

# Playwright Test

## On-line Introduction

### Description

- Learn everything you need to get up and running quickly with Microsoft's Playwright Test Runner Framework, covering GUI testing as well as some REST API testing.

### Delivery Method

- Live online training course (Instructor-Led), delivered over 5 sessions of approximately 3.5 hours each. You will be provided an e-workbook for the course and homework exercises between sessions.
- Sessions are recorded so you can review what you have learned at a later date

### Course Pre-requisites

- None, although some experience with JavaScript would be advantageous

### Technologies Used

- Playwright API, Playwright Test Runner, JavaScript, Visual Studio Code, Git/GitHub

### Key Points

#### Introduction

What is Playwright, Technology stack, Web Browsers supported

#### Visual Studio Code IDE

IDE Requirements, NodeJS, NPM, Installing & configuring VS Code, Executing JavaScript in VS Code

#### Playwright Library Setup

package.json & npm, Installing Playwright API, VS Code extensions, First simple Playwright API script

#### Playwright Test Runner Setup

Frameworks, Installing Playwright-Test, Creating your first Playwright Test

#### Recording

Recording Scripts with the Inspector

#### Playwright Config

Config file options, Config precedence, baseUrl, Web Browser options, Browser Navigation, Project definitions.

#### Locators

Chrome Development Tools, Using ID, Class & CSS, Text, XPath Chrome extensions, Playwright Inspector, Scoping Elements, Regular Expressions

#### Actions

Common Playwright Actions

#### Assertions

Assertion Libraires, Web Elements, Page Assertions, Locators vs. Element Handles

#### Capturing Element Attributes

Specific Methods, Generic Methods for capturing data from the Web Application.

#### Synchronisation (Waits)

Autowait, Local Timeouts, Test Spec Timeout, Global Timeout Config, Static Waits

#### Screenshots

Capturing Screenshots, Video & PDFs. Image Validation

#### Debugging

Browser Settings, VS Code Node Debugger, Playwright Test Debugger with Inspector, Trace Mode

#### API Testing

The Request Fixture, executing API tests against a REST Server

#### Hooks & Test Annotations

Grouping Tests into Test Suites, Skipping Tests, Using Filter Tags, Hooks

#### Reporters

Built-in Reporters, Allure-Playwright

#### CLI Options

Command-line Execution

#### Parallelism & Sharding

Executing tests in Parallel, Sharding across machines

### Extras

#### Data-Driven Testing

Different approaches to using global data within Test Specs.

#### Storage States

Capturing login storage state and re-using in other tests

#### Page Object Model

What is the POM?, how to implement it into Playwright-Test

#### GitHub Actions

Executing tests automatically against GitHub VMs

5  
Sessions

The  
comprehensive  
course for  
writing effective  
Playwright Web  
Tests

Recommended  
for any new  
users of  
Playwright