

Playwright Page Object Model Guide PDF Page

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PART 1: Page plan

Item	Decision
Final URL	https://uncodemy.com/playwright-page-object-model-guide-pdf
Intent (anti-cannibalisation)	PLAYWRIGHT POM IN TYPESCRIPT. The Selenium Java version is on a separate page.
Why not thin	Explainer-style sections, FAQs and cross-links make the page useful even without a download
Schema	WebSite, Organization, Breadcrumb, CollectionPage, FAQPage (only FAQs visible on the page). PDF <code>ItemList</code> provided commented, to enable after titles are final
Share image	https://uncodemy.com/image/logo-og.jpg for now; custom 1200x630 card recommended

PART 2: Page content (copy-paste ready)

SEO Title (49 chars):

Playwright Page Object Model Guide PDF | Uncodemy

Meta Description (129 chars):

Download the Playwright Page Object Model guide PDF from Uncodemy: locators, fixtures, assertions and a TypeScript login example.

H1: Playwright Page Object Model Guide PDF Downloads **Breadcrumb:** Home > Playwright Page Object Model Guide PDF **Final URL:** <https://uncodemy.com/playwright-page-object-model-guide-pdf>

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Quick Answer

This page offers Uncodemy's Playwright Page Object Model guide as a PDF download. Playwright is a modern browser automation framework with auto-waiting and user-facing locators. The guide shows how to organise tests with page objects in TypeScript, use fixtures to inject them and write reliable assertions.

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Playwright in brief

Playwright is an open-source end-to-end testing framework from Microsoft that drives Chromium, Firefox and WebKit browsers through a single API, with bindings for JavaScript and TypeScript, Python, Java and .NET. Two features shape how tests are written. First, auto-waiting: before performing an action, Playwright waits for the element to be attached, visible, stable and enabled, which removes most manual waits. Second, web-first assertions, such as `expect(locator).toBeVisible()`, which retry until the condition is met or a timeout expires. The built-in test runner adds parallel execution, fixtures, retries, tracing and HTML reports. This page uses the TypeScript test runner.

Playwright compared with Selenium at a glance

Aspect	Playwright	Selenium
Waiting	Auto-waiting on actions; retrying assertions	Explicit waits written by the tester
Locators	User-facing, such as role, label, text	By id, CSS, XPath and others
Test runner	Built in (Playwright Test)	Used with TestNG, JUnit, pytest and others
Browsers	Chromium, Firefox, WebKit bundled	Many browsers through drivers
Debugging	Trace viewer, codegen, inspector	Depends on tools and framework
Languages	TypeScript or JavaScript, Python, Java, .NET	Java, Python, C#, JavaScript, Ruby and more

Why page objects still help

Auto-waiting and good locators make Playwright tests more stable, but the maintenance argument for page objects is unchanged. If twenty tests each contain `page.getByLabel('Email').fill(...)`, a label change touches twenty files. A page class puts each locator and action in one place and lets tests read as user stories. Keep the pattern lightweight: Playwright locators are already descriptive, so page classes need only wrap repeated flows and elements.

A login page object in TypeScript

Illustrative structure for Playwright Test. Replace the URL path and labels with your application's.

```
// pages/login.page.ts
import { Page, Locator, expect } from '@playwright/test';

export class LoginPage {
  readonly page: Page;
  readonly email: Locator;
  readonly password: Locator;
  readonly submit: Locator;
  readonly error: Locator;

  constructor(page: Page) {
    this.page = page;
    this.email = page.getByLabel('Email');
    this.password = page.getByLabel('Password');
    this.submit = page.getByRole('button', { name: 'Log in' });
    this.error = page.getByRole('alert');
  }

  async goto() {
    await this.page.goto('/login');
  }

  async loginAs(user: string, pass: string) {
    await this.email.fill(user);
    await this.password.fill(pass);
    await this.submit.click();
  }

  async expectError(message: string) {
    await expect(this.error).toContainText(message);
  }
}
```

