

Playwright – JavaScript Course

Master Modern Web Automation



Week 1: JavaScript Fundamentals

- JS Introduction and History
- Datatypes
- Variables – var, let & const
- Operators
- Conditional Statements
- Looping Statements
- Functions & Types
- String Methods

Week 2:

Getting Started with Playwright

- Understanding Playwright Architecture
- Browser, Context, Page
- Code your basic first test script
- Playwright Config file Walkthrough
- Playwright Locators (CSS & XPath)
- Fixtures
- Handling Dropdown

Week 3:

TypeScript

Fundamentals

- Arrays in JS
- Promises in JS
- Introduction to TypeScript
- TypeScript Types, Explicit Types & Annotations
- Type Aliases
- Object Literals
- Type Assertion
- Enums
- Optional & Default Parameters

Week 4:

Deep Dive into Playwright

- Assertions using expect library
- Auto-waiting
- Alerts
- Iframes
- Handling multiple windows / tabs
- File Upload
- File Download

Week 5:

Data

Parameterization

& Playwright

Capabilities

- Reading Data from .env, .json, .csv files
- Shadow DOM
- Storage state (Skip Login)
- Trace Viewer & Video Capture
- Persistent Context
- Explicit Waits
- Geolocation
- Console Logs
- Device Emulation
- Code gen Basics

Week 6:

API Introduction & Integration

- Introduction to REST API
- Headers
- Verbs (POST, PUT, GET, DELETE, PATCH)
- Request Body, Response Body
- Authorization Types
- APIRequest, APIRequestContext, APIResponse
- Status Code, Response Body & Response Time

Week 7:

Test Runner & Design Pattern

- Test suite Structure
- Reporters
- OOPS Principles in TypeScript
- Introduction to Design Pattern
- Page Object Model
- Framework Best Practices

Week 8:

CI Integration

- Test Retry
- Custom Fixtures
- Visual Testing
- Network Interception
- Jira Integration
- GitHub Actions
- Implement Exception Handling
- Cross browser testing
- Global Setup/Tear downs

Happy Learning!

THANK YOU

