Playwright Automation Course Content

JavaScript Fundamentals

- Variables
- Data types
- Operators
- Conditional statements
- Loops
- Functions
- Arrow functions
- Arrays
- Call backs
- Promises

TypeScript Fundamentals

- Intro to TS and why TS
- Installing and configure TS
- Compiling and run TS
- Typescript types
- Type inference
- Explicit types
- Functions with type annotations
- Enums in Type
- Type assertion
- Array type annotations
- Recap

Get Started with Playwright

- Setup new project in Playwright
- Understand its architecture
- Cover Key concepts (Context, Page etc)
- Write a basic first test script
- Selectors/Locators
- Learn basic CSS syntax
- Different ways to locate a DOM element (by title, by label, by role etc)
- Write more scripts and perform actions like clicking, typing
- Synchronization/Auto waiting
- Learning assertion using expect library

Dig Deeper into Playwright

- Understand playwright configuration file
- Headless/Headed mode
- Debugging using pause mechanism
- Deal with list of elements
- Handle iframes
- Shadow DOM
- Alerts
- Keyboard/mouse actions (Click, Right click, context click, Mouse Hover, drag and drop)
- File upload download
- Multiple Tabs/ Windows

Playwright Advanced Applications

- Reading Data from (.xlsx file, JSON file)
- Test suite structure
- Reporter
- Trace viewer
- Video
- Device emulation
- Code gen (Record & Playback Tools)
- Playwright Inspector
- Visual Testing

Handling APIs with Playwright

- Why APIs?
- Learn different API methods
- API Request context
- Handling API requests using PW
- Handling API responses using PW
- Network interception

Playwright Test Runner/Reporter

- Role of test runner
- Grouping
- Filtering
- Skipping
- Only keyword
- Test level configuration

- Test Retry
- Overriding config at test level
- Overriding config at project level
- Parameterization Test
- Test Suite
- Test Steps
- Cross browser testing
- Different types of reports
- Global Setup / Tear down

OOPS for Playwright

- Classes in TS
- Constructor
- Access modifiers
- OOPS principles
- Practical implementation in Playwright test script (Inheritance, Polymorphism etc.)

Framework Generation for Playwright Automation

- Introduction to POM
- Refactor 1 existing script with POM
- Implement Page actions
- Creating Base Page
- Implement common actions methods
- Refactoring Test script with best practice

Report Generation & CI Integration

- HTML and Allure report generation for Playwright automation
- Install & Configure CI/CD using Jenkins
- Integrate the playwright framework with Jenkins

Capstone Projects

- Implementing Test scripts without POM
- Implement framework for your project (POM &Test runner & Reporter)
- Add E2E suite to CI pipeline

New Batches

Date	Timings	Duration	Trainer	Fee