

# Microsoft Playwright



## e-Learning Course

Automate browser testing with ease.  
Master Microsoft Playwright and boost your testing efficiency

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# COURSE MODULES

## Module 1: Introduction to Playwright

- What is Playwright?
- Playwright vs. Selenium vs. Cypress
- Supported Browsers and Platforms
- Installing Playwright
- Setting Up Your First Playwright Project



## Module 2: Playwright Fundamentals

- Understanding Playwright Architecture
- Writing Your First Test Script
- Running Tests in Different Browsers (Chromium, Firefox, WebKit)
- Headless vs. Headed Mode
- Debugging Playwright Tests

## Module 3: Locating Elements

- Understanding Selectors in Playwright
- Using CSS, XPath, and Text Selectors
- Best Practices for Locating Elements
- Handling Dynamic Elements

## Module 4: Interacting with Web Elements

- Clicking and Typing
- Filling Forms and Handling Input Fields
- Working with Dropdowns, Checkboxes, and Radio Buttons
- Handling Mouse and Keyboard Events

## **Module 5: Advanced Interactions**

- Handling Pop-ups and Alerts
- Working with Frames and iFrames
- Dealing with Multiple Browser Tabs and Windows
- Handling File Uploads and Downloads

## **Module 6: Assertions and Test Frameworks**

- Using Playwright's Built-in Assertions
- Integrating Playwright with Jest, Mocha, and NUnit
- Writing Custom Assertions
- Parallel and Sequential Test Execution

## **Module 7: Handling APIs and Network Requests**

- Intercepting and Mocking API Requests
- Modifying Request and Response Data
- Capturing and Analyzing Network Traffic

## **Module 8: Visual and Accessibility Testing**

- Screenshot and Video Capture
- Visual Regression Testing with Playwright
- Accessibility Testing Best Practices

## **Module 9: Playwright Test Runner and Reporting**

- Introduction to Playwright Test Runner
- Configuring Playwright.config.ts
- Generating and Customizing Test Reports
- Running Tests in CI/CD Pipelines (GitHub Actions, Jenkins)

## **Module 10: Performance Testing with Playwright**

- Measuring Page Load Time
- Analyzing Performance Metrics
- Automating Lighthouse Reports

## **Module 11: Debugging and Troubleshooting**

- Debugging with Playwright Inspector
- Using Trace Viewer for Debugging
- Common Playwright Issues and Fixes

## **Module 12: Best Practices and Optimization**

- Organizing Test Suites Efficiently
- Reducing Flakiness in Tests
- Playwright Best Practices

