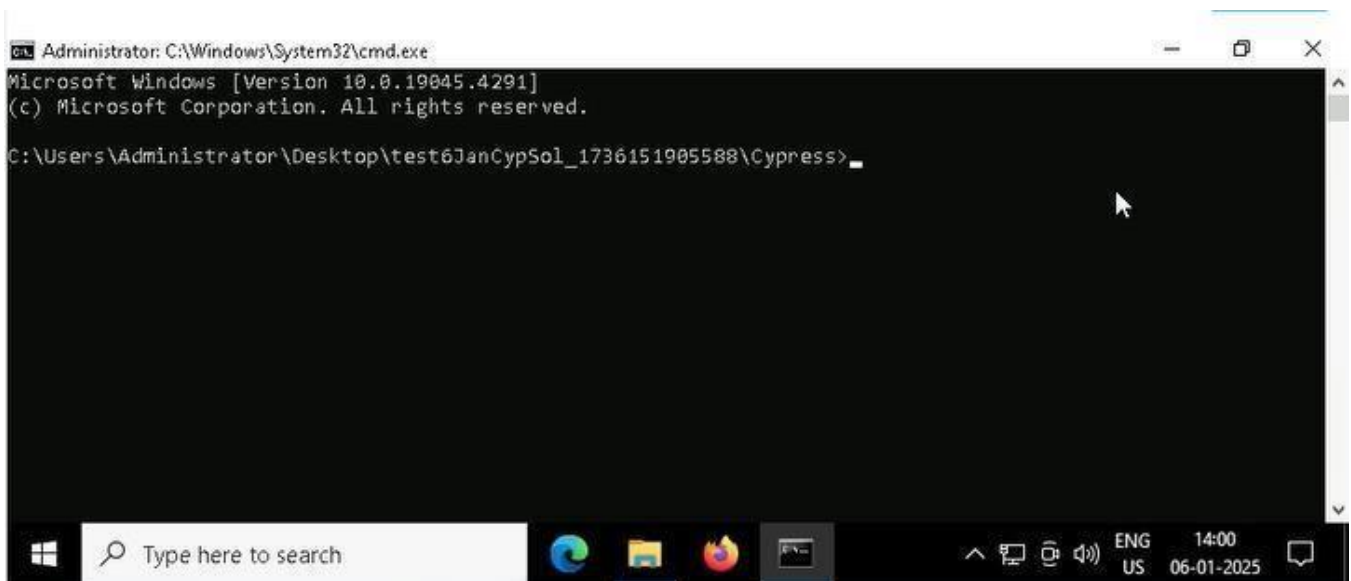


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3. Go into the Cypress folder and Open command prompt with its location using “cmd” in search bar