Using the page object in tests, with a fixture

A fixture creates the page object for each test, so tests receive it as a parameter.

```
// fixtures.ts
import { test as base } from '@playwright/test';
import { LoginPage } from '../pages/login.page';

export const test = base.extend<{ loginPage: LoginPage }>({
  loginPage: async ({ page }, use) => {
    const loginPage = new LoginPage(page);
    await loginPage.goto();
    await use(loginPage);
  },
});
export { expect } from '@playwright/test';

// tests/login.spec.ts
import { test, expect } from '../fixtures';

test('valid user reaches the dashboard', async ({ loginPage, page }) => {
  await loginPage.loginAs('test.user@example.com', process.env.TEST_PASSWORD!);
});
```

```

    await expect(page).toHaveURL(/dashboard/);
  });

  test('wrong password shows an error', async ({ loginPage }) => {
    await loginPage.loginAs('test.user@example.com', 'wrong-pass');
    await loginPage.expectError('Invalid credentials');
  });

```

Locator choices in Playwright

Locator	Example	Why
Role	<code>getByRole('button', { name: 'Log in' })</code>	Matches how users and assistive tools see the page
Label	<code>getByLabel('Email')</code>	Ties inputs to their visible labels
Text	<code>getByText('Welcome')</code>	Good for static content
Test id	<code>getByTestId('order-total')</code>	Stable when agreed with developers
CSS or XPath	<code>locator('.card >> nth=0')</code>	Last resort; more fragile

Good practice

- Prefer role, label and test-id locators over CSS and XPath.
- Use web-first assertions that retry, not manual checks of values read once.
- Keep page objects thin; do not duplicate Playwright's own waiting logic.
- Isolate tests: each test gets a fresh browser context, so avoid depending on other tests.
- Authenticate once through a setup step and reuse stored state where appropriate.
- Enable traces on first retry in CI to diagnose failures.

Running in CI

Playwright Test runs headless by default and supports sharding tests across machines, retries, and artifacts such as screenshots, videos and traces. In a pipeline, install the browsers with the Playwright install command, run the tests and upload the HTML report and traces. Store credentials as secrets and pass them through environment variables, as in the example above. Check the official Playwright documentation for the exact commands and current options for your version.

Common mistakes

- **Adding manual sleeps** instead of relying on auto-waiting and assertions.
- **Assertions that read a value once** instead of using retrying expect.
- **Over-engineered page objects** that wrap every single locator.
- **Shared state between tests** causing order-dependent failures.
- **Hard-coded credentials.**

Useful Playwright config settings

A starting configuration; check the current Playwright documentation for exact options.

```

// playwright.config.ts
import { defineConfig } from '@playwright/test';

export default defineConfig({
  testDir: './tests',
  retries: process.env.CI ? 1 : 0,
  use: {
    baseURL: process.env.BASE_URL || 'https://example.com',
    trace: 'on-first-retry',
    screenshot: 'only-on-failure',
  },
  reporter: [['html', { open: 'never' }]],
});

```

Quick checklist

- Locators use roles, labels or test ids.
- No manual sleeps.
- Each test is independent.
- Secrets come from environment variables.
- Traces and reports are saved in CI.

Related Uncodemy resources

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- [Automation Testing CI/CD Guide PDF](#)
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Frequently Asked Questions

What is the Page Object Model in Playwright?

It is a pattern where each page or component is a class holding locators and actions, so tests stay readable and changes to the UI are fixed in one place.

Do I need POM if Playwright has auto-waiting?

Auto-waiting reduces flakiness but not duplication. Page objects still centralise locators and repeated flows, though they can stay lightweight.

What are Playwright fixtures?

Fixtures set up the objects a test needs, such as page objects or authenticated contexts, and pass them into the test function.

What are the recommended Playwright locators?

User-facing locators such as getByRole, getByLabel, getByText and getByTestId are preferred over CSS or XPath.

Is Playwright better than Selenium?

It depends on the team. Playwright offers built-in waiting, a test runner and tracing, while Selenium has a long history, broad language and browser support and a large job market. Many teams learn both.

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