Topics covered in the Course

- 1) Core Java programming
- 2) Selenium Java + TestNG Framework + GIT + Jenkins + Docker
- 3) Rest API Testing with Postman
- 4) Rest API Automation with RestAssured Java
- 5) Performance Testing with JMeter

Duration of the course: 6 to 7 months, Recordings would be available in the course section

Weekend Batch - Live Classes

Saturday and Sunday – 5PM IST (2 hours each day)

SYLLABUS of the course in detailed

- 1) Core Java Programming 20 hours (1.5 months)
 - a. Introduction to Java,
 - i. JDK vs JRE vs JVM
 - ii. JDK Installation
 - iii. Eclipse IDE Installation
 - b. Variables and Data Types in Java
 - c. Operators in Java
 - i. Arithmetic +-*/%
 - ii. Relational > >= < <= != ==
 - iii. Logical && || !
 - iv. Increment and Decrement ++ --
 - v. Assignment = += -= *= /= %=
 - vi. Ternary ?:
 - d. Conditional Statements if elseif else, switch case
 - e. Loops while do-while for
 - f. Arrays (Single and Two Dimensional)
 - g. Strings in Java
 - h. OOPS Concepts
 - i. Classes
 - ii. Objects
 - iii. Abstraction
 - iv. Encapsulation
 - v. Inheritance
 - vi. Polymorphism
 - i. Java Keywords this, static, super and final
 - j. Access Modifiers
 - k. Exception Handling try, catch, finally
 - I. Type Casting Up Casting and Down Casting
 - m. Java Collections ArrayList, HashSet, HashMap

- 2) Selenium 25 hours (2 months)
 - a. Launching Browsers
 - b. WebDriver methods get, navigate, getTitle, getCurrentURL, findElement, findElements.
 - c. Working with Locators
 - i. Id, Xpath, Css, Name, LinkText, Partial LinkText, Class, TagName
 - d. WebElement methods getText, sendKeys, click etc.
 - e. WebDriver Waiting Strategies
 - f. Selenium Exception Handling
 - i. NoSuchElementException
 - ii. StaleElementReferenceException
 - iii. Element Intercepted Exception
 - g. Handling frames
 - h. Handling windows
 - i. Handling alerts
 - j. Handling checkboxes
 - k. Handling dropdown
 - I. Handling Dynamic WebTables
 - m. Handling Calendar
 - n. Mouse Actions Mouse Hover, Right Click, Double click, Drag and Drop
 - o. Keyboard Actions
 - p. JavaScriptExecutor scenarios
 - q. Capture Screenshots
 - r. Headless Browser testing
 - s. Handle SSL Certificate
 - t. Handling Broken Links
 - u. Handling SVG Elements
 - v. Handling Shadow DOM
 - w. Working with Excel files Apache POI
- 3) TestNG framework 8 hours (2 weeks)
 - a. Annotations
 - b. Assertions
 - c. Data Provider
 - d. Parameters
 - e. Parallel Execution
 - f. Listeners rerun failed tests
- 4) Selenium with TestNG framework using Page Object Model pattern (3 weeks)
- 5) CI CD tools: GIT + Jenkins + Docker 3 weeks
 - a. GIT Commands, Feature Branching, Release process, Merge request (code review process)
 - b. Jenkins Schedule jobs
 - c. Docker Selenium Grid Docker Execution

Syllabus to be updated for below topics – 2 months

- 6) Rest API Testing with Postman 3 weeks
- 7) Rest API automation using RestAssured with framework 1 month
- 8) Performance Testing with JMeter 2 weeks

Additional Sessions on below topics

- 1) Interview Preparation Coding and Automation
- 2) Job search strategies
- 3) LinkedIn Premium Jobs
- 4) Salary Negotiations
- 5) Prompt Engineering for QAs
- 6) Resume Preparation, Templates
- 7) LinkedIn Profile Optimization