

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 })
```

Ln 21, Col 3 Spaces: 2 UTF-8 CRLF { } JavaScript Go Live Go Live



Customer Login

Username

Password

LOG IN

[Forgot login info?](#)

[Register](#)

Signing up is easy!

If you have an account with us you can sign-up for free instant online access. You will have to provide some personal information.

First Name:	Muhammad Akbar
Last Name:	ali
Address:	abcd1234
City:	Lahore
State:	Punjab
Zip Code:	54000
Phone #:	03451234567
SSN:	123456789

Username: _arr90000/aaAGH

Password:

Confirm:

REGISTER



Home | About Us | Services | Products | Locations | Forum | Site Map | Contact Us

1000x660 62%

Welcome Muhammad Akbar ali

Account Services

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

Welcome _arr90000/aaAGH

Your account was created successfully. You are now logged in.

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Visit us at: www.parasoft.com

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('_arrr90000/aaAGH')
  7       cy.get('#loginPanel > form > div:nth-child(4) > input').type('arrr90000')
  8       cy.screenshot('Login-screenshot')
  9       cy.get('#loginPanel > form > div:nth-child(5) > input').click();
 10     ]
 11   })
 12 })
```

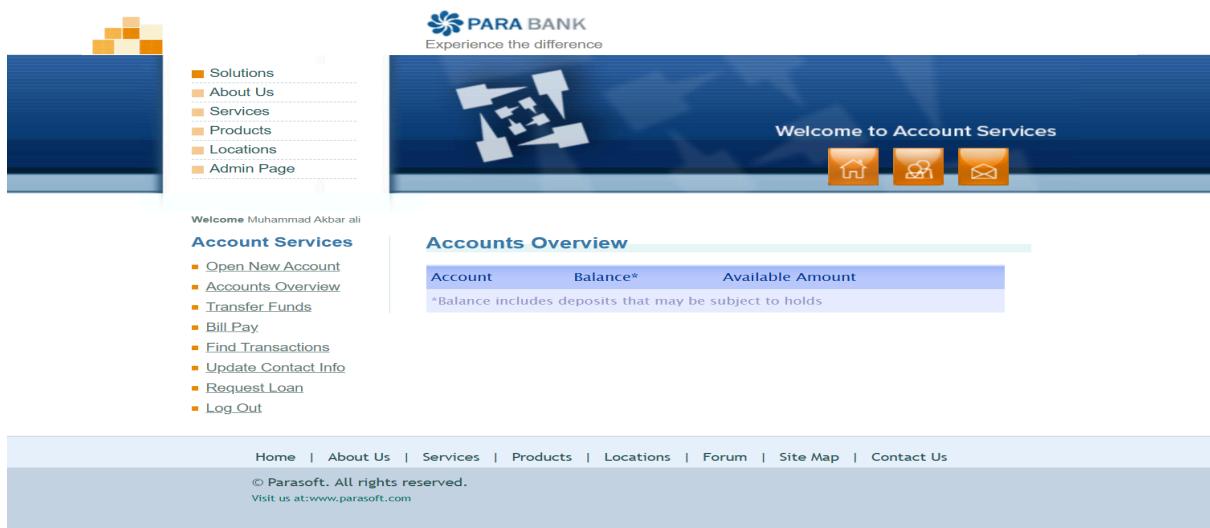
The screenshot displays the ParaBank website's homepage and customer login page. The top navigation bar includes links for Solutions, About Us, Services, Products, Locations, and Admin Page. The main header features the ParaBank logo and the tagline "Experience the difference". Below the header, there's a banner with a hand using an ATM and links for ATM Services (Withdraw Funds, Transfer Funds, Check Balances, Make Deposits) and Online Services (Bill Pay, Account History, Transfer Funds). A "Welcome to ParaBank" message is visible. The customer login form on the left contains fields for Username and Password, and a "LOG IN" button. Below the login form are links for "Forgot login info?" and "Register". At the bottom, a "LATEST NEWS" section highlights "ParaBank Is Now Re-Opened" and "New! Online Bill Pay" and "New! Online Account Transfers". The footer contains a menu with Home, About Us, Services, Products, Locations, Forum, Site Map, and Contact Us, along with a copyright notice for Parasoft.

Chrome is being controlled by automated test software.

The screenshot shows the Cypress test runner interface. On the left, the file tree shows a project structure with files like 'cypress/e2e/login.cy.js'. The central pane displays the test code for 'login.cy.js' and its execution status (1 test passed, 0 failed, 0 pending). To the right, a browser window shows the 'Accounts Overview' page of the ParaBank website. The page lists account details for user 'Muhammad Akbar Ali' with account number 14121, balance \$1015.00, and available amount \$1015.00. It also includes a note about balance subject to holds. The browser's address bar shows the URL 'https://parabank.parasoft.com/parabank/overview.htm'. The overall interface is dark-themed.

