

YAKSHA HEALTH APP WITH JAVASCRIPT AND CYPRESS PL1-6

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 a few Json files in the fixtures folder like LoginData.json, skylImage.jpg, ImageGreaterThan1Mb.jpg and UserDetailForm.json.

Path	File	Description
\fixtures	UserDetailForm.Json ImageGreaterThan1Mb.jpg LoginData.json skyimage.jpg	1. Contains data to read from the json file.

PageObjects\Pages	<ul style="list-style-type: none"> ● AdminPage ● BuzzPage ● HomePage ● LeavesPage ● LoginProfilePage ● MyInfoPage ● PimPage ● ProfilePage 	<ol style="list-style-type: none"> 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 need to share data/status between different methods. <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"> 1. Login using valid credentials 2. Click on "Buzz" tab in sidebar 3. Click on Delete button on any post in the List 4. Click on "Yes delete" button in popup. <p>Images must exist in Cypress /fixtures User must be logged in.</p>	<p>Located in PageObjects/Pages/BuzzPage.js</p> <p>Methods: deletePostCheck()</p>	Post should get Deleted
2	Verify "Get" help button is functional	<ol style="list-style-type: none"> 1. Login using valid credentials 2. click on "Questions mark icon" button. <p>Images must exist in Cypress /fixtures User must be logged in.</p>	<p>Located in PageObjects/Pages/HomePage.js</p> <p>Methods: tooltipFunctional()</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"> 1. Login using valid credentials 2. Click on "PIM" in the sidebar 3. Click on the Employee List tab 4. check for presence of a list <p>Users must be logged in with Admin access.</p>	<p>Reference path</p> <p>PageObjects/Pages/PimPage.js</p> <p>Methods</p> <p>employeeListCheck()</p>	A list of employees should appear.
4	Verify Employee List Search functionality	<ol style="list-style-type: none"> 1. Login using valid credentials 2. Click on "PIM" in the sidebar 3. Click on the Employee List tab 4. Enter the Username to search 5. Click the "Search" button <p>User must be logged in and on the home page</p>	<p>Reference path</p> <p>PageObjects/Pages/PimPage.js</p> <p>Methods</p> <p>searchEmployeeById(foundID)</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"> 1. Login using valid credentials 2. Click on "admin" in the side bar 3. Click on the "Corporate branding" 4. Click the colour circle after primary colour label 5. Enter the hexacode of the colour 6. Click on Publish button <p>User must be logged in with Admin privileges.</p>	<p>Reference path</p> <p>PageObjects/Pages/AdminPage.js</p> <p>Methods</p> <p>changePrimaryColour(primaryColour)</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"> 1. Login using valid credentials 2. Click on "admin" in the sidebar 3. Click on the "Corporate branding" tab 4. Click the Client Logo Browse button 5. Select the desired file from device and click open button <p>Images must exist in cypress/fixtures User must be logged in</p>	<p>Located in PageObjects/Pages/AdminPage.js</p> <p>Methods : uploadImageGt1Mb('ImageGreaterThan1Mb.jpg')</p>	Incorrect Dimension Error should Display
7	Verify Language change Functionality	<ol style="list-style-type: none"> 1. Login using valid credentials 2. Click on "admin" in the sidebar 3. Click on the "Configuration" tab 4. Click the Localization button 5. Select the desired Language from the dropdown (Chinese) 6. Click on Save button <p>At least one user should exist in the user list Users must be logged in with Admin privileges.</p>	<p>Reference path PageObjects/Pages/AdminPage.js</p> <p>Methods: languageChangeFunctionality()</p>	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"> 1. Login using valid credentials 2. Click on "leave" in the sidebar 3. Click on the "assign Leave" button 4. Click on "Assign" button without filing any details in any field <p>User must be logged in with Admin access At least two records with different usernames must exist</p>	<p>Reference path PageObjects/Pages/LeavePage.js</p> <p>Methods leaveAssignEmptyValueError()</p>	"Required" error should be displayed

9	Verify My info Download Functionality	1. Login using valid credentials 2. Click on "My info" in the sidebar 3. Scroll to the bottom 4. Click on "Download icon" button User must be logged in and on the Home page	Reference path PageObjects/Pages/ProfilePage.js Methods myInfoPageDownloadFunctionality()	File should get Downloaded
10	Verify User details could be Updated	1. Login using valid credentials 2. Click on "My info" in the sidebar 3. Enter the user name ,middle name, last name in the form 4. Click the save button>Refresh User must be logged in and on the Home page	Reference path PageObjects/Pages/ProfilePage.js Methods userProfileUpdateFunction()	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

