

1. Automate interactions with a webpage, focusing on window handling and navigating between them using Playwright

```
tests > Week4Assignment > TS AutomateWindow.spec.ts > test.only('automate window using Playwright') callback
1 import { test, expect } from '@playwright/test';
2 test.only('automate window using Playwright', async ({ context, page }) => {
3   // Step 1: Open the Salesforce login page
4   await page.goto("https://login.salesforce.com");
5   // Step 2: Login
6   await page.getByLabel('Username').fill('dilip@testleaf.com');
7   await page.getByLabel('Password').fill('Leaf@123');
8   await page.locator("#Login").click();
9   // Step 3: Wait for dashboard to load
10  await page.waitForTimeout(5000);
11  // Step 4: Click "Learn More" and wait for new window/tab using Promise.all
12  const [newPage] = await Promise.all([
13    context.waitForEvent('page'), // Wait for the new tab
14    page.locator("//button[contains(text(),'Learn More')]").click() // Trigger the tab
15  ]);
16  // Step 5: Ensure the new page is fully loaded
17  await newPage.waitForLoadState();
18  // Step 6: Capture and log the new window title
19  const popupTitle = await newPage.title();
20  console.log(`New Window Title: ${popupTitle}`);
21  // Step 7: Click the 'Confirm' button
22  await newPage.locator("//button[text()='Confirm']").click();
23  // Step 8: Wait again in case it triggers navigation
24  await newPage.waitForLoadState();
25  // Step 9: Capture final title and URL
26  const finalTitle = await newPage.title();
27  const finalURL = newPage.url();
28  console.log(`Final Title: ${finalTitle}`);
29  console.log(`Final URL: ${finalURL}`);
30  // Step 10: Assertions to validate page title and URL
31  expect(finalTitle).toContain("Salesforce");
32  expect(finalURL).toContain("salesforce");
33  });
```

```
1 passed (10.9s)
PS C:\Playwright-workspace\Playwright-Testleaf\PlaywrightJune2025\tests\Week4Assignment> npx playwright test AutomateWindow.spec.ts

Running 1 test using 1 worker

  ✓ 1 AutomateWindow.spec.ts:2:6 › automate window using Playwright (13.1s)
    New Window Title:
    Final Title: Service Cloud: AI-powered Customer Service Agent Console | Salesforce US
    Final URL: https://www.salesforce.com/service/cloud/?bc=HB
1 passed (14.3s)
PS C:\Playwright-workspace\Playwright-Testleaf\PlaywrightJune2025\tests\Week4Assignment> |
```

2. Task is to merge the Accounts created

```
tests > Week4Assignment > TS MergeCreatedAccounts.spec.ts > ...
1 import { test, expect } from '@playwright/test';
2 test('LeafTaps.com - Merge the Accounts created', async ({ page, context }) => {
3   // Step 1: Launch application
4   await page.goto('http://leafTaps.com/opentaps/control/main');
5   // Step 2: Login
6   await page.locator('#username').fill('DemoCSR2');
7   await page.locator('#password').fill('crmsfa');
8   await page.locator('.decorativeSubmit').click();
9   // Step 3: Navigate to CRM/SFA > Accounts > Merge Accounts
10  await page.locator('text=CRM/SFA').click();
11  await page.locator('//a[text()="Accounts"]').click();
12  await page.locator('//a[text()="Merge Accounts"]').click();
13  // ===== FROM Account =====
14  const [fromPopup] = await Promise.all
15  ([
16    context.waitForEvent('page'),
17    page.locator('//img[@alt="Lookup"])[1]').click() // First widget (From Account)
18  ]);
19  await fromPopup.waitForLoadState();
20  await fromPopup.locator('//a[@class="linktext"])[1]').click(); // Select first result
21  await fromPopup.close();
22  // ===== TO Account =====
23  const [toPopup] = await Promise.all
24  ([
25    context.waitForEvent('page'),
26    page.locator('//img[@alt="Lookup"])[2]').click() // Second widget (To Account)
27  ]);
28  await toPopup.waitForLoadState();
29  await toPopup.getByText(/^10165$/, { exact: true }).click();
30  await toPopup.close();
31  // Step 4: Click Merge
32  await page.locator('//a[text()="Merge"]').click();
33  // Step 5: Handle the confirmation alert
34  const dialog = await page.waitForEvent('dialog');
35  console.log('Alert message:', dialog.message());
36  console.log('Alert type:', dialog.type());
37  await dialog.accept();
```

```
38  console.log('Alert type:', dialog.type());
39  await dialog.accept();
40  // Step 6: Wait for navigation to complete
41  await page.waitForLoadState('load');
42  // Step 7 : Verify the title
43  await expect(page).toHaveTitle('Account Details | opentaps CRM');
44  });
```

