

Week 3 – Automation Testing

Project Overview

This project contains automated test scripts for the ParaBank web application using Cypress, a modern end-to-end testing framework. The automation suite covers critical user flows including registration, login, dashboard navigation, and funds transfer operations.

Prerequisites

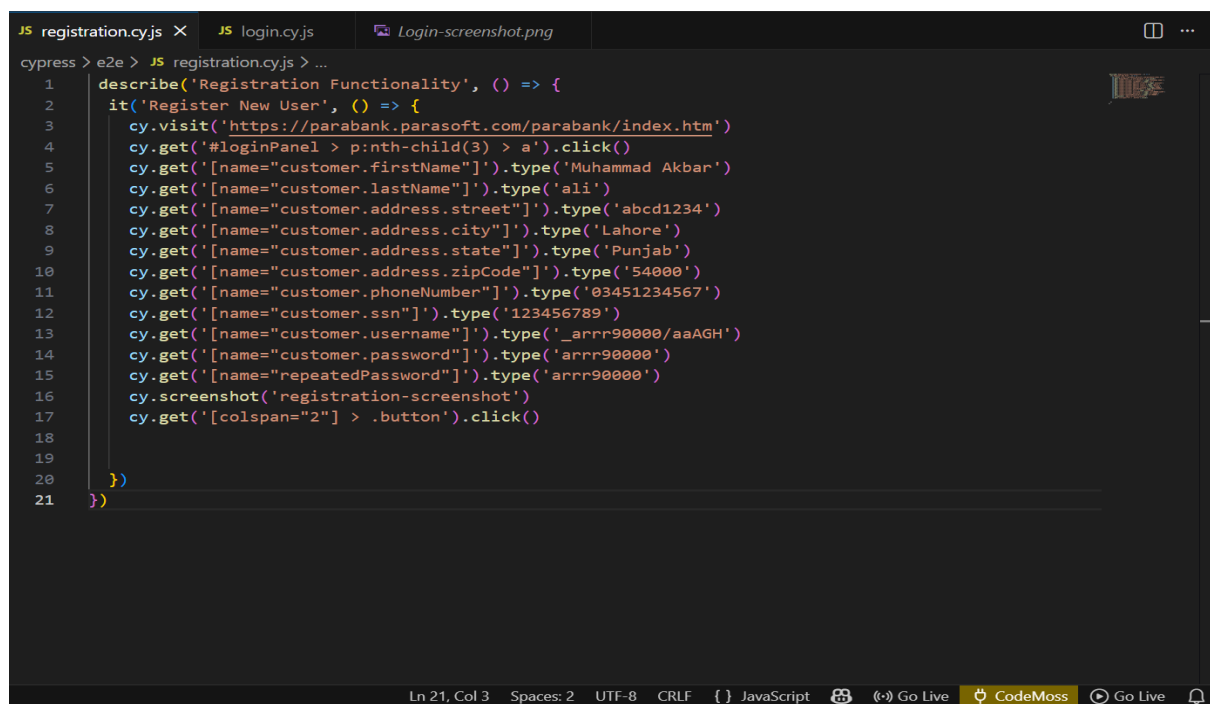
- Node.js (v16 or higher)
- npm or yarn package manager
- Modern web browser (Chrome, Firefox, or Edge)

Setup Cypress (Simple)

