SDET(FULL STACK AUTOMATION COURSE)

WHAT YOU GET

- 6 weeks of Basic + 2 weeks of Advanced Automation Course training
- 10 hours weekly training
- 5 days online access to teacher
- Online Training with a Live Instructor
- Recorded class videos
- Required Automation Testing software's will be provided

WHAT YOU'LL LEARN

BASIC AUTOMATION COURSE: SELENIUM WITH JAVA (6 WEEKS)

Module 1: Overview on Automation

Module 2: Java Programming for Selenium

Module 3: Java Object Oriented Programming

Module 4: Selenium WebDriver

Module 5: TestNG

Module 6: Extent Reports, Page Object Model & Page Factory

Module 7: Maven Integration with Selenium

Module 8: Automation Frameworks

Module 9: Continuous Integration (CI) - Maven, Jenkins, GIT & Github

ADVANCED AUTOMATION COURSE (2 WEEKS)

Module-10: Cucumber BDD Framework

Module-11: API Testing using Rest Assured

BONUS: SELF-PACED RECORDED VIDEOS:

- Appium for Mobile App Testing
- JMeter for Performance & API Testing

AUTOMATION TESTING (BASIC COURSE)

Module 1: Overview on Software Testing & Automation

- What is Software testing?
- Ways of Software Testing
- Challenges in Manual testing
- Use of automation Testing
- Tools for Automation Testing
- What is Selenium?
- Features of Selenium
- Limitations in Selenium

Module 2: Java Programming for Selenium

- Download and install Java
- Setup Java Environment
- How to use Eclipse/IntelliJ IDEA
- Basic Java Program
- Compile and run a Java program
- Understanding console output
- Java Variables and Data Types
- Java Operators
- Conditional statements
- Looping statements
- Single Dimensional array
- Double Dimensional array
- Object class
- String Class
- String methods

Module 3: Java Object Oriented Programming

- Classes and Objects
- Java methods
- Passing parameters to the methods
- Call by value and call by reference
- Java Constructor
- Method Overloading
- Constructor Overloading
- this, final keywords
- Static variables and methods
- Java Inheritance
- Method Overriding
- Java Interfaces
- Access Modifiers
- Java Packages
- Exception Handling
- Array List
- Hash Map
- JDBC

Module 4: Selenium WebDriver

- Download WebDriver API
- Create WebDriver Project in Eclipse
- Create WebDriver test case
- Execute test case on multiple browsers
- Locators
 - What are locators?
 - Types of Locators
 - Capturing XPath in different ways
 - How to use ChroPath in Chrome

- Types XPath
- Writing XPath
- Built-in functions in XPath
- Handling Dynamic elements using XPath
- WebDriver commands
 - Browser commands
 - Get commands
 - Switching commands
 - Navigation commands
 - Conditional commands
 - Implicit, Explicit and Fluent Waits
- Handling Web Elements
 - Textbox/Input box
 - Links
 - Radio Button/Checkbox
 - Dropdown box/Combo box
 - Multi Select dropdown
 - List box
 - Calendar/Date Picker
 - Web Links
 - HTML frames/Iframes
 - Web/HTML Tables
- Mouse actions using Actions class
 - Mouseover
 - Mouse double click
 - Mouse right clicks
 - Drag and Drop
 - Handling Slider/scroll bar
 - Resizing

- Handling Tooltips
- Keyboard actions
- Working with Robot Class
- Working with Sikuli
- How to use JavaScript Executor
- Browser profiles
- Desired Capabilities
- Handling cookies
- Headless browser testing
- Capturing Screenshots
- Data Driven Testing in Selenium
 - What is data driven testing?
 - Apache POI API
 - Data Driven Tests using multiple sources
 - Excel/csv files
 - Java HashMap
 - Databases
 - Text files
- · Log4j for logging

Module 5: TestNG

- What is TestNG? Features of TestNG
- Install TestNG in Eclipse
- How to write TestNG Test case
- Annotations in TestNG
- Understanding testng.xml
- TestNG html Report
- Prioritizing tests
- dependsOnMethods
- Skipping tests

