

PlayRight Training

This curriculum introduces an innovative Playwright Training Course which offers hands-on training, immersing students in practical exercises and real-world projects. Participants learn to create robust test scripts, execute tests efficiently, and analyse results effectively using Playwright's powerful features and APIs. By the course's conclusion, graduates are equipped with the skills to leverage Playwright effectively in their testing workflows, enabling them to ensure the reliability and quality of web applications across various platforms and browsers.

Course Duration : 45 Days

Course Language : English/Hindi/Telugu

Classroom : Offline/Online Training/Hybrid Training

Description

The PlayRight Training course is a comprehensive program designed to equip individuals with the knowledge and skills needed to excel in the field of voice acting and performance capture for video games, animation, and other multimedia projects. Geared towards aspiring voice actors, performers, and entertainment professionals, this course offers a unique blend of theoretical knowledge and practical training in the art of voice acting and performance capture.

Throughout the course, participants will explore various aspects of voice acting and performance capture, including character development, script analysis, vocal techniques, and emotive expression. They will learn how to effectively convey emotions, personalities, and narratives through their voice and physical performance, mastering the nuances of timing, tone, and delivery essential for creating compelling and immersive characters.

Moreover, the PlayRight Training course covers essential topics such as audition techniques, studio etiquette, and industry insights, providing participants with a comprehensive understanding of the voice acting and performance capture industry. Participants will also have the opportunity to work on real-world projects and receive constructive feedback from experienced professionals, helping them refine their craft and develop their unique artistic voice.

By the end of the course, Participants will be equipped with the skills and confidence to pursue careers in voice acting and performance capture across a wide range of media platforms, including video games, animated films, television shows, and commercials. With their newfound expertise in PlayRight Training, participants will be well-prepared to unleash their creative potential and make a lasting impact in the world of entertainment.

Skills you get

- Proficiency in Playwright Scripting
- Cross-browser Automation
- End-to-End Testing
- Handling Dynamic Web Elements
- Integration with CI/CD Pipelines
- Performance and Accessibility Testing

Course Contents

Introduction to Playwright

- Overview of end-to-end testing
- Introduction to Playwright
- Features and capabilities of Playwright
- Installing Playwright (Node.js and Playwright setup)
- Playwright CLI and IDE overview

Exercises:

- Install Playwright and set up the development environment
- Write a simple script to open a browser and navigate to a webpage

Core Concepts and Basic Usage

- Browsers and contexts
- Pages and frames
- Selectors (CSS, XPath, Text)
- Basic actions (click, fill, type, etc.)
- Assertions and Validations

Exercises:

- Create a script to interact with different elements on a webpage
- Use various types of selectors to locate elements
- Implement basic assertions to validate page content

Advanced Interactions

- Handling forms and input fields
- File uploads and downloads
- Handling Alerts, Frames, and Windows
- Mouse and keyboard interactions
- Capturing screenshots and videos

Exercises:

- Automate a form submission process
- Handle file uploads and verify the upload
- Manage multiple browser windows and frames
- Capture screenshots and video recordings of tests

Network Interception and Mocking

- Intercepting network requests and responses
- Mocking API responses
- Handling authentication (Basic, Token-based)
- Network throttling and offline mode

Exercises:

- Intercept and modify network requests
- Mock API responses to test different scenarios
- Automate login processes using various authentication methods
- Simulate network conditions and test application behaviour

Test Automation Framework

- Structuring Test Suites and Test Cases
- Page Object Model (POM)
- Writing reusable functions and components
- Data-Driven Testing with Parameterization
- Running tests in parallel

Exercises:

- Organise tests into suites and cases
- Implement Page Object Model for a sample application
- Write reusable helper functions
- Create data-driven tests using different data sets
- Configure and run tests in parallel

Continuous Integration and Deployment

- Integrating Playwright with CI/CD tools (Jenkins, GitHub Actions, GitLab CI)
- Running tests in Headless Mode
- Generating Test Reports (Allure, HTML)
- Debugging failed tests

Exercises:

- Set up a CI/CD pipeline to run Playwright tests
- Configure tests to run in headless mode
- Generate and customise test reports
- Debug and fix failing tests in the CI environment

Cross-Browser and Mobile Testing

- Running tests on different browsers (Chromium, Firefox, WebKit)
- Emulating mobile devices and network conditions
- Testing responsiveness and mobile-specific features
- Using BrowserStack or Sauce Labs for Cross-Browser testing

Exercises:

- Execute tests across different browsers
- Emulate mobile devices and run tests
- Verify responsiveness of web applications
- Integrate with BrowserStack or Sauce Labs for broader testing coverage

Playwright Plugins and Customization

- Using Playwright test runner
- Integrating third-party plugins
- Custom reporters and test hooks
- Extending Playwright with custom functions

Exercises:

- Set up and use Playwright test runner
- Integrate and use a Playwright plugin
- Create custom test hooks and reporters
- Develop and use custom functions in Playwright scripts

This course structure ensures that learners get a thorough understanding of Playwright, from basic concepts to advanced techniques, with practical, hands-on experience.