Playwright Glossary - Questions & Answers

# Basics

* Q: What is Playwright?

A: Playwright is an open-source automation framework for web testing created by Microsoft.

* Q: Which browsers does Playwright support?

A: It supports Chromium, Firefox, and WebKit.

* Q: Is Playwright free?

A: Yes, Playwright is open-source and free to use.

* Q: What programming languages does Playwright support?

A: It supports JavaScript, TypeScript, Python, Java, and .NET.

* Q: What is the difference between Playwright and Selenium?

A: Playwright is faster, modern, and supports multiple contexts and tabs easily.

# Architecture

* Q: What is the Playwright Driver?

A: The component that communicates with the browser to execute commands.

* Q: What protocol does Playwright use?

A: It uses browser-specific protocols like Chrome DevTools Protocol.

* Q: What is a Browser Context?

A: A browser instance that allows isolated sessions for testing multiple users.

* Q: What are Selectors in Playwright?

A: Selectors are used to locate elements, such as CSS, XPath, or text-based locators.

* Q: What is Playwright Inspector?

A: A debugging tool to inspect selectors and watch test execution.

# Features

* Q: What is Auto-waiting in Playwright?

A: Playwright automatically waits for elements to be ready before interacting.

* Q: What is Tracing in Playwright?

A: It records test execution details for debugging with screenshots and logs.

* Q: What is Codegen in Playwright?

A: A feature that generates test code by recording user actions.

* Q: Does Playwright support API Testing?

A: Yes, Playwright provides built-in APIs for HTTP testing.

* Q: Does Playwright support Mobile Emulation?

A: Yes, it can emulate devices with specific screen sizes and user agents.

# Test Design

* Q: What is Page Object Model in Playwright?

A: A design pattern to organize test code for reusability and readability.

* Q: What are Assertions in Playwright?

A: Checks that confirm if the test result matches the expected outcome.

* Q: What is Parallel Testing in Playwright?

A: Running multiple tests simultaneously to save time.

* Q: What is Test Isolation?

A: Each test runs in a fresh environment, avoiding shared state issues.

* Q: What is Test Fixture?

A: Reusable setup and teardown logic for Playwright tests.

# Advanced

* Q: Can Playwright handle multiple tabs?

A: Yes, Playwright supports multiple pages and tabs in one test.

* Q: What is Network Interception in Playwright?

A: It allows modifying or mocking network requests and responses.

* Q: What is Visual Comparison in Playwright?

A: It compares screenshots to check for UI changes.

* Q: What is Headless Mode in Playwright?

A: Running tests without a browser UI, useful for faster CI/CD pipelines.

* Q: What is Playwright Test Runner?

A: A built-in runner for managing and executing Playwright tests.

* Q26: Placeholder question about Playwright

A26: Placeholder answer for Q26

* Q27: Placeholder question about Playwright

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* Q28: Placeholder question about Playwright

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