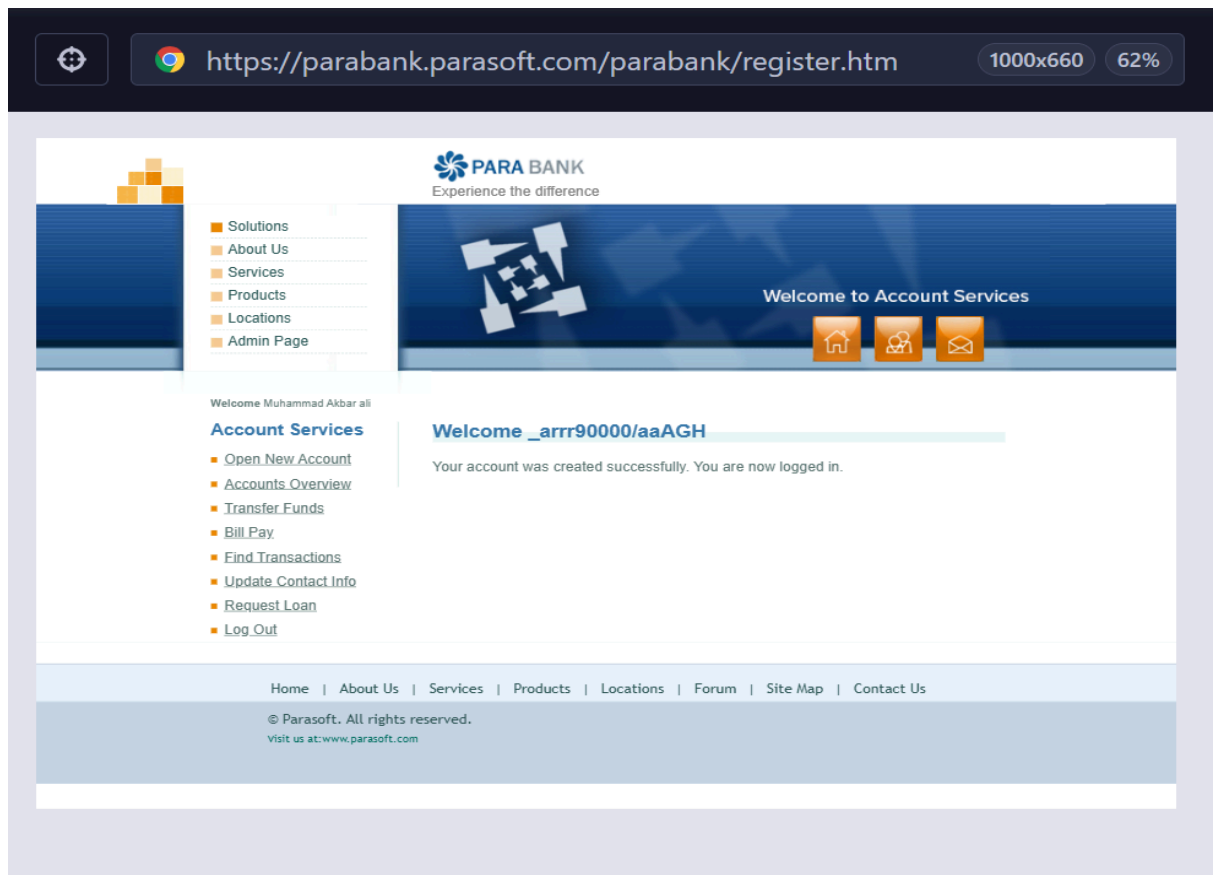
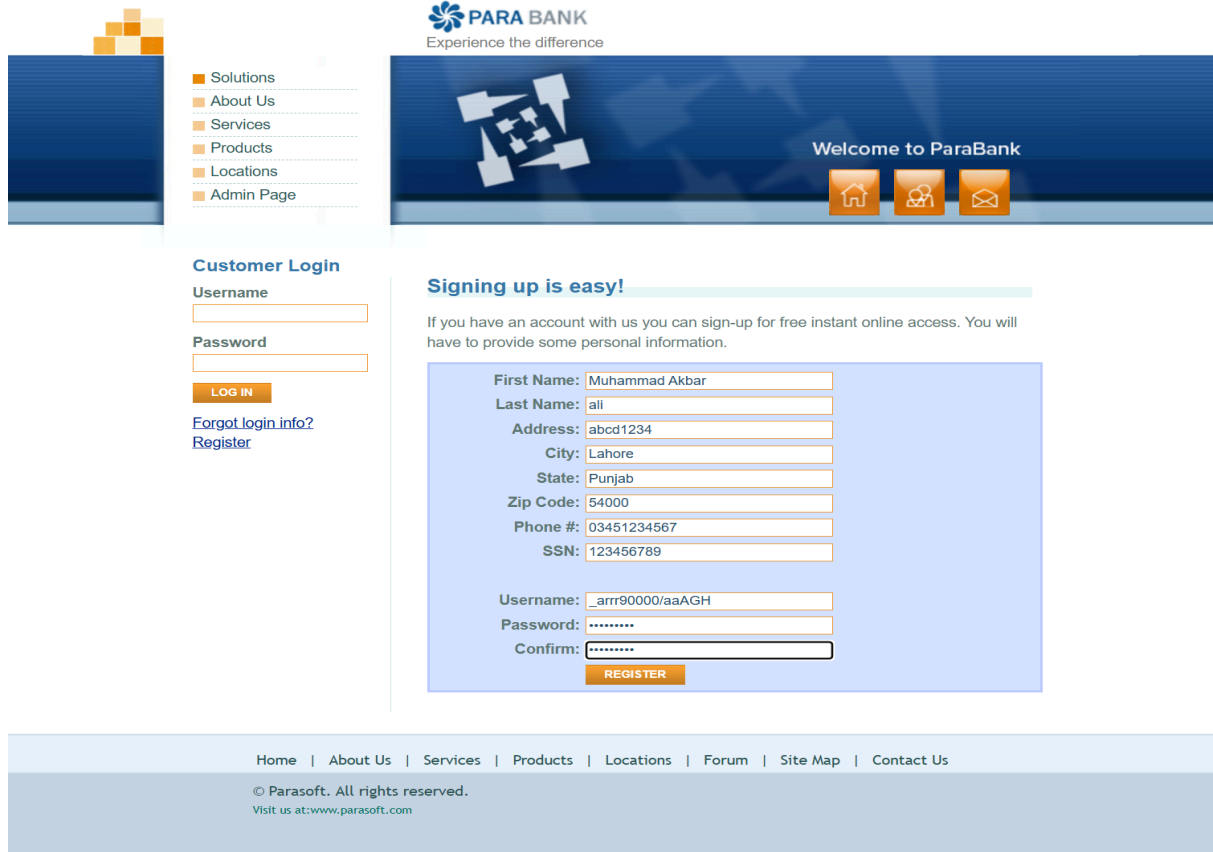
1. Install Node.js
2. Create project folder
3. Install Cypress
4. Open Cypress
5. Create test file inside
cypress/e2e/

