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14 YEARS

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**Playwright**

## Introduction

- ⇒ Introduction to Playwright Features
- ⇒ Install Node.js & Visual Studio for setting up Playwright Environment

## Getting Started with Playwright Automation

- ⇒ Create npm Project and install Playwright dependencies for testing
- ⇒ Importance of Playwright Test Annotation and async await understanding
- ⇒ What is browser context and Page fixtures in Playwright ? - Example
- ⇒ 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 webelements in page
- ⇒ Understanding how wait mechanism works if list of elements are returned
- ⇒ Techniques to wait dynamically for new page in Service based applications

## Handling UI Components (Dropdowns, RadioButtons, Child Windows)

- ⇒ Handling static Select dropdown options with Playwright
- ⇒ 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, Trace Views

- ⇒ What is 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 Web dialogs, Frames & Event Listeners

- ⇒ How to validate if element is hidden, displayed mode with Expect assertions
- ⇒ How to automate Java/JavaScript Alert popups with Playwright
- ⇒ How to handle & Automate frames with Playwright - Example

## API Testing with Playwright and Build mix of Web & API Tests

- ⇒ understanding the importance of API integration calls for Web tests
- ⇒ Playwright request method to make API calls and grab response - Example
- ⇒ Parsing API response & passing token to browser local storage with Playwright
- ⇒ Place order API to create order and bypass the flow in UI with mix of web/API
- ⇒ End to end validation with mix of API & Web concepts - Reduce test time
- ⇒ Refactor API calls from utils folder and isolate from Web test logic

## Perform Visual Testing With Playwright

- ⇒ Capture Screenshots with Playwright on page & partial Element level - Demo
- ⇒ What is visual testing & How to perform it using Playwright

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- ⇒ What is 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
- ⇒ Assignment Solution - Converting Page object Model Project
- ⇒ How to drive the data from external json files to playwright tests
- ⇒ Implementing Parameterization in running tests with different data sets
- ⇒ How to pass test data as fixture by extend test annotation behaviour

## Project Configurations & Config Options

- ⇒ various options in use property & setting up Project configurations
- ⇒ View port Property on emulating browser to mobile devices with playwright
- ⇒ Screenshots, Videos, Traces & SSL certification options setting in Config file

## HTML & Allure Reporting

- ⇒ How to generate HTML & Allure reporting for Playwright Framework tests
- ⇒ How to create custom scripts to trigger the tests from package.json





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