

**START YOUR  
PLAYWRIGHT  
CAREER TODAY!!**

**CREDO SYSTEMZ**

**Playwright  
with Java  
Program**

# Capstone Projects :

## Real Time Playwright Training Projects



### API + UI Integration Testing

Automate UI flows and validate backend API responses together to ensure end-to-end consistency.



### E-Commerce Website Test Suite

Automate end-to-end testing of an online store: homepage load, banner, search, add-to-cart, and checkout.



### News Scraper & Verifier

Automate news portal UI checks with Playwright: compare screenshots, validate headlines, timestamps, and navigation.



### Login Authentication Test App

Test a web app login: valid/invalid attempts, forgot password, session expiry using data from .json/.env files.



### Form Validation Automation

Test input fields, dropdowns, file uploads, and error messages in dynamic web forms.



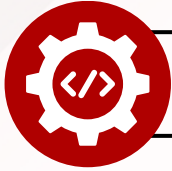
### Dashboard and Reporting Validation

Verify charts, filters, and real-time updates on business dashboards with Playwright scripts.



# Playwright

## Opportunities & Demand



**Automation Test Engineer**



**Test Automation Architect**



**DevOps & Test Automation Engineer**



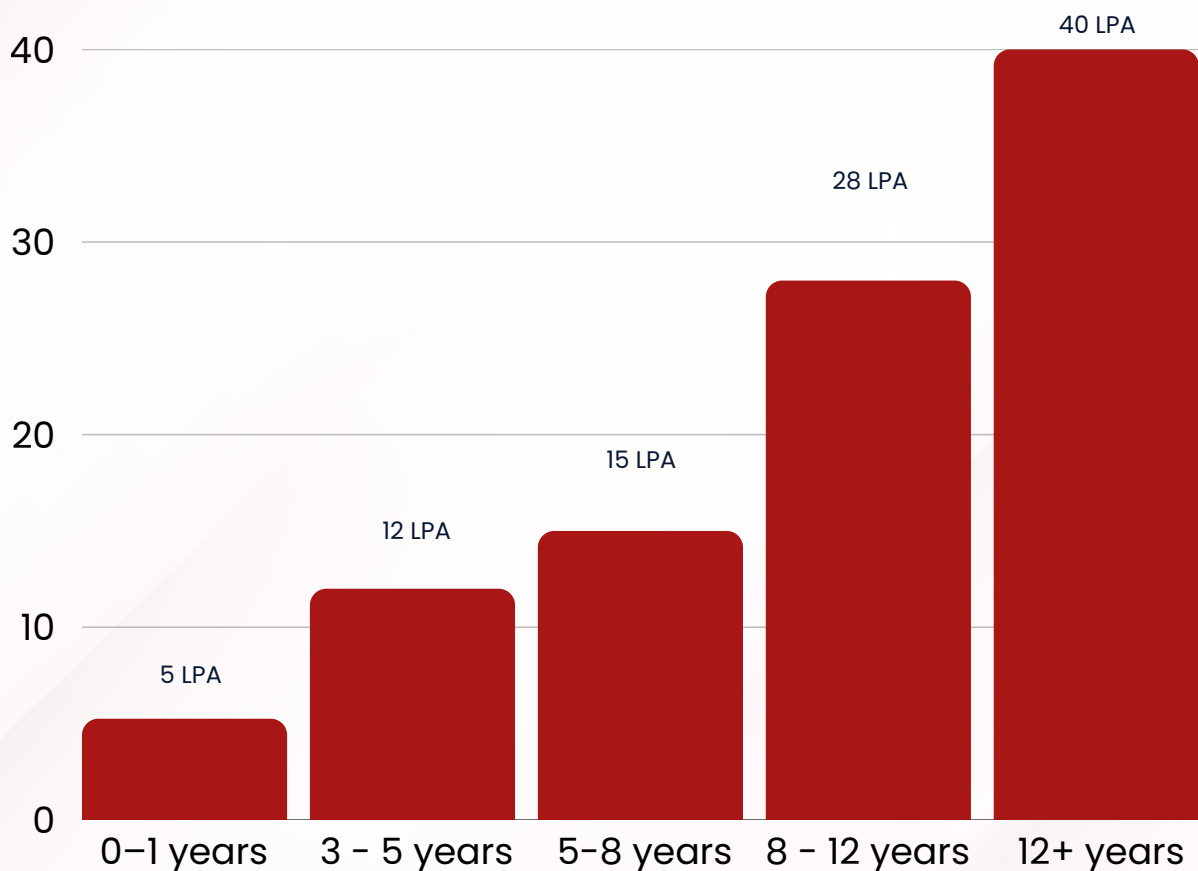
**Performance Tester**



**Software Engineer**



**CI/CD Test Engineer**



# PLAYWRIGHT COURSE SYLLABUS

## PLAYWRIGHT WITH JAVA

**Duration : 40 hrs**

### ✦ Section 1 : Introduction

- What is an API with an Example's Usage of API
- Why API is growing in demand (API Base APP + Faster + Easier to Isolate + Less Failure)
- API vs Web Service vs Microservice
- SOAP(1998) vs REST(2000) vs GraphQL -- Architecture design
- To see the API call use the Developer tool + Network tab or Postman Interceptor

### ✦ Section 2: Tools Available for Each Architecture

- Swagger (Design and Documentation)
- Postman (Design,Develop,Manual Test,Automation,CI/CD) - Java Script
- SOAP UI - SOAP + REST - Groovy
- Karate - BDD
- TOSCA - Codeless automation
- REST Assured Framework using Java

### ✦ Section 3: Rest Terminologies

- Consumer vs Provider
- HTTP Methods (CRUD) POST - Create + GET - Read+ PUT + PATCH + DELETE)
- Authentication - No Auth Ex : Weather,Map + Basic Ex : Gmail + oAuth 2 (Open Source Auth) Ex : Payment Gateway(Expiry) + Token Ex