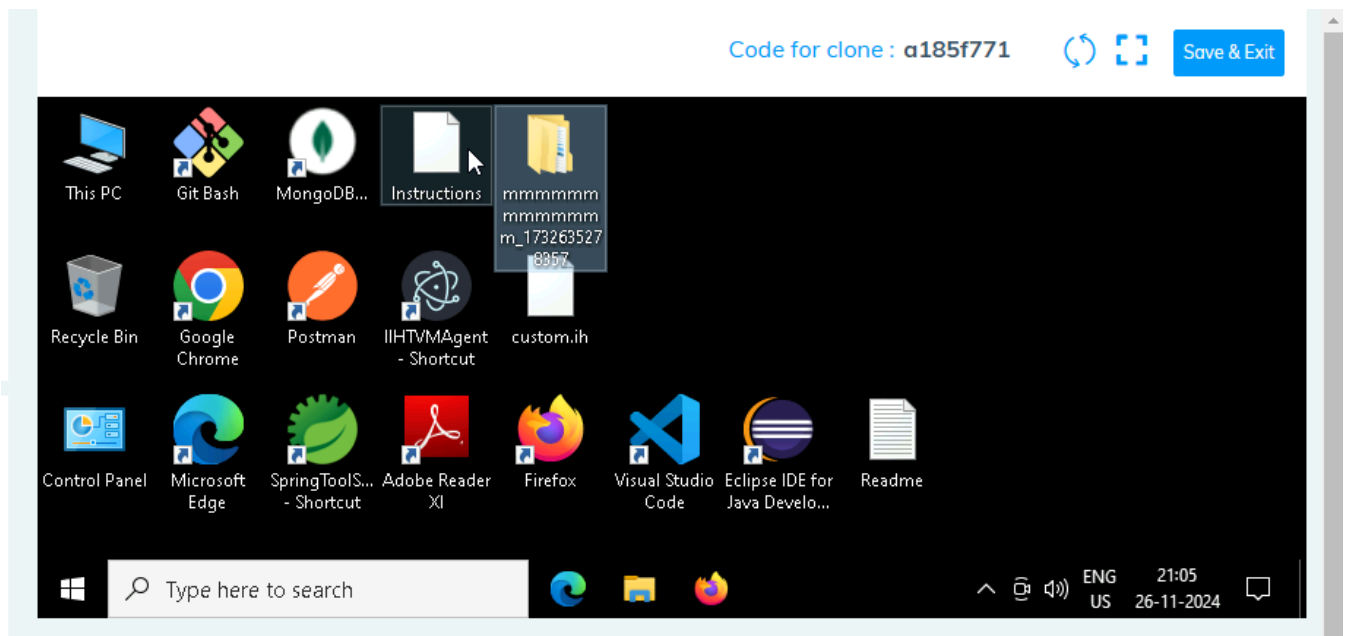
1.1 CODE QUALITY/OPTIMIZATIONS

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