Automate Test Case 3 – Account Activity Date Filter Test

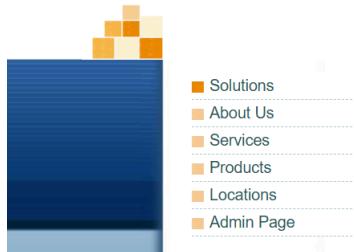
```
cypress > e2e > JS select.cy.js > ...
1  describe('Dropdown Functionality', () => {
2    it('Select Option from Dropdown', () => {
3      cy.visit('https://parabank.parasoft.com/parabank/index.htm')
4      // Open the static dropdown
5
6      cy.get('#loginPanel > form > div:nth-child(2) > input').type('_arr90000/aaAGH')
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 })
```



The screenshot shows the Para Bank login page. A dropdown menu is open on the left side, listing options: Solutions, About Us, Services, Products, Locations, and Admin Page. The 'Services' option is highlighted with a blue border. The main content area displays the Para Bank logo and slogan 'Experience the difference'. Below the logo, there's a large graphic of a stylized building or map. To the right, a 'Welcome to Account Services' message is displayed along with three orange navigation icons: a house, a person, and an envelope.



The screenshot shows the Para Bank account services page. At the top, there's a navigation bar with links to Home, About Us, Services, Products, Locations, Forum, Site Map, and Contact Us. Below the navigation, a copyright notice reads: '© Parasoft. All rights reserved. Visit us at: www.parasoft.com'. The main content area is titled 'Accounts Overview' and includes a table with columns for Account, Balance*, and Available Amount. A note below the table states: '*Balance includes deposits that may be subject to holds'. On the left, a sidebar lists account services: Open New Account, Accounts Overview, Transfer Funds, Bill Pay, Find Transactions, Update Contact Info, Request Loan, and Log Out. The 'Accounts Overview' link is highlighted with a blue border. The bottom of the page features a footer with the same navigation links and the copyright notice.



Welcome Muhammad Akbar ali

PARA BANK
Experience the difference

Welcome to Account Services

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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Welcome Muhammad Akbar ali

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Welcome to Account Services

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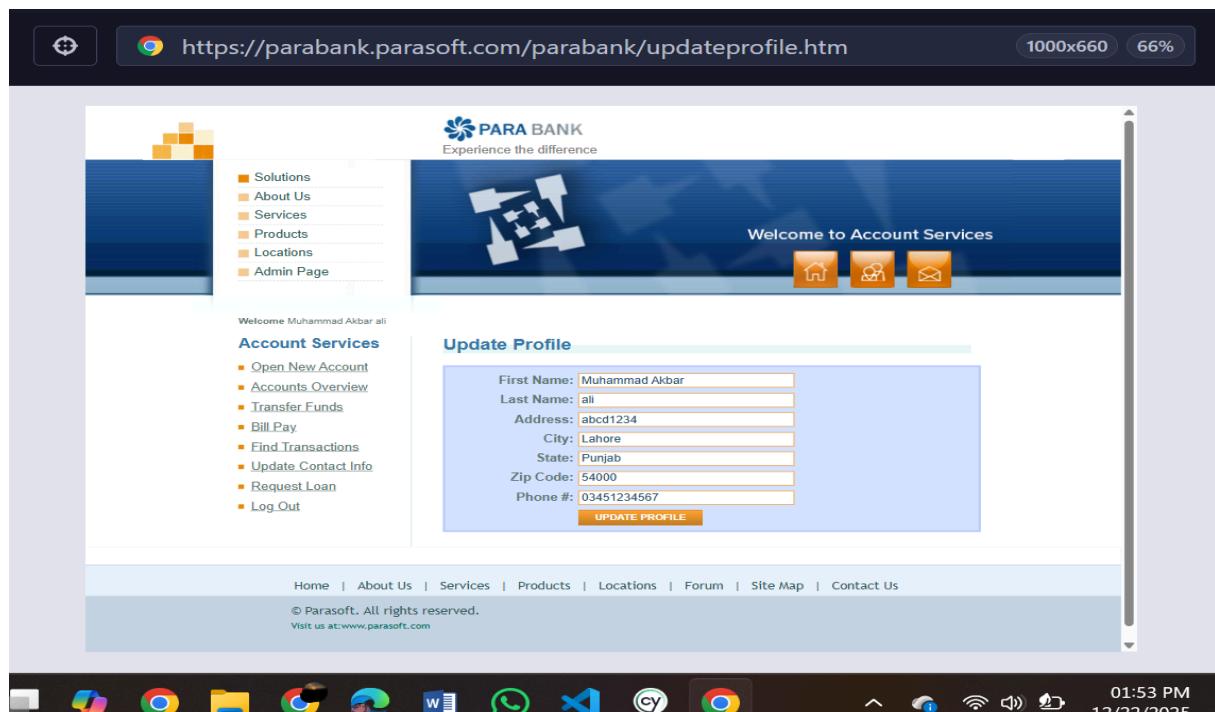
[Home](#) | [About Us](#) | [Services](#) | [Products](#) | [Locations](#) | [Forum](#) | [Site Map](#) | [Contact Us](#)

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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('_arrr90000/aaAGH')
  9       cy.get('#loginPanel > form > div:nth-child(4) > input').type('arrr90000')
 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})

```