- HTTP Header (Content Type - Req Data,Accept - Res Data,Cookies - session,Host - req server and port details)

#### **Real Time Practicals**

- Java logical programs from interview point view
- Interview questions discussions

### ✦ Section 4: I/O Streams

- I/O using Java
- Files (Create/Read/Write operations on files)

#### **Real Time Practicals**

- Reading values from the File and perform java logical programs.

## ✦ **Section 5: Introduction to Playwright**

- What is Playwright?
- Playwright Vs Selenium
- Advantages of Playwright
- Architecture of Playwright

## ✦ **Section 6: Getting Start with Playwright**

- Maven Setup
- Adding Playwright Dependencies

## ✦ **Section 7: Interacting with Browser**

- Launching Chrome, Edge, Firefox and Webkit.
- Performing Browser Actions like Maximize and Handling Cookies.
- Interacting with CDP.

## ✦ **Section 8: Locations in Playwright**

- CSS
- XPath

### **Real Time Practicals**

- Interview questions discussion

## ✦ **Section 9: Exploring Web Elements**

- Edit box
- ink
- Button

- Checkbox
- Radio Button
- Drop Down Box
- Select value
- Display all values
- Select values step by step
- Capture screenshots
- Synchronization Commands in Playwright
- HandlingWebTables

### **Real Time Practicals**

- Performing end to end scenarios in Ecommerce application
- Performing end to end scenarios in user registration application
- Handling web tables in the live score card
- Performing Functionality test in the banking application

## ✦ **Section 11: Handling complex User Gestures**

- Handling Mouseover Menu
- Handling Slider
- Handling Drag and Drop
- Handling Shadow DOM
- Handling Keyboard Event

## ✦ **Section 12: Capturing Screenshot, Videos and Trace viewer**

- Capturing Screenshot
- Capturing Videos
- Capturing Trace Viewer

## ✦ **Section 13: Data Driven FrameWork**

- Interacting with Database
- Interacting with Property File
- Interacting with XML
- Interacting with Excel

### **Real Time Practicals**

- Retrieving values from the property file and perform end to end scenarios in live projects.
- Reading and writing values from the excel file and perform end to end scenarios in live projects.

