



PDF STUDY MATERIAL • UNCODEMY

Playwright Automation Framework

Notes, roadmaps and practice material, curated by the Uncodemy trainer team.



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Quick answer



A Playwright framework organises tests, page objects, fixtures, configuration, reporting and CI so that a suite stays maintainable as it grows. A clear structure and independent tests matter more than the number of tests.



Clear concepts

Short, plain-language explanations



Hands-on practice

Examples and exercises to try yourself



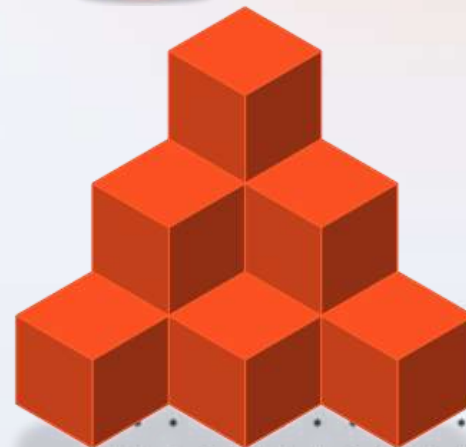
Job-focused prep

Questions and checklists for interviews

What is a test automation framework?



A framework is the structure around your tests: where files live, how browsers are configured, how test data and login are handled, and how results are reported. Playwright's test runner already provides much of this, including parallel runs, retries and reports. Your job is to add a clean layout and reusable pieces so tests stay short and readable.



A typical project layout

Folder or file	Purpose
tests/	Test files grouped by feature
pages/	Page Object classes: locators and actions per page
fixtures/	Reusable setup such as a logged-in page
utils/ and data/	Helpers and test data
playwright.config	Browsers (projects), retries, workers, reporter, trace settings, base URL

Key configuration choices

Setting	Why it matters
Projects	Run the same tests on Chromium, Firefox and WebKit
Retries	Limit retries so real failures are not hidden
Workers	Parallel execution; tests must be independent
Trace on first retry	Collect traces only when needed, to debug failures
Base URL and environments	Switch between test environments without code changes

Design principles



Each test sets up and cleans its own data.



Keep assertions in tests, locators and actions in page objects.



Prefer role and test-id locators.



Reuse login through a saved authentication state rather than logging in every...



Run the suite in CI on every change.

Common mistakes



Over-engineering early: start simple, refactor as patterns appear.



Tests that depend on order.



Huge page objects: split by component.



Ignoring flaky tests: investigate the cause instead of adding retries.

How to use these PDFs



STEP 1

Read the roadmap

Start at the stage that matches your level.



STEP 2

Practise each topic

Try it yourself instead of only reading.



STEP 3

Revise key concepts

Use the tables before an interview or exam.



STEP 4

Move to the next stage

Go on when you can explain this one in your own words.

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Frequently asked questions



What is a Playwright automation framework?

It is the structure around Playwright tests: folder layout, page objects, fixtures, configuration, reporting and CI, so a test suite stays maintainable.



What is the Page Object Model in Playwright?

The Page Object Model puts the locators and actions of each page in a class, so tests call readable methods and locator changes are made in one place.



What are fixtures in Playwright?

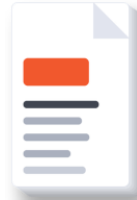
Fixtures are reusable setup and teardown that Playwright passes into tests, such as an authenticated page, so tests do not repeat the same steps.

Related UnCodemy PDF resources



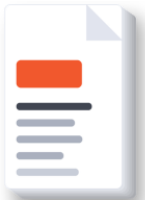
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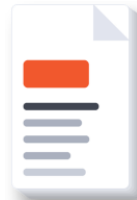
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