

ARCHITECTING
YOUR
BUSINESS





IT ARCHITECTURE



е

Let's connect!



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Learn how to build clean, scalable, and maintainable frontend test suites



Too much boilerplate

Duplicated logic makes tests harder to maintain and slower to write



Fragile tests

Tightly coupled tests break easily when the UI changes



Low reusability

Without modular design, tests are harder to extend and adapt

OUR LEARNING PATH:



Refresh your knowledge about the Playwright Syntax and structure

Learn how to use fixtures for page objects and remove unnecessary lines of code in your test to make it more readable

Syncing up: Write a Exercise: Create first fixtures



If not already done, prepare your machine to be ready for the workshop

Syncing up: Page Object Models

Refresh your knowledge about the Page Object Model and how it is implemented with Playwright Exercise 4: Apply your knowledge

With your new knowledge, create a new test.



Setup Instructions, Slides and Exercises:



https://github.com/SixDollarMan/playwrigh
t-fixture-workshop/

git checkout workshop/dev-day-2025



Turn off CoPilot please (for a better learning experience)

Case Study

Writing tests for XYZ Bank

Scenario

 We are developing tests for a new banking software. The software is still in development, we didn't start implementing tests in the beginning, so the goal is to reduce technical debt.

Disclaimer:

- Example app not perfect for state-of-the-art selectors
- We will need an explicit wait on one point

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Syncing up: Playwright Syntax

 Open exercises/exercise1.md and follow the instructions



The Page Object Model

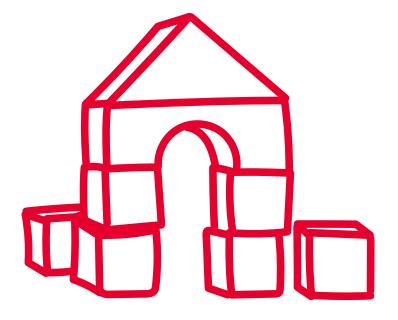
Encapsulating UI interactions into reusable objects

Benefits

- Improves readability, maintainability and reusability
- Reduces duplication in test logic

Limitations:

- Can still involve redundant setup logic
- There are possibilities for even better readability like BDD



The Page Object Model

Make tests more human readable

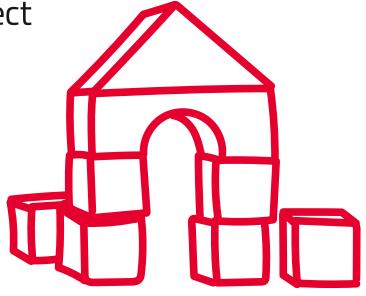
How to achieve this

Implement page logic as functions into the page object

Explicitly name them after their task

Examples:

- await loginPage.loginAs('superadmin')
- await checkoutPage.proceedToPayment()



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Syncing up: Page Object Model

 Open exercises/exercise2.md and follow the instructions





Coffee break

Playwright Fixtures

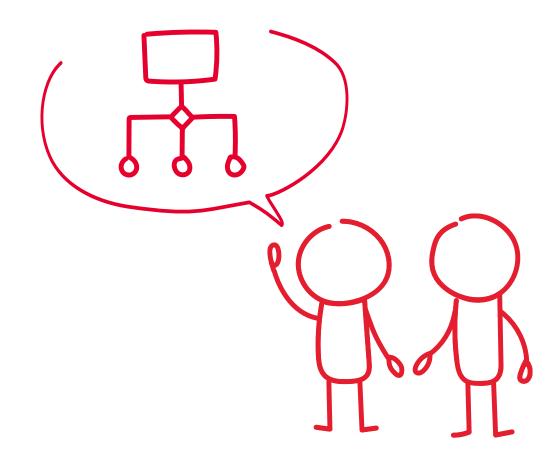
Structured way to manage test setup and teardown logic

Benefits

- Eliminates redundant setup logic
- Enhances test isolation
- Improves resource management

Limitations:

Risk of unnecessary complexity



Playwright Fixtures

Combining Fixtures with Page Object Model

How it works

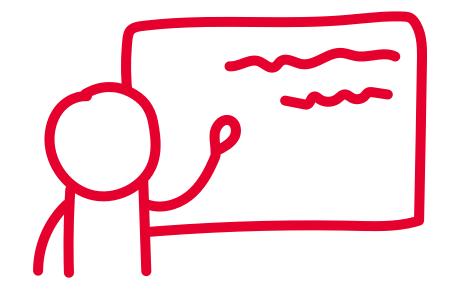
- Use fixtures to create modular, dependency-injected Page Objects
- Simplify test setup

Key benefits:

- Reduces boilerplate code
- Enhances maintainability



Fixture Demo



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Create page object fixtures

 Open exercises/exercise3.md and follow the instructions



Fixture Scopes

Providing the right fixture at the right time

Two different scopes

- test-scoped fixtures: ensuring isolation between tests
- worker-scoped fixtures: sharing resources efficiently

Usage:

• Which use case do you see for the different scopes in our case study?

Fixture Learnings

Dos and Don'ts



- Use test scope for isolation
- Use worker scope for efficiency
- Keep fixtures leightweight
- Make use of the auto teardown

Documentation!

Fixture Learnings

Dos and Don'ts



- Avoid global state in test-scoped fixtures
- Don't misuse worker scope for UI states
- Don't overcomplicate
- Don't ignore test parallelization

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Create page object fixtures

 Open exercises/exercise4.md and follow the instructions



Final question



What did you take out of this workshop?

Thank you! Questions?



I appreciate your feedback!



