

Phase-End Project: Automating the HSBC Banking Application Using Cypress

Project Overview:

In this phase-end project, the goal is to automate various functionalities on the HSBC India website (<https://www.hsbc.co.in/>) using the Cypress.io framework. As a Test Engineer at XYZ Corp, your task is to design automated test scenarios to validate the bank's web functionalities. These include tests for the login page, ATM search functionality, and credit card flow.

Tools Required:

- Node.js
- Java 1.8+
- Visual Studio Code
- Cypress (npm install Cypress)

Test Scenarios:

1. HSBC Login Test Scenario:

- **Objective:** Automate the login page functionality validation.

2. HSBC ATM Search Test Scenario:

- **Objective:** Automate the ATM and branch search functionality.

3. HSBC Credit Card Flow:

- **Objective:** Automate the credit card application flow and validation.

General Development Guidelines:

- Follow the **Page Object Model** (POM) design pattern to ensure maintainability and scalability of test cases.
- For locators, Xpath is preferred but other locators can be used as needed.
- Use **before()** to launch the application once for all tests.
- Use **fixture/example.json** for test data to avoid hard coding.
- Write reusable functions for common actions like login, searching for an ATM, or navigating through credit card options.

Conclusion:

By automating the HSBC Banking Application with Cypress, this project will help streamline the testing process, reduce manual effort, and ensure that critical functionalities such as login, ATM search, and credit card flows are robust and reliable.