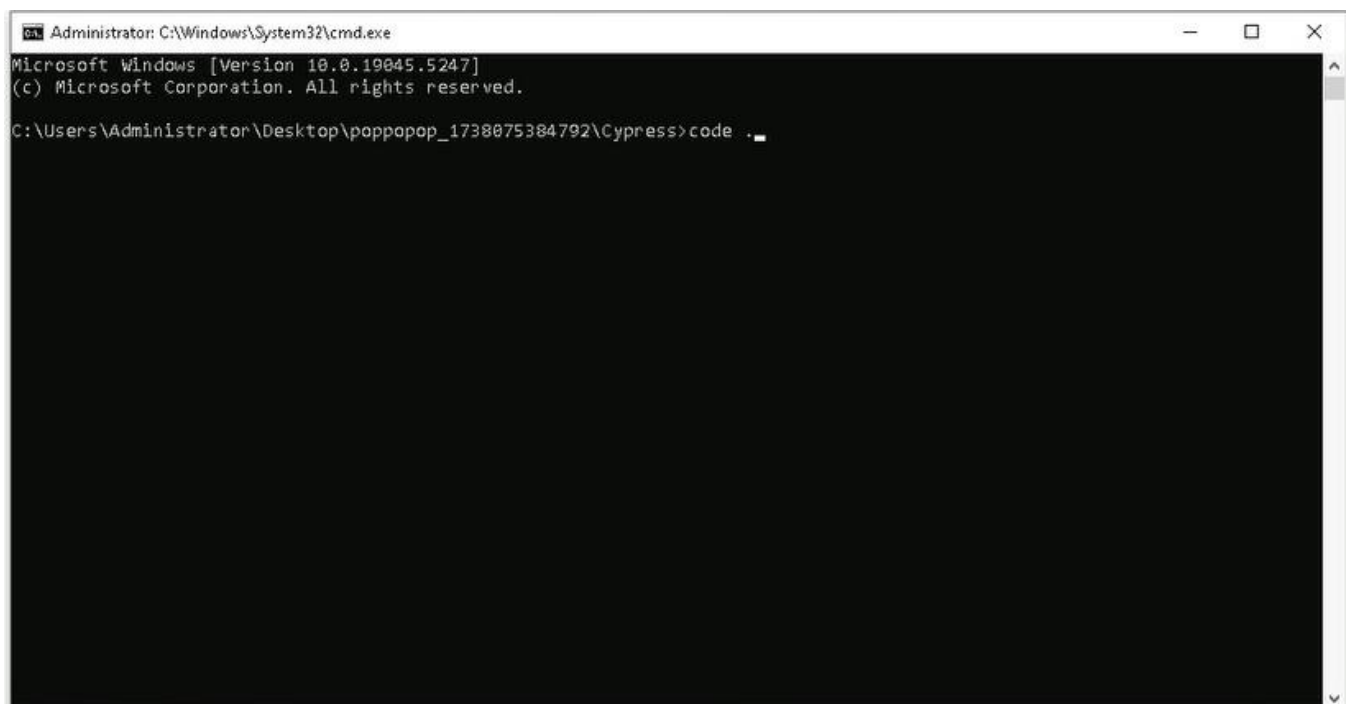




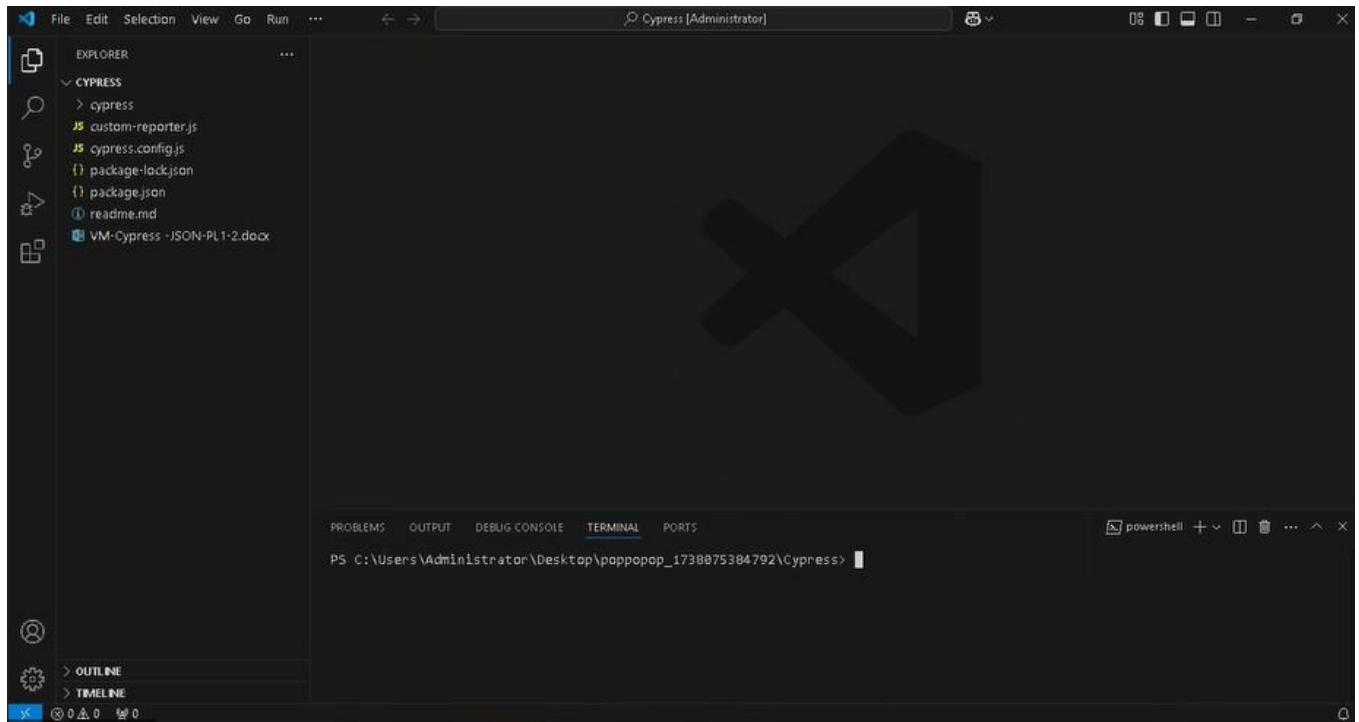


4. Open VS Code through cmd using below command:

`code .`



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



