



NEXT

IT CAREER

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Playwright Automation with **AI Training**



Playwright Automation



6TH Floor, Nilgiri Block,
ADITYA ENCLAVE,
604/B, Kumar Basti,
Ameerpet, Hyderabad,
Telangana 500016



contact@nextitcareer.com



+91-7995138210
+91-7013123485



About Next IT Career

Next IT Career Best Software Coaching Center in Hyderabad Corporate training is a function of human resource management that aims to provide the organization's employees with the knowledge and skills required to be successful. In turn, the growth of employees also contributes to the success of the business. In recent years, its also seen as a long-term strategic assignment rather than a cost center for the organization. The majority of companies have embraced 'continual learning' in it to promote employee growth both professionally and personally and acquire a highly skilled workforce as a result.



Corporate Training



Classroom Training



Online Training

Why Choose Us?



**Training by
Certified Instructors**



Weekly Assignments



Project Training



Resume Preparation



Mock Interviews



**Interview cracking
tips**

Playwright Course Syllabus

Introduction to Automation Testing

- What is automation testing & why it matters
- Manual vs automation testing
- Introduction to Playwright & its advantages
- Playwright vs Selenium vs Cypress
- Course roadmap & tools overview

Playwright Setup & Environment

- Node.js & npm installation
- Installing Playwright & browsers
- VS Code setup & extensions
- Project structure & configuration (playwright.config)
- Running your first test

Playwright Fundamentals

- Writing test cases with test() & expect()
- Understanding the Page object
- Navigation & page interactions
- Auto-waiting & why tests are stable
- TypeScript basics for Playwright

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UI Automation with Playwright

- Locators & selectors (CSS, XPath, text, role)
- Clicks, typing, forms & dropdown
- Handling checkboxes, radio buttons & sliders
- Assertions & expect matchers
- Screenshots & visual checks

Advanced Playwright Concepts

- Handling multiple tabs & windows
- Network interception & mocking
- Working with Shadow DOM
- Handling frames & iframes
- Debugging & tracing

Playwright Test Framework

- Page Object Model (POM) design
- Fixtures & custom fixtures

- Test hooks (beforeEach, afterEach)
- Data-driven testing
- Reusable components & utilities

Integration Patterns We Cover

- Point-to-Point
- Splitter & Aggregator
- Hub Advanced -and-Spoke
- Content-Based Routing
- Pub / Sub (JMS)
- Idempotent Receiver

Cross-Browser & Parallel Testing

- Testing across Chromium, Firefox & WebKit
- Parallel test execution
- Test sharding & workers
- Device & mobile emulation
- Managing test configurations

Robust Element Identification

- Using Inspector and Codegen Tools
- Chrome DevTools Integration
- Dynamic Element Handling
- Selector Stability & Best Practices

Working with Forms & Tables

- Extracting & Validating Table Data
- Dynamic Table Handling
- Checkbox, Radio Button Handling
- Select & Multi-select Dropdown
- Submitting Forms

Waits & Dialog Handling

- Auto-Waits vs Explicit Waits
- WaitForSelector and Custom Conditions
- Timeout Management
- Handling Alerts, Prompts, and Confirmations
- File Upload Dialogs

Actions (Mouse, Keyboard, Touch)

- Hover, Click, Double Click, Right Click
- Keyboard Events and Shortcuts
- Drag-and-Drop
- Viewport & Scrolling
- Touch Simulation

Browser Contexts & Auth

- Persistent Contexts
- Cookies and LocalStorage

- HTTP Authentication
- Saving & Reusing Auth States

API Testing with Playwright

- REST API testing basics
- GET, POST, PUT & DELETE requests
- Request & response validation
- Combining API + UI tests
- Authentication & tokens

CI/CD Integration

- Introduction to CI/CD
- Running Playwright in GitHub Actions
- Jenkins & GitLab pipeline integration
- Headless execution in pipelines
- Test artefacts & reports in CI

Reporting & Debugging

- Built-in HTML reporter
- Trace viewer & debugging tools
- Screenshots & videos on failure
- Custom reporters (Allure)
- Analysing & fixing flaky tests

Version Control & Collaboration

- Git fundamentals for testers
- Branching & pull requests
- Working with repositories (GitHub/GitLab)
- Team collaboration workflows
- Code reviews & best practices

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CI/CD & DevOps Integration

- Jenkins Setup and Integration
- Git & GitHub Workflow
- Pull Requests and Branching Strategy
- Merge Conflicts and Resolution
- GitHub Actions and CI/CD Pipelines

MCP (Model Context Protocol) with Playwright

- What is Model Context Protocol (MCP)?
- How MCP connects AI agents, tools, and applications
- MCP architecture (Client, Server, Tools, Capabilities)
- Understanding MCP config (capabilities, tools, handlers)
- Setting Up Claude Desktop and Integrating with Playwright MCP Server
- Mapping Playwright functions as tools:
 - Launching browser (launch_browser)
 - 1. Navigating to URL (go_to_url)
 - 2. Interacting with elements (click, enter_text)
 - 3. Assertions (assert_text, element_visible)
- Triggering Playwright Automation from an MCP client (example: Claude)

AI Coding Assistant for Automation (GitHub Copilot)

- What is GitHub Copilot
- IDE integration (VS Code / IntelliJ)
- Generate Page Object Model for Playwright
- Generating Playwright Scripts using Github Copilot Prompt from an MCP client (example: Claude)

- Test Data Generation for Playwright Test Cases
- Code improvements: Refactoring, Debugging
- Prompting for code generation
- Auto-completion of repetitive code

Real-Time Projects

- End-to-end e-commerce automation project
- Building a complete test framework
- Real-world scenarios & challenges
- Best practices & code optimisation
- Project presentation & review

Interview Preparation

- Resume building & LinkedIn optimisation
- Playwright interview questions & answers
- Framework & coding round practice
- Mock interviews with feedback
- Placement assistance & job referrals

Our Other Courses

Trending Software Testing courses

Playwright Automation 

Selenium Automation 

Tocsa 

ETL Testing 

Performance Testing 

API Testing 

Load runner 

J-meter 

Neo load 

Manual Testing 

Most Trending Courses

Data Science 

Data Analytics 

Scrum Master 

Most Demand Courses

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Azure DevOps 

Power BI 

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Our Branch



Address: #407, Crescent arcade, Madhapur, Hyderabad



+91 - 7995138210
 +91 - 7013123485



contact@nextitcareer.com

Our Infrastructure

