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# Introduction to Playwright

Master web testing effortlessly with Playwright!

DEFINITION

Playwright is an open-source automation library for testing web applications across different browsers. It allows developers to write scripts that simulate user interactions for testing purposes.

KEY CONCEPTS

Cross-browser Testing

Playwright supports multiple browsers like Chrome, Firefox, and Safari, ensuring consistent testing.

Headless Mode

Run tests without a graphical user interface, speeding up execution and resource usage.

Auto-waiting

Playwright automatically waits for elements to be ready before interacting, reducing flaky tests.

Selectors

Use various methods like CSS or XPath to identify elements on a web page for interaction.

Test Fixtures

Set up reusable test environments and configurations to streamline test execution.

EXAMPLES

```
→ await page.click('button#submit');
→ const title = await page.title();
→ await
page.fill('input[name="username"]',
'testuser');
```

MEMORY TIPS

- ★ Remember 'Playwright' as your 'play' in 'writing' tests.
- ★ Think of 'headless' as 'no head' - no UI to slow you down.
- ★ Use 'selectors' like a 'detective' finding clues on a web page.

COMMON MISTAKES

- ✗ Forgetting to wait for elements, leading to test failures.
- ✗ Using incorrect selectors that do not match the DOM structure.
- ✗ Neglecting to run tests in all supported browsers.

QUICK RECAP

Playwright is a powerful tool for automating web application testing across various browsers. It simplifies the testing process with features like auto-waiting and headless mode, making it easier to create reliable tests.