PS C:\Playwright-workspace\Playwright-Testleaf\PlaywrightJune2025> npx playwright test MergeCreatedAccounts.spec.ts

```
Running 1 test using 1 worker
[chromium] > tests\Week4Assignment\MergeCreatedAccounts.spec.ts:2:5 > LeafTaps.com - Merge the Accounts created
Alert message: Are you sure?
Alert type: confirm
1 passed (16.5s)
```

Serving HTML report at http://localhost:9323. Press Ctrl+C to quit.

Leaftaps.com - Merge the Accounts created

Week4Assignment/MergeCreatedAccounts.spec.ts:2

15.2s

chromium

✓ Run

Test Steps

> ✓ Before Hooks	329ms
> ✓ Navigate to "/opentaps/control/main" — Week4Assignment/MergeCreatedAccounts.spec.ts:4	1.0s
> ✓ Fill "DemoCSR2" locator("#username") — Week4Assignment/MergeCreatedAccounts.spec.ts:6	42ms
> ✓ Fill "crmsfa" locator("#password") — Week4Assignment/MergeCreatedAccounts.spec.ts:7	23ms
> ✓ Click locator(".decorativeSubmit") — Week4Assignment/MergeCreatedAccounts.spec.ts:8	243ms
> ✓ Click locator("text=CRM/SFA") — Week4Assignment/MergeCreatedAccounts.spec.ts:10	407ms
> ✓ Click locator("//a[text()='Accounts']") — Week4Assignment/MergeCreatedAccounts.spec.ts:11	1.1s
> ✓ Click locator("//a[text()='Merge Accounts']") — Week4Assignment/MergeCreatedAccounts.spec.ts:12	518ms
> ✓ Wait for event "page" — Week4Assignment/MergeCreatedAccounts.spec.ts:16	468ms
> ✓ Click locator('xpath=//img[@alt="Lookup"]')[1]') — Week4Assignment/MergeCreatedAccounts.spec.ts:17	365ms
> ✓ Wait for load state "load" — Week4Assignment/MergeCreatedAccounts.spec.ts:19	347ms
> ✓ Click locator('xpath=//a[@class="linktext"]')[1]') — Week4Assignment/MergeCreatedAccounts.spec.ts:20	78ms
> ✓ Wait for event "page" — Week4Assignment/MergeCreatedAccounts.spec.ts:25	261ms
> ✓ Click locator('xpath=//img[@alt="Lookup"]')[2]') — Week4Assignment/MergeCreatedAccounts.spec.ts:26	83ms
> ✓ Wait for load state "load" — Week4Assignment/MergeCreatedAccounts.spec.ts:28	187ms
> ✓ Click getByText(/^10165\$/) — Week4Assignment/MergeCreatedAccounts.spec.ts:29	207ms
> ✓ Click locator("//a[text()='Merge']") — Week4Assignment/MergeCreatedAccounts.spec.ts:32	70ms
> ✓ Wait for event "dialog" — Week4Assignment/MergeCreatedAccounts.spec.ts:34	5.8s
> ✓ Accept dialog — Week4Assignment/MergeCreatedAccounts.spec.ts:37	4ms
> ✓ Wait for load state "load" — Week4Assignment/MergeCreatedAccounts.spec.ts:39	1ms
> ✓ Expect "toHaveTitle" — Week4Assignment/MergeCreatedAccounts.spec.ts:41	3.7s
> ✓ After Hooks	539ms

