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Introduction to Selenium

Master Selenium for Effective QA Automation Testing!

DEFINITION

> Selenium is an open-source tool for automating web applications for testing purposes. It allows testers to write scripts in various programming languages to control web browsers.

KEY CONCEPTS

WebDriver

WebDriver is the core component of Selenium that allows you to interact with web browsers directly.

Selenium IDE

Selenium IDE is a browser extension that enables users to record and playback tests without programming knowledge.

Test Scripts

Test scripts are written in programming languages like Java, Python, or C# to automate browser actions.

Locators

Locators are strategies to find HTML elements on a web page, such as ID, name, or XPath.

Cross-Browser Testing

Selenium supports testing across multiple browsers, ensuring web applications work consistently everywhere.

EXAMPLES

→ Open a browser and navigate to a URL.

→ Click a button and verify the resulting page.

→ Fill out a form and submit it automatically.

MEMORY TIPS

★ Think of 'Selenium' as 'Selene' the moon goddess, illuminating your path to automated testing.

★ Remember 'WebDriver' as your personal chauffeur for web browsers.

★ Use 'IDE' as 'Instant Development Environment' for quick test creation.

COMMON MISTAKES

✗ Neglecting to wait for elements to load before interacting with them.

✗ Using incorrect locators that fail to identify web elements.

✗ Overlooking browser compatibility issues during testing.

QUICK RECAP

Selenium is a powerful tool for automating web application testing. Understanding its components like WebDriver and locators is crucial for effective test script creation.