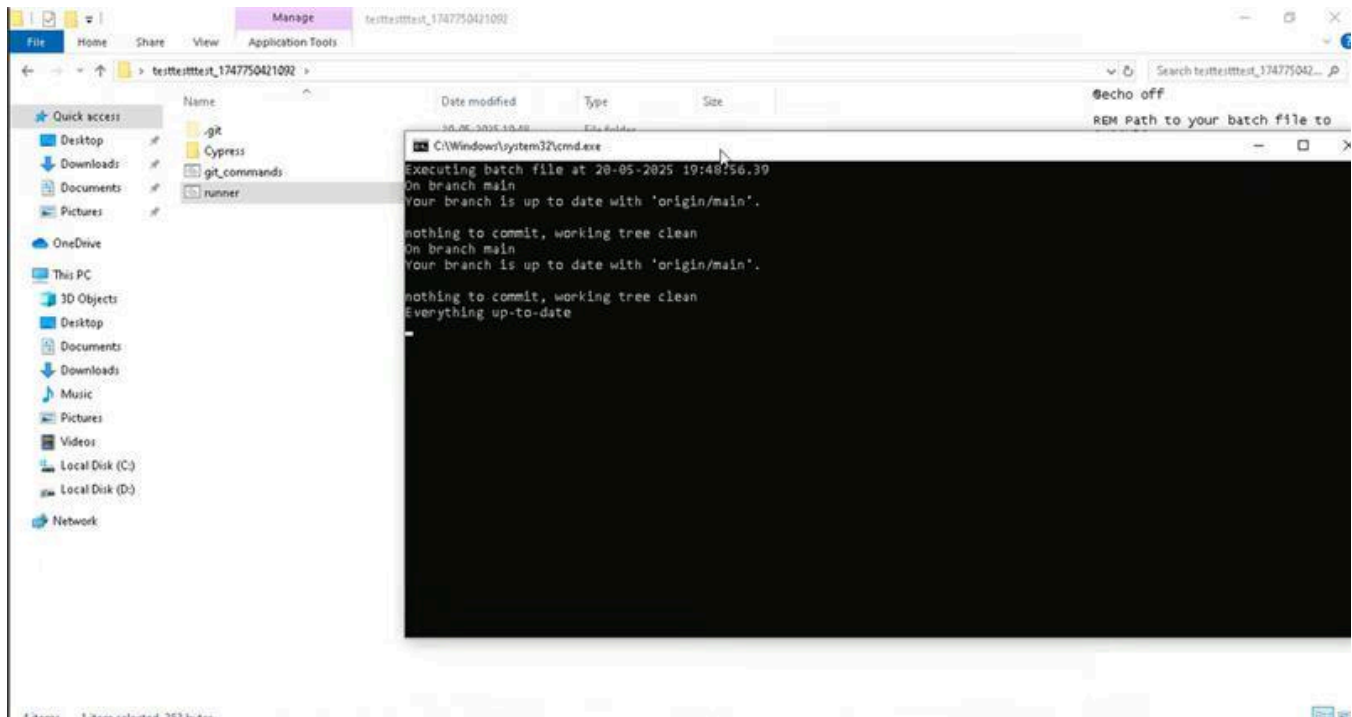
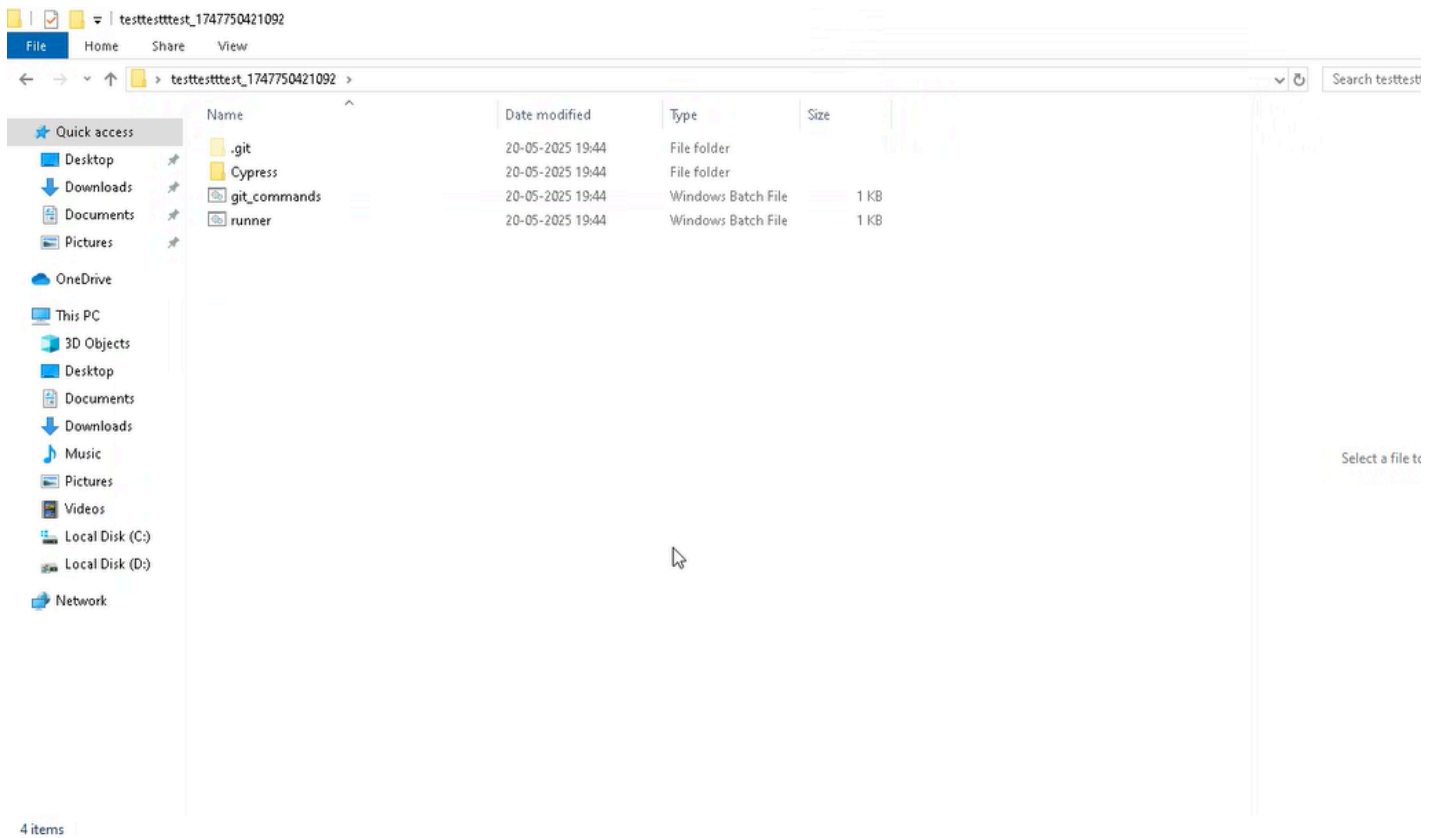
Execution Steps:

