Playwright
with JAVA Script & Typescript

JavaScript introduction

- JavaScript Introduction
- IDE (integrated development environment): Visual Studio code
- Install Node.js & Visual Studio code for setting up Playwright Environment
- What are the Features of JavaScript

Handling JavaScript inbuilt keywords, variables, methods

- How to declare a Class and how to store data in it
- How to execute the '.js' classes in both run and debug mode
- JavaScript comments
- JavaScript Java Script
- JavaScript variable like is Let, var and const and scope of the varibales
- Access variables
- Naming Variables rules
- How to create Variables and initialize value to it
- How to use JavaScript Operators
- Strings and String methods
- JavaScript Date
- JavaScript collections like Set and map, weakmap
- What is Type Annotation and how to use it
- Decision Making/conditional statements (if-else, switch,Ternary operators)
- Loops (indefinite (while and do-while) and definite (for, for of and for in, for each))
- Break and continue keyword
- Difference between 'forEach' and 'for loop' in Javascript
- JavaScript Classes And OOPS
- Getter and setter in JavaScript
- How to create Config file and to add all the dependencies related to playwright project

Handling typescript inbuilt keywords, variables, methods

- How to declare a Class and how to store data in it
- How to execute the '.ts' classes in both run and debug mode
- What is Let, var and const and how to use it
- How to use the TypeScript Type (Static, Built-in, user-defined)
- How to create Variables and initialize value to it
- How to use Operators
- How to declare and use Arrays
- Strings and String methods
- How to collections like Tuples and Union
- What is Type Annotation and how to use it

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- Decision Making/conditional statements (if, if-else, nested-if, if-else-if, switch)
- Loops (indefinite (while and do-while) and definite (for, for of and for in, for each))
- Access and Non-Access Modifiers
- How to use different types of Inheritance
- How to achieve Interface
- What is Overriding with examples
- How to create Config file and to add all the dependencies related to playwright project

Playwright Introduction and Installation

- Playwright Introduction and Playwright Installation
- Create npm project and install all playwright dependencies for testing
- Importance of playwright and how to execute playwright script in both Run and debug mode
- What is page, browser context and how to execute the playwright code in cross browser testing using chrome and Firefox browsers

Handling web elements using playwright

- What are all the Locators & Selectors and how to use locators on every web element on the application
- How to extract single and multiple web elements in playwright
- What are all the Methods is available in playwright along with selenium methods
- Wait mechanism by using await and async and different wait methods
- How to click and web element and how to extract the text using playwright
- How to generate report and how to store it
- Handling Click action on Checkbox and Radio button, buttons, elements, links
- How to verify Element State
- How to perform Mouse Events

Handling waits using playwright

- How to handle both static and dynamic web element using playwright

Playwright
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Handling windows and Frames, Alerts, web tables and web calendars using playwright:

⇨ Handling child and parent windows using playwright
⇨ Handling child and parent frames using playwright
⇨ Handling Web Table and Web table.
⇨ Handling Alert popups using playwright
⇨ How to create web elements using page Object Model

To perform parallel and cross browser testing

⇨ Parallel and Cross Browser Testing

Handling Asserts in playwright

⇨ Validations by using both hard and soft Assertions
⇨ What are hooks in Playwright and what benefit of hooks
⇨ How to use different Types of hooks in playwright
⇨ When to use Before/After and Before/After

Handling Screenshots using playwright

⇨ How to create Full page screen shots using playwright

Project Integration with Git

⇨ Project source code integration with Git