ONE PAGE SUMMARY

IT & Software › QA Automation › Playwright

# 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 tests in a simple and efficient way.

## KEY CONCEPTS

### Cross-browser Testing

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

### Headless Mode

Tests can run in headless mode, meaning browsers operate without a graphical user interface, speeding up the testing process.

### Auto-waiting

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

### API Testing

In addition to UI testing, Playwright can also be used for testing APIs, enhancing overall test coverage.

### Multiple Contexts

Playwright allows the creation of multiple browser contexts, enabling parallel testing of different scenarios.

## EXAMPLES

→ Launch a browser and navigate to a URL.

→ Fill out a form and submit it.

→ Take a screenshot of a webpage.

## MEMORY TIPS

★ Think of 'Playwright' as a 'play' for web testing.

★ Remember 'headless' as 'no head, no fuss' for faster tests.

★ Associate 'auto-waiting' with 'no more waiting around' for elements.

## COMMON MISTAKES

✗ Not using the correct selectors, leading to test failures.

✗ Forgetting to close browser instances, causing resource leaks.

✗ Neglecting to handle asynchronous operations, resulting in timing issues.

## QUICK RECAP

Playwright is a powerful tool for automating web application testing across multiple browsers. It simplifies the testing process with features like auto-waiting and headless mode, making it essential for modern QA practices.