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

**npm install**

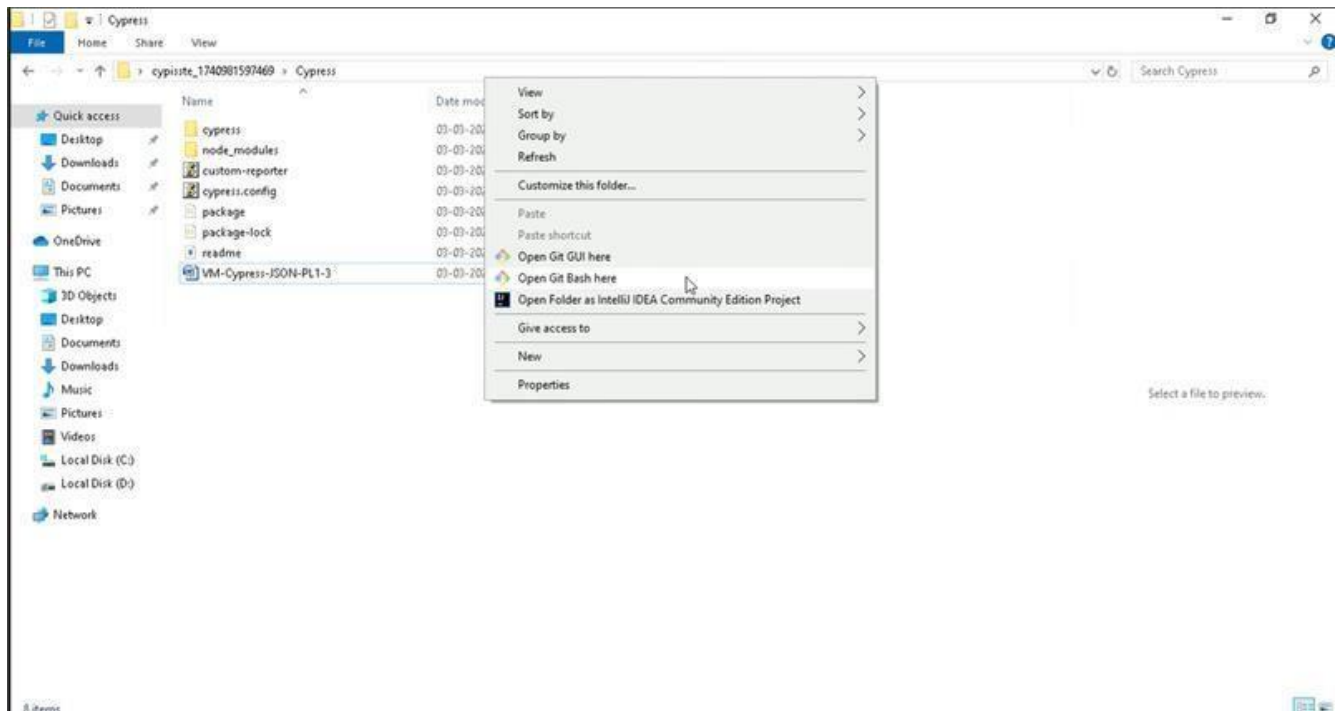
**2. Run the following command to open the interactive Cypress Test Runner in the Cypress folder path:**