- Grouping methods
- Parameterization
- Passing parameters using xml
- Parallel testing
- Data Provider
- Invocation methods
- TestNG Listeners

Module 6: Extent Reports, Page Object Model & Page Factory

- Generating Extent Reports
- Page Object Model Creating Page objects
- Page Factory @FindBy annotation

Module 7: Maven Integration with Selenium

- What is Maven and Why Maven?
- Installing/Configuring Maven
- Creating Maven Project
- Importing Maven Project into Eclipse
- What is POM.xml?
- Adding Dependencies to POM.xml

Module 8: Automation Frameworks

- What is Framework?
- Various Types of Frameworks
- Implementation of Hybrid Driven Framework from the scratch
 - Creating Maven Project
 - Update pom.xml with dependencies
 - Creating page objects and Object repository
 - Creating utility files
 - Setting up configuration files
 - Creating automation test scripts
 - Creating data driven test scripts

- Generating extent reports
- Generating logs using log4j
- Execute test scripts
- Emailing test reports
- Execute test scripts through Maven
- Execute test scripts using bat file

Module 9: Continuous Integration (CI) - Maven, Jenkins & GIT

- What is Continues Integration?
- Continuous Integration Tools
- Download and install Jenkins
- Maven integration with Jenkins
- Run selenium test scripts through Jenkins
- Downloading and Installing GIT
- Installing GIT and GITHUB plug-ins for Jenkins
- Git commands
- Uploading project to Github

AUTOMATION TESTING (ADVANCED COURSE)

Module-10: Cucumber BDD Framework

- Cucumber Introduction
- TDD (Test Driven Development) Vs BDD (Behavior Driven Development)
- Set Up Cucumber with Eclipse
- Install Cucumber Eclipse Plugin
- Download Cucumber JVM for Eclipse
- Cucumber Selenium Java Test
- Cucumber Environment
- Setting Up Cucumber with Selenium

- Cucumber Gherkins languages
- Cucumber Features file
- Cucumber Scenarios
- Cucumber Annotations
- Cucumber Scenario Outline
- Cucumber Tag
- Cucumber Data Tables
- Parameterization in Cucumber
- Cucumber Comments
- Cucumber Hooks
- Cucumber Command Line Options
- Cucumber JUnit Runner
- Cucumber Reports generation both Html report and Json report

Module-11: API/Webservices Testing

- Basics of API & Web services Testing
- What is Client and Server?
- Client Server architecture
- Presentation, Business & Database Layer
- What is Request & Response
- What is API Testing
- API Testing VS Unit Testing
- What is Web Service
- Difference between API & Web service
- Components of Web services (WSDL & UDDI)
- SOAP VS Rest services
- API/Web service testing challenges
- Web Service API testing tools
- Web services API Testing process
- HTTP Methods (GET/POST/PUT/DELETE)

- Status Codes
- Examples of Web service API's

Postman

- Download and Install Postman
- Creating Requests and Analyzing Response
- Request Parameters in Postman
- Postman Collections
- End to End test case (GET, POST, PUT, DELETE)
- Test and Collection Runner in Postman
- Workflows in Postman
- Variables in POSTMAN
- Environment/Global variables
- How to share collections in workspaces
- Data Driven testing using Json & CSV files
- Run Postman tests in command Line
- Generating Reports in Postman
- How to handle SOAP Web service Requests in Postman

Rest Assured API

- Introduction to HTTP methods
- REST Assured Setting up environment (Eclipse, Maven & TestNG)
- Send GET request using REST-Assured
- Send POST request using REST-Assured
- Send PUT request using REST-Assured
- Send DELETE request using REST-Assured
- REST-Assured Extracting values from the response.
- Validating Response codes and status line
- JSON Schema Validation
- Validating Headers
- Rest Assured End-to-End Test Cases

- Data Driven test cases
- How to run API tests using Maven CLI
- Generating reports
- Run Rest Assured tests in Jenkins