file name: registration.cy.js

Automate Test Case 2 – User Registration Validation



```
JS registration.cy.js X JS login.cy.js Login-screenshot.png
cypress > e2e > JS registration.cy.js > ...
1 describe('Registration Functionality', () => {
2   it('Register New User', () => {
3     cy.visit('https://parabank.parasoft.com/parabank/index.htm')
4     cy.get('#loginPanel > p:nth-child(3) > a').click()
5     cy.get('[name="customer.firstName"]').type('Muhammad Akbar')
6     cy.get('[name="customer.lastName"]').type('ali')
7     cy.get('[name="customer.address.street"]').type('abcd1234')
8     cy.get('[name="customer.address.city"]').type('Lahore')
9     cy.get('[name="customer.address.state"]').type('Punjab')
10    cy.get('[name="customer.address.zipCode"]').type('54000')
11    cy.get('[name="customer.phoneNumber"]').type('03451234567')
12    cy.get('[name="customer.ssn"]').type('123456789')
13    cy.get('[name="customer.username"]').type('_arrr90000/aaAGH')
14    cy.get('[name="customer.password"]').type('arrr90000')
15    cy.get('[name="repeatedPassword"]').type('arrr90000')
16    cy.screenshot('registration-screenshot')
17    cy.get('[colspan="2"] > .button').click()
18
19
20  })
21 })
```



