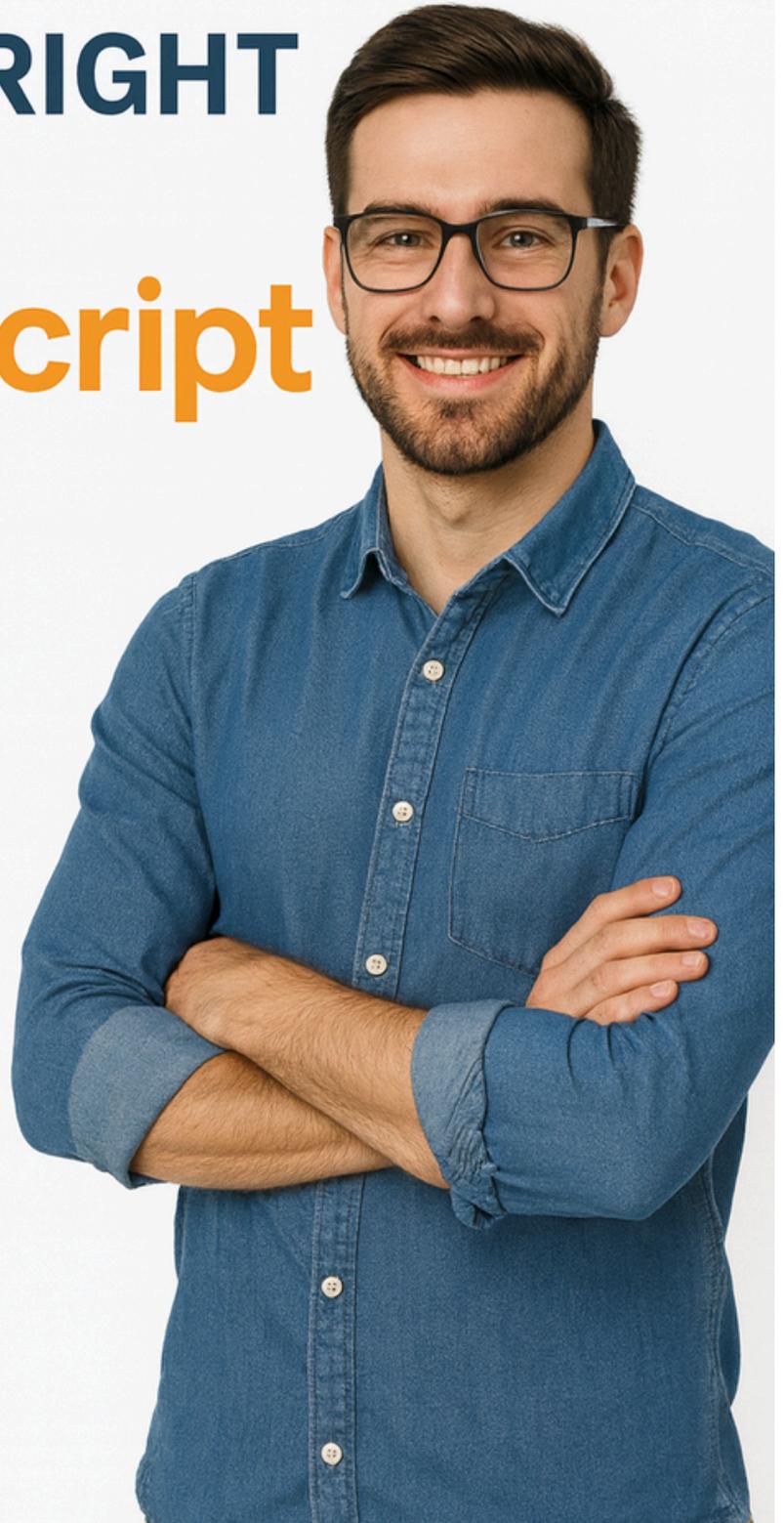




Advaitha Information
Technology Services

**PLAYWRIGHT
WITH
JavaScript**



AUTOMATION TESTING WITH PLAYWRIGHT

CONTENTS



Overview of the course

Playwright is a powerful end-to-end testing framework that enables reliable automation for modern web applications. We can handle both API and web automation.

This course will take you on a comprehensive journey of 45 hours, teaching you how to leverage playwright capabilities using JavaScript/ Typescript to build robust and efficient automation tests from scratch, using a well-structured framework.

Pre-requisites

No programming knowledge is required.

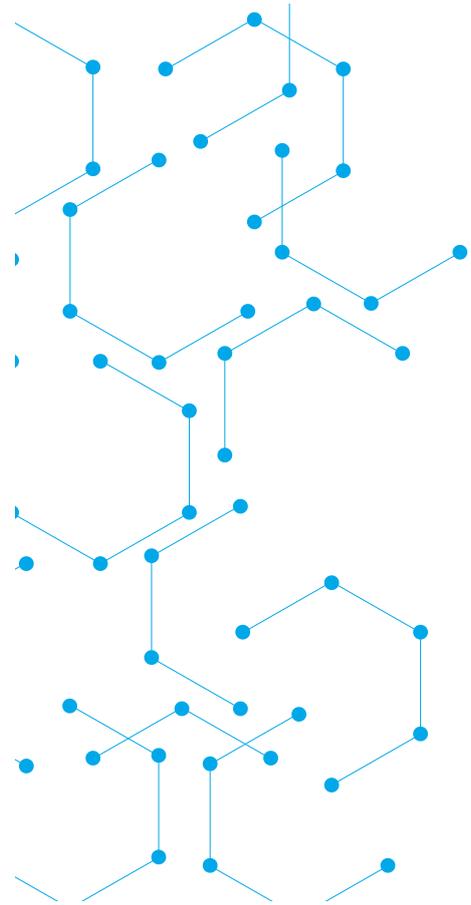
No testing knowledge is required.