**npx cypress open**

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

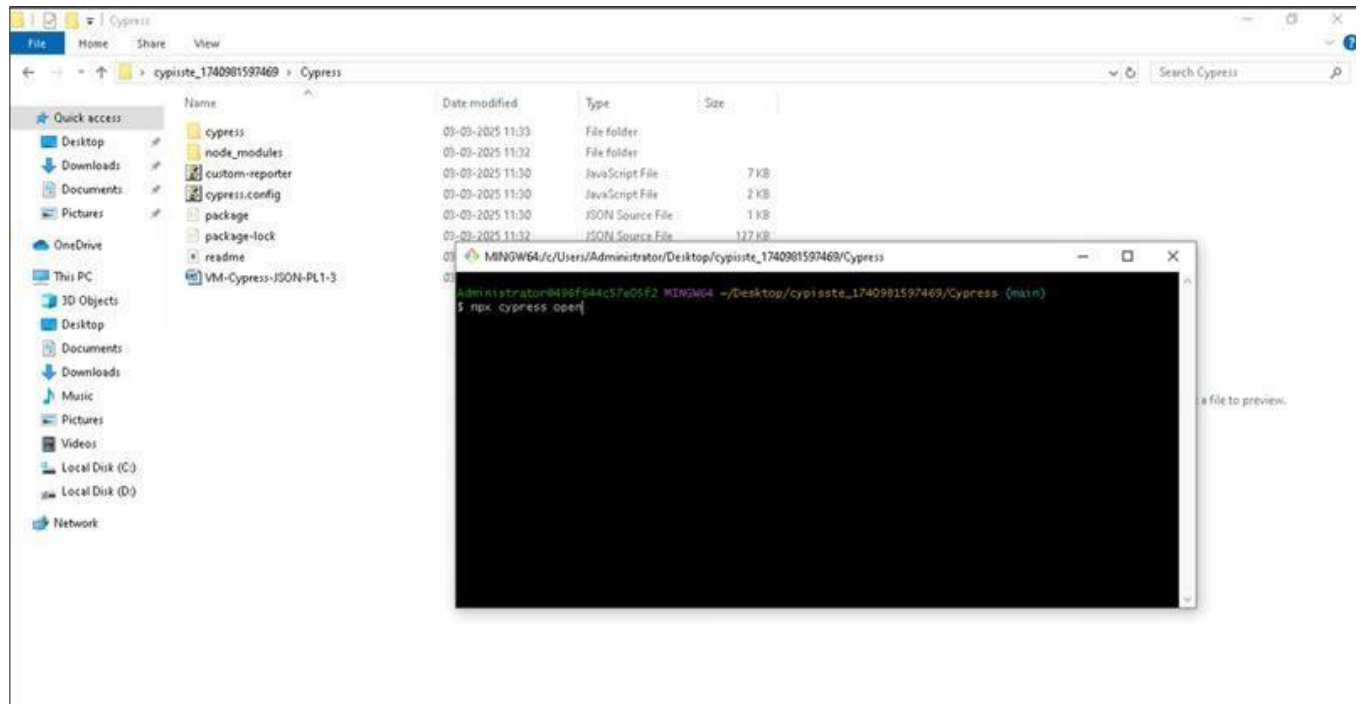
**npx cypress**

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:



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