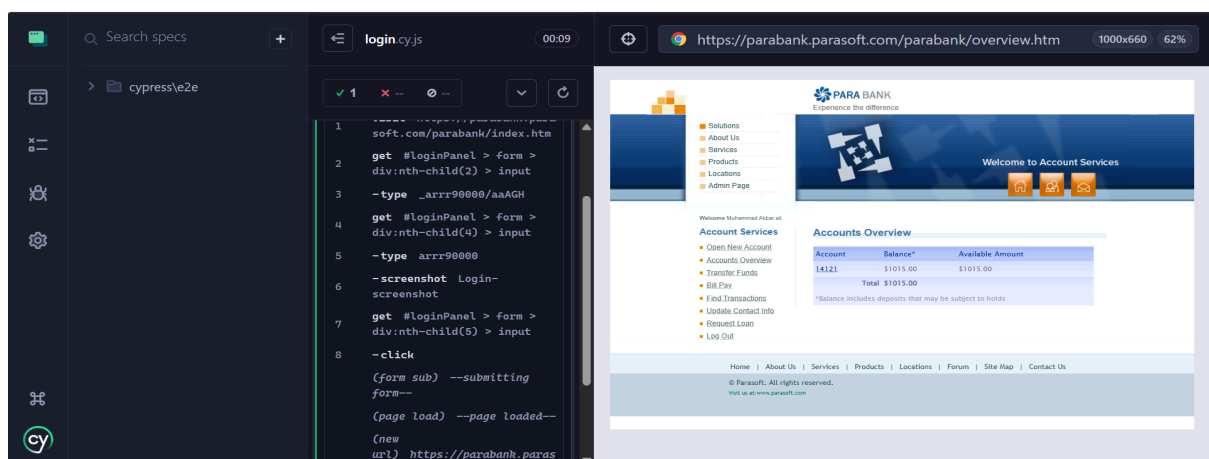
Automate Test Case 2 – Login Validation

```
cypress > e2e > JS login.cy.js > describe('Login Functionality') callback > it('Login Registered User') callback
```

```
1 describe('Login Functionality', () => {
2   it('Login Registered User', () => {
3     cy.visit('https://parabank.parasoft.com/parabank/index.htm')
4
5     //username
6     cy.get('#loginPanel > form > div:nth-child(2) > input').type('_arr90000/aaAGH')
7     cy.get('#loginPanel > form > div:nth-child(4) > input').type('arr90000')
8     cy.screenshot('Login-screenshot')
9     cy.get('#loginPanel > form > div:nth-child(5) > input').click();
10
11   })
12 })
```

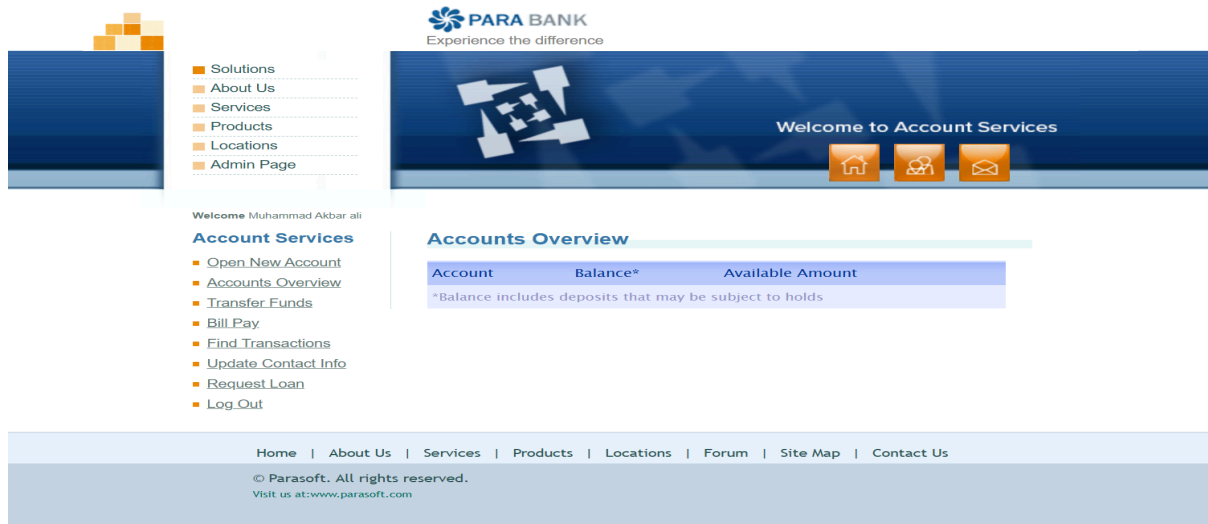


Chrome is being controlled by automated test software.