Target audience

Any graduate / Post graduate

Employees who are already working in Manual Testing

Course syllabus



TypeScript

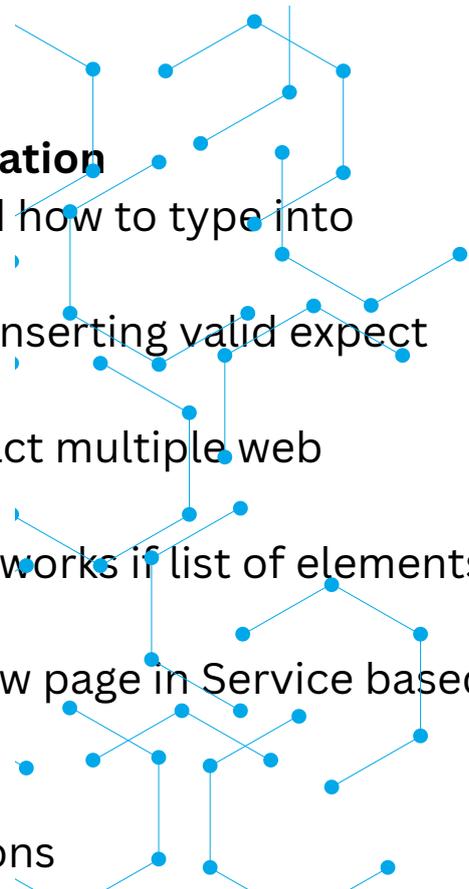
- Introduction to Typescript
- Variables & Datatypes
- Type inference & Type assertion
- Decision making statements
- Iterative statements
- Functions & Arrays
- Classes & Objects
- Constructors
- Data Modifiers

Introduction to Playwright

- Introduction to playwright features
- Installing VS code & node.js
- Setting up playwright environment

Getting started with playwright Automation

- Create first npm project & install playwright dependencies
- Importance of Playwright Test Annotation and async & await understanding
- Browser context and Page fixtures in Playwright
- Importance of Playwright configuration file and its details to run the tests
- Running Playwright tests in multiple browsers - chrome, Firefox



Playwright basic methods for web automation

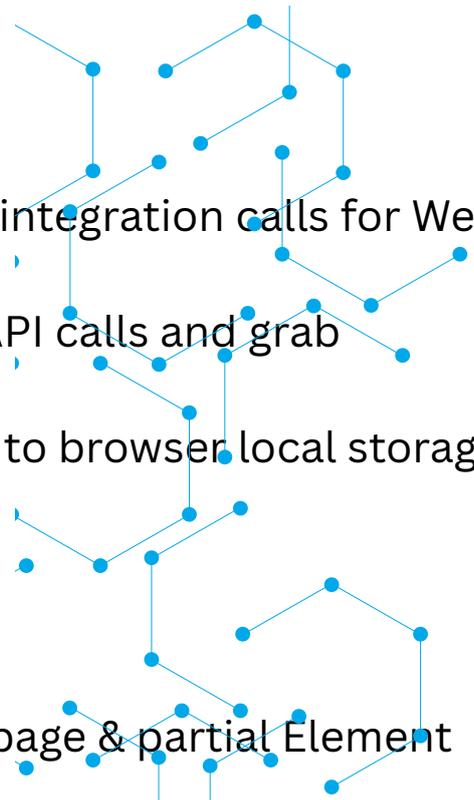
- Locators supported by playwright and how to type into elements on page
- Extracting the text from browser and inserting valid expect assertions in test
- How to work with locators which extract multiple web elements in page
- Understanding how wait mechanisms works if list of elements are returned
- Techniques to wait dynamically for new page in Service based applications
- Handling UI components
- Handling static select dropdown options
- Selecting radio buttons, Checkboxes and implement expect assertions
- Using async await with Assertions and understand validating the attributes
- Handling Child windows & Tabs with Playwright by switching browser

Learn playwright inspectors and trace viewers

- Playwright inspector and how to debug the playwright script
- Codegen tool to record & Playback with generated automation script

Detailed view of Test Traces

- HTML reports, logs & Screenshots for test results
- Handling dialogs, frames, event listeners
- How to automate Java/JavaScript Alert popups with Playwright
- How to handle & automate frames with Playwright



API testing-

- Understanding the importance of API integration calls for Web tests
- Playwright request method to make API calls and grab response
- Parsing API response & passing token to browser local storage with Playwright

Perform visual testing with playwright

- Capture screenshots with playwright page & partial Element level – Demo
- What is visual testing & How to perform it using Playwright
- Page object pattern & Importance of its implementation
- Creating Page objects and action methods for end to end Script - Part 1
- Creating Page objects and action methods for end to end Script - Part 2

Project configurations & config options

- Various options in use property & setting up Project configurations

HTML & allure reporting

- How to generate html and allure reporting
- How to create custom scripts to trigger the tests from package.json

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