

## MARATHON-1: Best Practices

To implement a Playwright test scenario for Salesforce that involves creating a Lead, converting it into an Opportunity, and then creating Chatter and linking the Lead, Contact, and Account, follow these best practices and steps:

**Test Scenario:** A sequence of real time user behaviour of Salesforce action.

1. Create Lead in Salesforce and then convert the Lead into an Opportunity
2. Create Chatter and linking the Lead, Contact and Account

### **Inputs:**

1. Test Scenario - steps document (with clear action and expected result)
2. Captured Video to supplement the document steps

### **Best Practices for Automation Script**

1. **Manual Execution:** Manually execute the scenario in Salesforce to understand the functionality and UI flow.

#### 2. **Selector/Locator Identification:**

- Prefer using unique selectors

- `id('#id')`
- `name('[name='value'])'`
- `class('.class')`

- Use strategies to handle multiple occurrences `page.locator('').first()`, `page.locator('').last()`, `page.locator('').nth(2)`, `page.locator('').filter({text})`,

- `attribute('[attr='value'])'` and CSS selectors/XPath for more complex selections.

3. **Note Method and Data:** While navigating manually, note the best methods and data inputs for automation.

#### 4. **Script Development:**

- Use comments to document test steps clearly.
- Adopt proper naming conventions for variables and log messages.
- Avoid using `setTimeout/waitFor`; instead, utilize Playwright's built-in wait mechanisms.
- Implement the test script incrementally, validating each segment before proceeding.

#### 5. **Debugging:**

- Use ``npx playwright test filename --debug`` to run and debug your script, stepping over functions to examine each line of code.

6. **Iterative Development:** After every successful debug session, code the next set of steps, and repeat the debug process.

7. **Cross-Browser Testing:** Ensure the test scenario works across different browsers supported by Playwright (e.g., Chromium, Firefox, and WebKit).

8. **Documentation and Sharing:** Document any issues encountered and their resolutions. Share the insights and best practices with the team to foster collective learning.