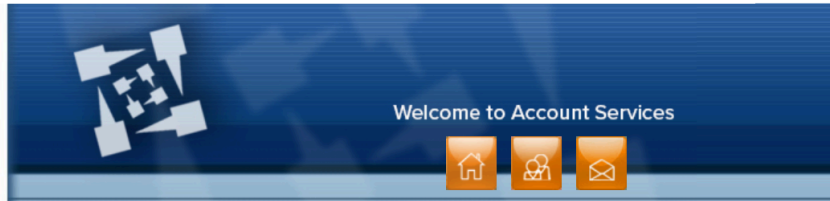
Automate Test Case 3 – Account Activity Date Filter Test

```
cypress > e2e > JS select.cy.js > ...
1   describe('Dropdown Functionality', () => {
2     it('Select Option from Dropdown', () => {
3       cy.visit('https://parabank.parasoft.com/parabank/index.htm')
4       // Open the static dropdown
5
6       cy.get('#loginPanel > form > div:nth-child(2) > input').type('_arr90000/aaAGH')
7       cy.get('#loginPanel > form > div:nth-child(4) > input').type('arr90000')
8       cy.get('#loginPanel > form > div:nth-child(5) > input').click();
9       cy.get('#accountTable > tbody > tr:nth-child(1) > td:nth-child(1) > a').click();
10      cy.get('#month').select(3)
11      cy.screenshot('select1-screenshot')
12      cy.get('#month').select('February')
13      cy.screenshot('select2-screenshot')
14
15    })
16  })
```





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- Services
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- Locations
- Admin Page



Welcome Muhammad Akbar ali

Account Services

- [Open New Account](#)
- [Accounts Overview](#)
- [Transfer Funds](#)
- [Bill Pay](#)
- [Find Transactions](#)
- [Update Contact Info](#)
- [Request Loan](#)
- [Log Out](#)

Account Details

Account Number: 15342
Account Type: CHECKING
Balance: \$1015.00
Available: \$1015.00

Account Activity

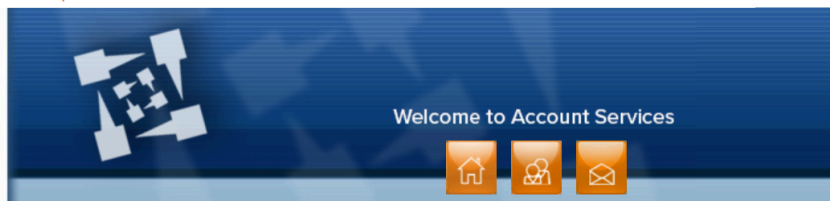
Activity Period:

Type:

No transactions found.



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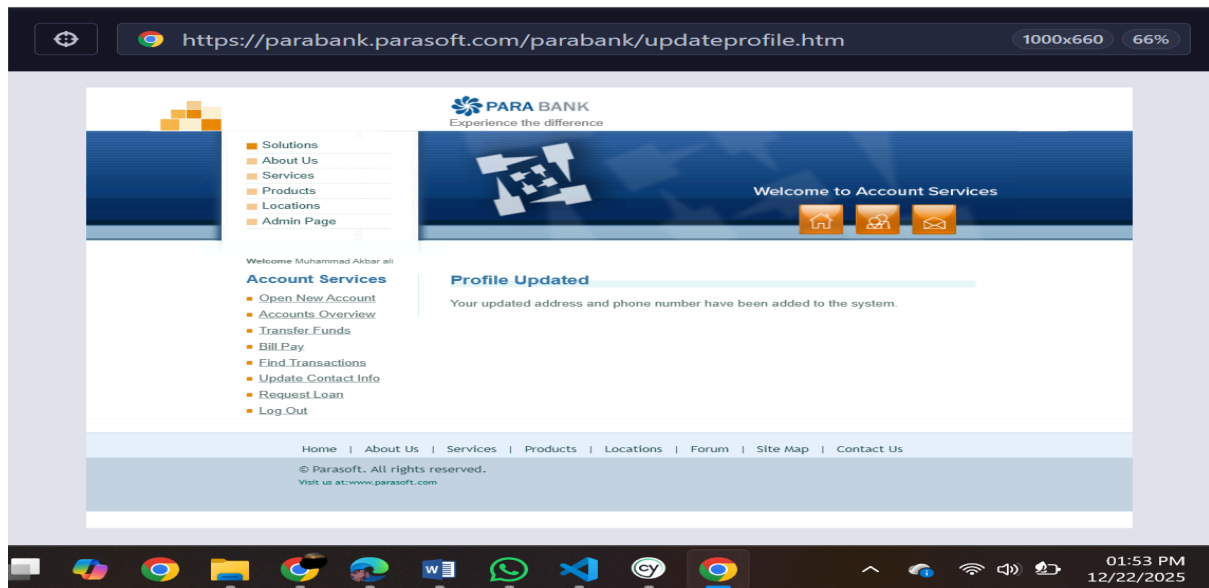
Type:

No transactions found.