Steps for Execution:

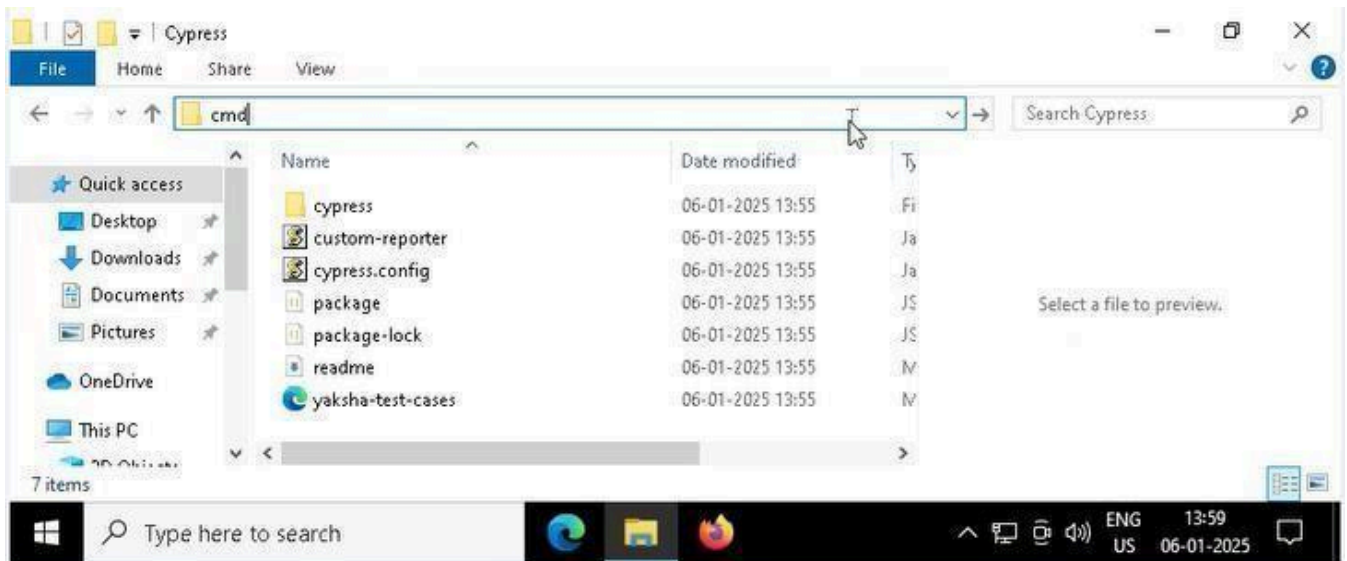
1. Please open the folder created on the desktop with the email name you used to login.

