

Training for Playwright with TypeScript

S. No.	Day	Features/Topics	Date and Day	Status	Assignment Status	Remarks
1	Day 1	JavaScript Basics	16 Jan, Thursday	Pending		
		· Variables (var, let, const)				
		· Data types (strings, numbers, booleans, arrays, objects)				
		· Operators (arithmetic, comparison, logical)				
		Control Structures:				
2	Day2	· Conditional statements (if-else, switch)				
		· Loops (for, while, do-while, forEach)				
		Functions				
		Error Handling				
		TypeScript Basics				
		Interfaces and Types				
		Arrays				
		Tuple				
		Object Types				
		Enums				

		Type Aliases				
		Interfaces				
		Union Types				
3	Day3	Functions				
		Union Types				
		Casting				
		Classes				
		Generics				
		Utility Types				
		Keyof				
4		Introduction to Playwright and its features				
		Install Node.js & Visual Studio for setting up Playwright Environment				
		Create npm Project and install Playwright dependencies for testing				
		Importance of Playwright Test Annotation and async await understanding				
5		What is 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				
6		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 mechanism works if list of elements are returned				
		Techniques to wait dynamically for new page in Service based applications				
7		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 context				

		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				
8		Understand how GetByLabel & Playwright UI Runner works				
		Filtering elements with GetByRole, GetByText and perform chaining methods				
		Understand when getByLabel can be used to enter into edit boxes				
		Strategy on handling Calendars automation using Playwright				
		End to end example of validating calendars with assertion in playwright				
9		How to validate if element is hidden, displayed mode with Expect assertions				
		How to automate JavaScript Alert popups with Playwright				

		How to handle & Automate frames with Playwright - Example				
		Understanding the importance of API integration calls for Web tests				
		Playwright request method to make API calls and grab response				
		End to end validation with mix of API & Web concepts				
10		How to save session storage using Playwright and inject into new Browser context				
		How to debug the API steps in script using Visual code debugging				
		Detailed view of Trace viewer to understand the API logging req/responses				
		How to intercept Network response calls with Playwright route method				
		Understand the playwright route method and its parameters in intercepting				
11		How to intercept Network request calls with Playwright				

		How to abort the Network calls with Playwright				
		Capture Screenshots with Playwright on page & partial Element level				
		What is visual testing & How to perform it using Playwright				
12		Introduction to excelJS node module and setting up JS Project				
		Traversing rows and columns of excel worksheet with excelJS library				
		How to get and update the data from excel based on filter search criteria				
		Strategy to handle download & uploading files using Playwright				
		End to end example for excel edits and upload with assertions using Playwright				
13		Page Object Patterns & Data driven Parameterization for Playwright Tests				
14		Project Configurations, & Config options for robust Framework design				
15		Test Retries , Serial & Parallel execution &				

		Tagging Tests in Playwright				
16		HTMI & Allure Reporting & CI/CD Jenkins Integration				
17	Additional Topics	Playwright Cucumber Framework Integration with its features				