Automate Test Case 4 – Update Contact Info Feature Test

```
cypress > e2e > JS UpdateContact.cy.js > describe('Dashboard Functionality Tests') callback > it('TC-DASH-001: Should navigate to Update Contact Info page', () => {
  1 describe('Dashboard Functionality Tests', () => {
  2
  3 // Login before each test to access dashboard
  4 beforeEach(() => {
  5   cy.visit('https://parabank.parasoft.com/parabank/index.htm')
  6
  7 // Login with your registered user
  8   cy.get('#loginPanel > form > div:nth-child(2) > input').type('_arr90000/aaAGH')
  9   cy.get('#loginPanel > form > div:nth-child(4) > input').type('arr90000')
 10   cy.get('#loginPanel > form > div:nth-child(5) > input').click()
 11
 12 // Wait for dashboard to load
 13   cy.wait(2000)
 14 })
 15
 16 it('TC-DASH-001: Should navigate to Update Contact Info page', () => {
 17 // Click Update Contact Info
 18   cy.contains('Update Contact Info').click()
 19   cy.screenshot('update-contact')
 20 // Verify Update Profile page
 21   cy.url().should('include', '/updateprofile.htm')
 22   cy.contains('Update Profile').should('be.visible')
 23
 24 // Verify form fields are pre-filled
 25   cy.get('input[id="customer.firstName"]').should('have.value')
 26   cy.get('input[id="customer.lastName"]').should('have.value')
 27   cy.get('input[id="customer.address.street"]').should('have.value')
 28   cy.get('input[id="customer.address.city"]').should('have.value')
 29   cy.get('input[id="customer.address.state"]').should('have.value')
 30   cy.get('input[id="customer.address.zipCode"]').should('have.value')
 31   cy.get('input[id="customer.phoneNumber"]').should('have.value')
 32
 33   cy.screenshot('update-contact-info')
 34   cy.log('Update Contact Info page accessible')
 35 })
 36 })
```





Automate Test Case 5 – Verify Funds Transfer

```

JS registration.cy.js  JS login.cy.js  JS select.cy.js  JS Verify DashboardElement.cy.js  JS UpdateContact.cy.js  JS TransferFunds.cy.js X
cypress > e2e > JS TransferFunds.cy.js > describe('Dashboard Functionality Tests') callback > it('TC-DASH-002: Should transfer funds successfully with valid amount')
1  describe('Dashboard Functionality Tests', () => {
2
3    // Login before each test to access dashboard
4    beforeEach(() => {
5      cy.visit('https://parabank.parasoft.com/parabank/index.htm')
6
7      // Login with your registered user
8      cy.get('#loginPanel > form > div:nth-child(2) > input').type('_arr90000/aaAGH')
9      cy.get('#loginPanel > form > div:nth-child(4) > input').type('arr90000')
10     cy.get('#loginPanel > form > div:nth-child(5) > input').click()
11
12   })
13
14   it('TC-DASH-002: Should transfer funds successfully with valid amount', () => {
15     // Navigate to Transfer Funds
16     cy.contains('Transfer Funds').click()
17
18     // Enter amount
19     cy.get('input[id="amount"]').clear().type('10')
20
21     // Select from account (first option)
22     cy.get('select[id="fromAccountId"]').select(0)
23
24     // Select to account (first option - if same account, it should still work or show error)
25     cy.get('select[id="toAccountId"]').select(0)
26
27     // Click Transfer
28     cy.get('input[value="Transfer"]').click()
29
30     // Verify success message
31     cy.contains('Transfer Complete!', { timeout: 10000 }).should('be.visible')
32
33     cy.screenshot('transfer-success')
34     cy.log('Funds transferred successfully')
35   })
36 })

```

