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Microsoft Playwright training: Automate your web browser tests

2 days (14 hours)

Presentation

Our Microsoft Playwright training course enables developers to improve their skills on Microsoft's innovative tool for automating web browser tests.

This course will enable you to create, customize and optimize test scripts for interactive web applications on different browsers and devices.

This training course will enable you to improve the quality and reliability of your web applications through advanced testing strategies. You'll be able to quickly create new tests, interact with your application as a real user would, and check that everything is working as expected.

This course will introduce the latest features and functions available in Playwright.

Objectives

- Understand Playwright's basic and advanced features
- Create and customize test scripts for different user interactions
- Master the use of the Playwright API to automate testing on different browsers and devices
- Implement best practices for writing robust and reliable tests

Target audience

- Developers
- QA testers

- Test automation engineers

Prerequisites

- Experience with JavaScript and asynchronous programming
- Basic knowledge of automated testing would be a plus
- Test My Knowledge

Our Microsoft Wright training program

Introduction to Microsoft Playwright

- Introducing Microsoft Playwright
- Playwright's advantages over the competition
- Installing Playwright
- Support for various browsers (Chromium, Firefox, WebKit)
- Introducing the Playwright API
- How do you run your Playwright test in parallel or in series?
- Basic syntax
- Introduction to browser automation with Playwright

Web page elements

- Elements on the page
  - CSS/XPath selectors
- Interaction with page elements (click, type, read content, etc.)
- Waiting for elements and content
- Form input handling (type, check, uncheck, select, etc.)
- Screenshot and video of a page
- Page event management (navigation, dialog, etc.)
- Working with nested frames

Advanced navigation and session management

- Multiple page navigation
- Tab and window management
- Cookie and session management
- Manage basic authentication and HTTP requests
- File download and upload management
- DOM manipulation via client-side script execution
- Use of incognito contexts

Test with Playwright

- Introducing the Playwright test tool
- Writing basic tests
- Test organization (test suites, hooks, etc.)
- Assertion management
- Managing failures and errors
- Generate and analyze test reports
- Debugging techniques in Playwright

Playwright in production

- Introducing a CI/CD environment with Playwright
- Configuration for different environments (local, preprod, prod)
- Best practices for performance and reliability
- Production test monitoring
- Handling common problems and troubleshooting
- Summary of Playwright's advanced functions
- Future prospects and Playwright updates

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.