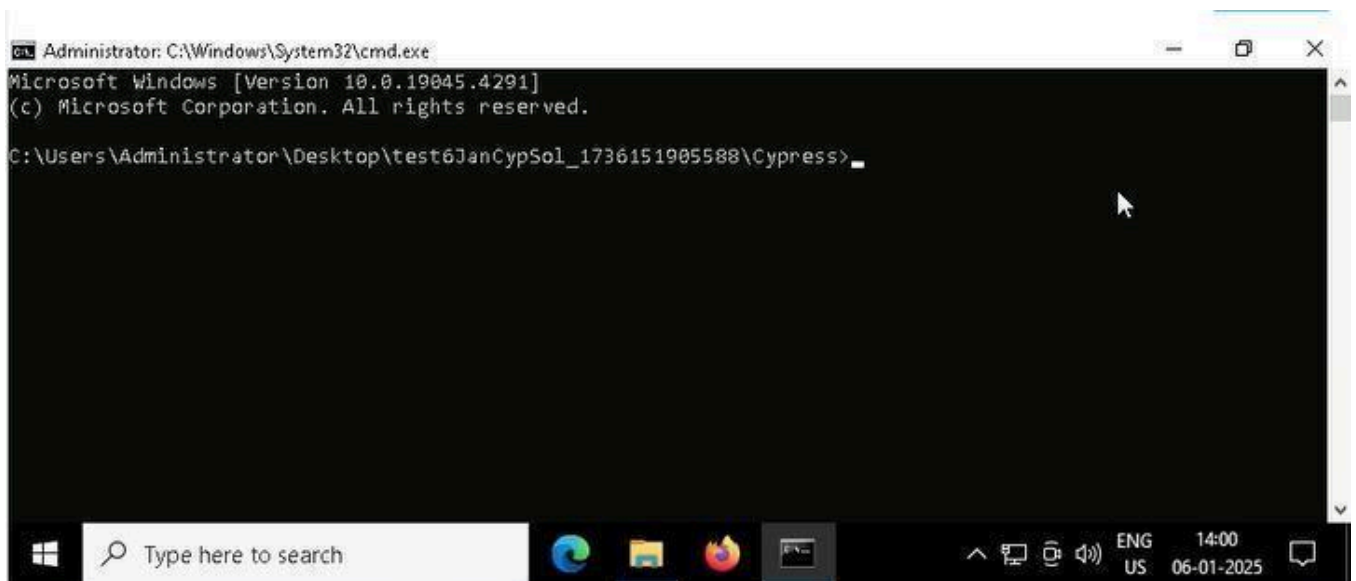


2. Execute this “runner” file. This will keep pushing the code at regular intervals.



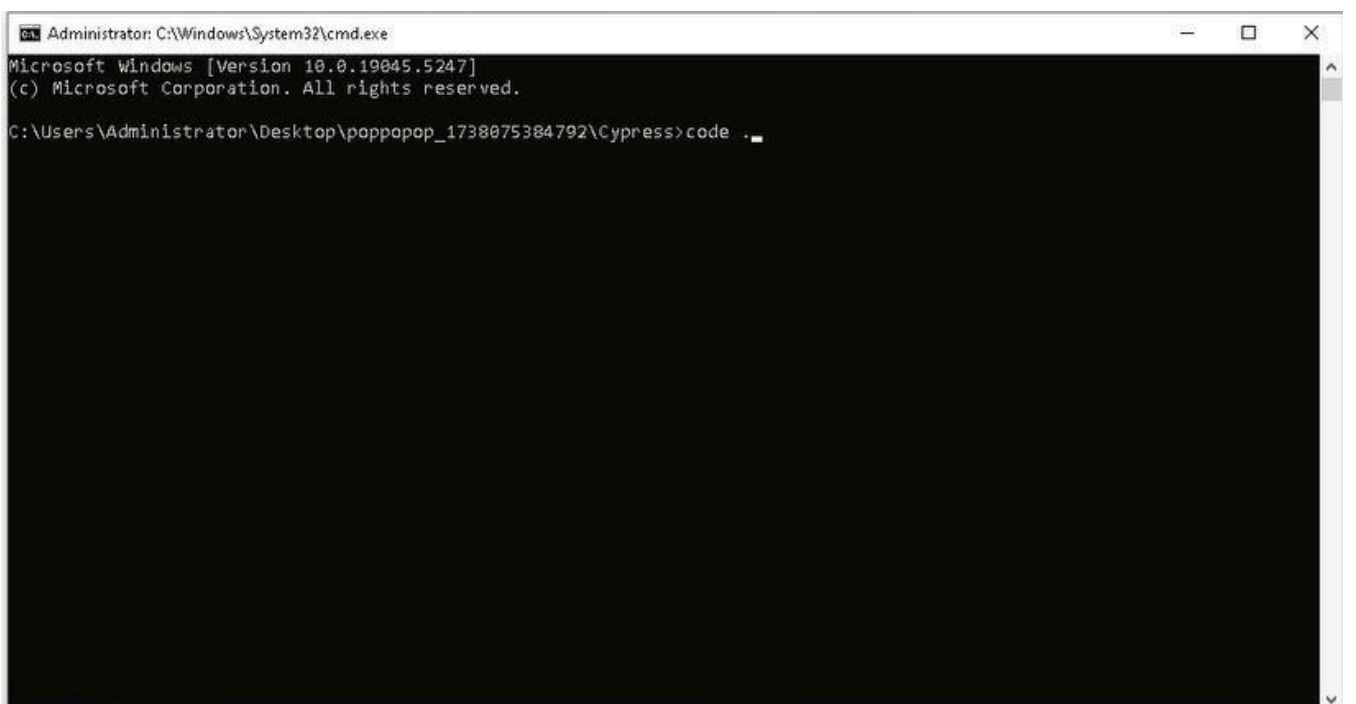
3. Go into the Cypress folder and Open command prompt with its location using “cmd” in search bar



