Full-Stack QA Automation
Playwright, Postman & AI

A specialized 6-month training designed for the modern SDET role. Master the industry's most powerful toolset: Playwright for UI, Postman for API, and Generative AI for workflow efficiency.

Playwright (TS)

End-to-End automation with TypeScript, Fixtures, and Parallel Execution.

Postman API

Advanced API testing, Newman integration, Collections, and Monitor setup.

AI Agents

Self-healing tests, AI-generated code, and Playwright MCP Servers.

Admissions Open at Saket Branch

+91 9217177094

Comprehensive Module Breakdown

1 QA Foundation & Agile

- SDLC models (Waterfall vs Agile) & STLC phases
- Jira: Creating Epics, User Stories, and Backlogs
- Test Scenario vs Test Case vs Test Script
- Bug Life Cycle & Severity/Priority Matrix
- RTM (Requirement Traceability Matrix)

2 TypeScript for Automation

- Node.js setup & Package.json management
- ES6+ Features: Arrow functions, Destructuring
- Asynchronous JS: Promises, Async/Await
- TypeScript: Interfaces, Types, Generics
- Modules, Imports, and ESLint configuration

3 Playwright (Deep Dive)

- **Locators:**

  Chaining, Filtering, XPath, CSS
- **Actions:**

  Drag-Drop, Hover, Keyboard/Mouse
- **Advanced:**

  Handling Shadow DOM & Iframes
- **Framework:**

  POM (Page Object Model) Design
- **Utilities:**

  Global Setup, Fixtures, Storage State
- **Config:**

  Parallelism, Retries, Sharding

5 Database & Docker

- **SQL:**

  Joins, Primary/Foreign Keys, CRUD
- **MongoDB:**

  Querying NoSQL documents
- **Validation:**

  Verifying DB state vs UI data
- **Docker:**

  Images, Containers, Volumes
- **Docker Compose:**

  Spinning up test environments

6 CI/CD & DevOps

- **Git:**

  Branching strategies, Merge conflicts, PRs
- **Jenkins:**

  Creating Freestyle & Pipeline jobs
- **GitHub Actions:**

  YAML workflows for testing
- **Reporting:**

  Allure Report integration
- **Scheduling:**

  Cron jobs for nightly runs

7 AI-Driven QA (Next-Gen)

- **Generative AI:**

  Using Copilot/Cursor for code
- **Self-Healing:**

  Implementing AI locators
- **Visual Testing:**

  AI-based comparison
- **Playwright MCP:**

  Connecting LLMs to Browser
- **n8n:**

  Automating Jira ticket creation

(4) API Testing: Postman & Playwright

- **Postman:**

  Collections, Environments, Variables
- **Automation:**

  Pre-request scripts & Tests (Chai.js)
- **CLI:**

  Running collections with Newman
- **Playwright API:**

  APIRequestContext methods
- **Auth:**

  Handling OAuth2, JWT, and Cookies
- **Mocking:**

  Network interception & Route mocking

(8) Internship Projects

- Live E-commerce Automation Framework
- Banking App API Security Testing
- Integrated CI/CD Pipeline Setup
- Client Reporting & Communication

Technical Stack & Career Support

Tool Stack You Will Master

Playwright TypeScript Postman Newman Docker Jenkins GitHub Actions

ChatGPT API n8n MongoDB SQL Jira Allure Reports

Internship Details

Company: i3Infosoft Pvt. Ltd.

Duration: 6 Months

Role: QA Automation Intern

Perks: Monthly Stipend, Real Project Experience Letter, PPO possibility.

Placement Assistance

• Resume Building & LinkedIn Optimization

• 20+ Mock Interviews (Technical + HR)

• 100% Placement Support

• Portfolio Creation

Secure Your Future in Automation.