## ✦ **Section 14: TestNG FrameWork**

- How to Install TestNG plug-in in Eclipse?
- TestNG Annotations
- TestNG sample script
- Selenium testing script from scratch
- Creating Test suites using TestNG
- Reports generation using TestNG
- Parameterized test cases using TestNG framework
- Preparing TestNG Parallel Suite
- Running test multiple times, depends on Methods, Grouping
- TestNG Listener Sample Program

### **Real Time Practicals**

- Implementing the live project using TestNG

## ✦ **Section 15: Cucumber FrameWork**

- Test Driven Development (TDD)
- Cucumber & Behavior Driven Development
- Gherkin – Business Driven Development
- Cucumber BDD for Testing
- Install Cucumber Eclipse Plugin
- Download Cucumber for Eclipse
- Download Webdriver Java client
- Configure Eclipse with Cucumber
- Cucumber Selenium Java Test
- Feature File
- JUnit Test Runner Class
- Gherkin Keywords
- Step Definition
- Cucumber Options
- Parameterization in Cucumber
- Data Driven Testing Using Examples Keyword
- Data Tables in Cucumber
- Maps in Data Tables
- Tags
- Hooks
- Tagged Hooks
- Execution Order of Hooks
- Background Keyword

### **Real Time Practicals**

- Implementing the live project using TestNG

## ✦ **Section 16: Page Object Model Design Pattern**

- Why Page Object Model & When it will be effective
- POM Design Rules
- POM Implementation of Rules
- Implementation of testcases using POM framework

## ✦ **Section 17: Reporting**

- Methods in Extent Report
- Extent Report Implementation

### **Real Time Practicals**

- Generating the live report which include failure screenshots

## ✦ **Section 18: Build Tools**

- Maven Features
- Maven Build Process and Dependencies
- Maven Automation Project Build
- Best Practices

## ✦ **Section 19: CI Tools**

- Install Jenkins
- Setup Maven Project in Jenkins
- Schedule the build
- Best Practices

# TOOLS

## Tools Covered

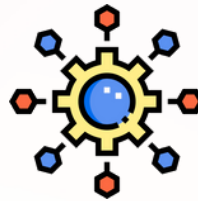
API



Playwright



Microservice



SOAP UI



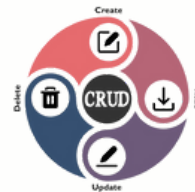
Karate - BDD



TOSCA



CRUD



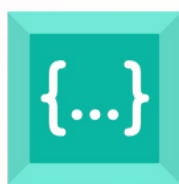
TestNG



Cucumber  
FrameWork



Codeium



Database



Testim



Katalon



FrameWork



Swagger  
docs



# OUR HIRING PARTNERS



# Earn your Full Stack Course Completion Certificate

Credo Systemz's certificate is highly recognized by  
30K Global companies around the world.



# WHAT OUR **TRAINEE** SAYS?



**Santhosh**

**4.7** ★★★★★

Credo Systemz provided a great learning experience. The Playwright course was detailed, with real-world examples and hands-on projects. The trainer's support made learning smooth and effective. Very useful for professionals.



**Fathima Banu**

**4.2** ★★★★★

Excellent Playwright with java training at Credo Systemz. The trainer explained every topic step by step, with coding practice. Assignments made concepts clear. I now feel confident applying automation testing at work.



**Prakash Jain**

**5.0** ★★★★★

Great experience at Credo Systemz! The Playwright course was industry-focused, with hands-on coding and project practice. Daily assignments helped me master concepts quickly. Very good institute for learning automation testing.



**Saindhavi**

**4.9** ★★★★★

I learned Playwright with Java at Credo Systemz. The trainer was supportive, cleared doubts patiently, and encouraged practice. The course was well-structured and practical, helping me gain strong automation testing skills.



**Jesuraj. F**

**4.0** ★★★★★

Credo Systemz provided excellent Playwright with JavaScript training. Practical sessions, clear explanations, and useful examples made learning automation much easier.



**Anjali Ravi**

**4.5** ★★★★★

Very satisfied with the Playwright with JavaScript training. The trainer explained topics clearly, with live coding examples. Daily tasks made learning easier. Credo Systemz is highly recommended for automation learners.



# CHENNAI

## VELACHERY

New # 30, Old # 16A, Third Main Road, Rajalakshmi Nagar, Velachery, (Opp. to Murugan Kalyana Mandapam), Chennai – 600 042.

 +91 98844 12301

## OMR

Plot No.8, Vinayaga Avenue, Rajiv Gandhi Salai, (OMR), Okkiampettai, (Behind Okkiyampet Bus Stop) Chennai – 600 097.

 +91 96001 12302

# OVERSEAS

## USA

Houchin Drive, Franklin, TN -37064. Tennessee

## UAE

Sima Electronic Building, LLH Opposite, Electra Street – Abu Dhabi