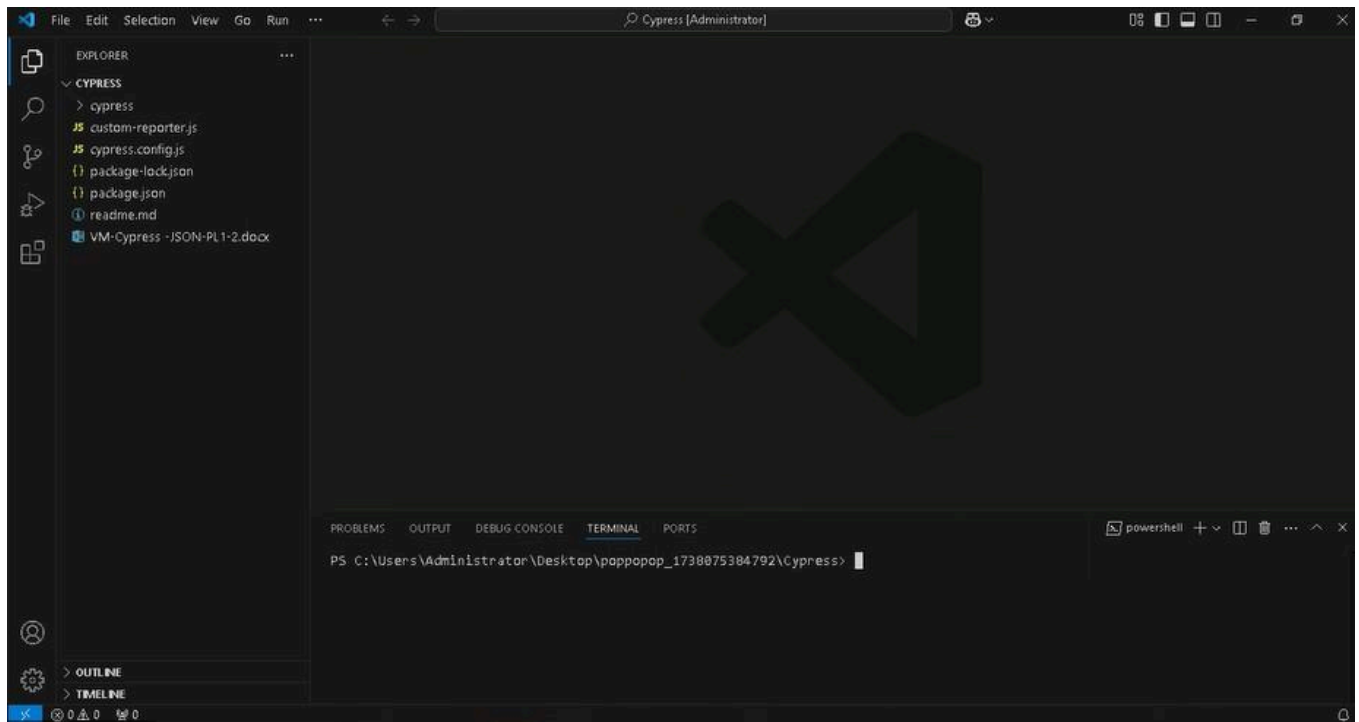


4. Open VS Code through cmd using below command:

`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

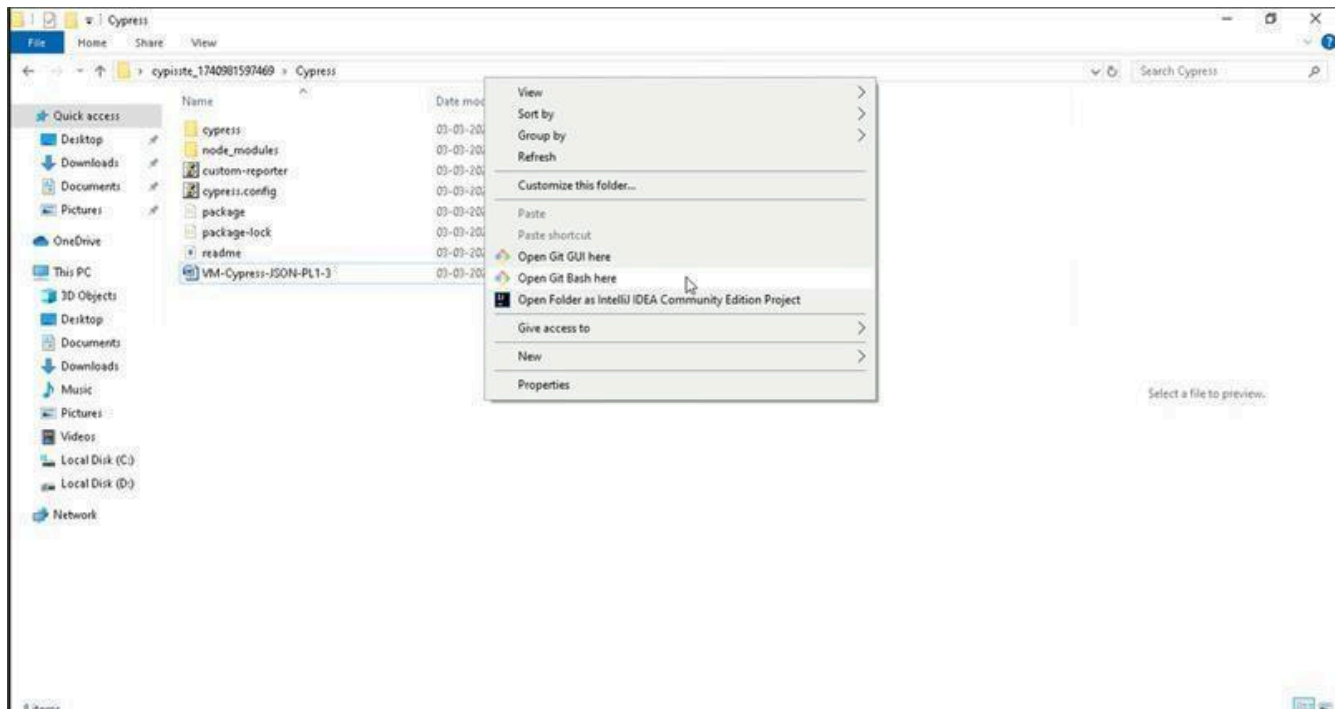
folder path: `npx cypress open`

3. Run the following command to run test cases in headless mode in the Cypress

folder path: `npx cypress run`

****NOTE: - It is a must to execute `npx cypress run`, this runs test cases in headless mode, shows summary in the end and submits the test cases on server.**

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:



and then execute commands like:

