Project: Test Automation for Luni Interface Website Using Cypress and POM

Objective

Develop a robust test automation framework for the [Luni Interface](#) website using Cypress and the Page Object Model (POM) design pattern. The framework will validate core functionalities, navigation, responsiveness, and user interactions.

What You Will Do

1. **Set Up Cypress**
   - Install Cypress and configure the testing environment for the project.
   - Create a structured folder system to organize page object files, test cases, and test data.
2. **Implement POM**
   - Develop reusable page object classes for key pages, such as Home Page, Navigation Bar, and Interaction Pages (e.g., forms or components).
   - Define methods for interacting with elements like navigation links, input fields, buttons, and sliders.
   - Apply assertions to validate expected behaviors, such as form submission results and UI state changes.
3. **Write Test Cases**
   - Use the created page objects to write modular and reusable test cases for functionalities like navigation, interactions, and visual element validations.
4. **Run and Validate Tests**
   - Execute test cases using Cypress CLI or GUI to ensure all functionalities work as expected across different scenarios.

Key Features to Test

1. **Homepage Navigation**
   - Validate navigation links in the header and footer.
   - Login/signup
   - Test redirection from call-to-action buttons to specific sections or pages.
2. **Interactive Components**
   - Verify the functionality of sliders, toggles, or any dynamic UI components.
   - Test the responsiveness of interactive elements on different screen sizes.
3. **Add to cart & checkout process**

4. Validate error messages for required fields and success messages after correct submissions.
5. **Responsiveness and Layout**
    ○ Validate the layout and behavior of elements on different screen sizes (desktop, tablet, mobile).
6. **Content Validation**
    ○ Verify that static content like headers, descriptions, and labels is displayed accurately.
    ○ Ensure dynamic content like user interactions and data updates behave as expected.
7. **Footer Links**
    ○ Validate navigation links in the footer for redirection to appropriate pages (e.g., About Us, Terms & condition).

Documentation Tasks

1. **Test Plan**
2. **Test Scenarios and Test Cases**
3. **Bug Report**
4. **Summary Report**
5. **Mind Map**
    ○ Create a visual representation of testing workflows, focusing on navigation, interactive components, forms, and responsiveness.

Expected Outcome

- A modular and reusable Cypress test automation framework built using the POM design pattern.
- Comprehensive test coverage for key functionalities, including navigation, forms, and UI interactions.
- Detailed documentation of the testing process, including test plans, scenarios, bug reports, and summary reports.
- Improved user experience through validation of functionality, responsiveness, and usability.