COURSE TABLE OF CONTENTS

Playwright with Python

OEM: Open Source • Duration: 5 Days (40 hrs)

COURSE MODULES & TOPICS

Module 1: Introduction to Playwright

- Overview of Playwright
- Key features and capabilities

Module 2: Setting Up the Environment

- Install Python
- Install PyCharm
- Install Playwright
- Run first Playwright test

Module 3: Running Playwright Tests

- Ways to run Playwright tests

Module 4: Script Generation and Codegen

- Generate script with Codegen
- Generate test scripts using Codegen

Module 5: Locators and Selectors

- Built-in locators explained (OrangeHRM Demo)
- Mastering CSS & XPath locators
- Using SelectorsHub
- Filtering locators

Module 6: Browser Navigation and Code Walkthrough

- Browser navigations
- Line-by-line code explanation for beginners

Module 7: Debugging and Trace Viewer

- Debug tests with Trace Viewer

Module 8: Sync vs Async in Playwright

- Synchronous vs asynchronous execution in Python Playwright

Module 9: Handling Alerts and iFrames

- Alert handling (confirm, prompt, simple alerts)
- Playwright Python iFrames handling

Module 10: Dropdowns and Web Tables

- Dropdown validation & options count
- Web tables handling
- Sortable tables automation

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Module 11: Validating Broken Images

- Broken images validation

Module 12: Tabs and Extensions

- Handle new tab and switch between tabs
- Playwright CRX extension tutorial

Module 13: Date Picker and Screencast API

- Date picker & calendar automation
- Screencast API tutorial

Module 14: Sliders, Assertions, and Timeouts

- Slider automation & assertions
- Timeouts explained step by step

Module 15: File Download and Verification

- Download & verify files

Module 16: API Testing with Playwright

- API testing GET requests
- POST API requests and create users
- Generate dynamic email using timestamp
- Data-driven API testing using CSV file
- API chaining for end-to-end testing
- Mock API responses for broken APIs

Module 17: Authentication and Storage State

- Save & reuse login with storage state

Module 18: Fixtures and Customization

- Fixtures explained step by step
- Custom login fixture with conftest.py

Module 19: Advanced UI Automation

- Automate tooltips
- Multiple browser context for parallel sessions

Module 20: Reporting and Test Markers

- Pytest-HTML reports tutorial
- Pytest markers (Skip, XFail, Smoke & Regression)

Module 21: Page Object Model (POM)

- Page Object Model explained