▼ Screenshots

The screenshot displays the Testleaf Accounts page. The top navigation bar includes links for CRM/SFA, Docs Wiki, eCommerce, and a user profile section with 'DemoCRM2', 'Profile', 'Shortcuts', and 'Logout'. A search bar is also present. The main navigation menu on the left lists 'My Home', 'Leads', 'Contacts', 'Accounts', 'Cases', 'Activities', 'Orders', and 'Reports'. The 'Accounts' section is currently active, showing a list of accounts with columns for 'Last Viewed', 'Sugtha332', 'Accounts', 'Post D (Mps)', 'Max K (Mps)', '30 RD (Test)', 'Jaghadan VM (TN)', and 'Jaghadan VM (TN)'. The 'Accounts' sidebar on the left contains links for 'My Team Accounts', 'Create Account', 'Find Accounts', 'Merge Accounts', 'Account Shortcuts', 'Create Order', 'Quotes', 'Create Account', 'Create Contact', 'Create Case', 'Create Lead', and 'Form Letters'. The main content area is titled 'Account Details' and shows the details for 'Sugtha332 (10105)'. The details are organized into sections: 'Account', 'Parent Account', 'Sources', 'Marketing Campaigns', 'Person Responsible For', 'Total of Sales per Year', 'Payments received 2025', 'Assign Team', 'Custom Fields', and 'Contact Information'. The 'Account' section includes fields for 'Account Name', 'Local Name', 'Annual Revenue', 'Industry', 'Ownership', 'SIC Code', 'Description', 'Important Note', and 'Classifications'. The 'Parent Account' section includes 'Parent Account', 'Site Name', 'Preferred Currency', 'Number Of Employees', and 'Ticker Symbol'. The 'Sources' section includes 'Sources', 'Employee, Employee, Employee', 'eCommerce Site Internal Campaign', 'Demo Sales Manager', 'Sales 2025 Sales 2024 Sales 2023 Sales 2022', and 'Payments received 2025'. The 'Marketing Campaigns' section includes 'Marketing Campaigns', 'eCommerce Site Internal Campaign', 'Demo Sales Manager', 'Sales 2025 Sales 2024 Sales 2023 Sales 2022', and 'Payments received 2025'. The 'Person Responsible For' section includes 'Person Responsible For', 'Sales 2025 Sales 2024 Sales 2023 Sales 2022', and 'Payments received 2025'. The 'Total of Sales per Year' section includes 'Total of Sales per Year', 'Sales 2025 Sales 2024 Sales 2023 Sales 2022', and 'Payments received 2025'. The 'Payments received 2025' section includes 'Payments received 2025', 'Sales 2025 Sales 2024 Sales 2023 Sales 2022', and 'Payments received 2025'. The 'Assign Team' section includes 'Assign Team', 'Demo Sales Team No. 1', and 'Assign'. The 'Custom Fields' section includes 'Custom Fields', 'Field', 'Value', and 'Create New'. The 'Contact Information' section includes 'Contact Information' and 'Create New'. The 'Form Letters' section includes 'Form Letter Template', 'Save User Instruction', 'Output', 'Text', and 'Generate Letter'.

CRM/SFA Docs Wiki eCommerce DemoCRM2 | Profile | Shortcuts | Logout

My Home | Leads | Contacts | Accounts | Cases | Activities | Orders | Reports

Last Viewed: Sugtha332 | Accounts | Post D (Mps) | Max K (Mps) | 30 RD (Test) | Jaghadan VM (TN) | Jaghadan VM (TN)

My Team Accounts
Create Account
Find Accounts
Merge Accounts

Account Shortcuts
Create Order
Quotes

Create Account
Create Contact
Create Case
Create Lead

Form Letters
Form Letter Template
Save User Instruction
Output
Text
Generate Letter

Account Details

Account

Account Name: Sugtha332 (10105)

Local Name: Annual Revenue: Industry: Ownership: SIC Code: Description: Selenium Automation Tester

Parent Account: Site Name: LeafTap Preferred Currency: USD Number Of Employees: 16 Ticker Symbol:

Sources: Employee, Employee, Employee

Marketing Campaigns: eCommerce Site Internal Campaign Demo Sales Manager

Person Responsible For: Sales 2025 Sales 2024 Sales 2023 Sales 2022

Total of Sales per Year: Sales 2025 Sales 2024 Sales 2023 Sales 2022

Payments received 2025: Sales 2025 Sales 2024 Sales 2023 Sales 2022

Assign Team: Demo Sales Team No. 1

Assign

Custom Fields

Field Value

Contact Information

No contact information on file

Create New

[screenshot](#)