Web Automation Testing

KEN
SCOT SAP SERVICES

Empowering Your
Business With Future-
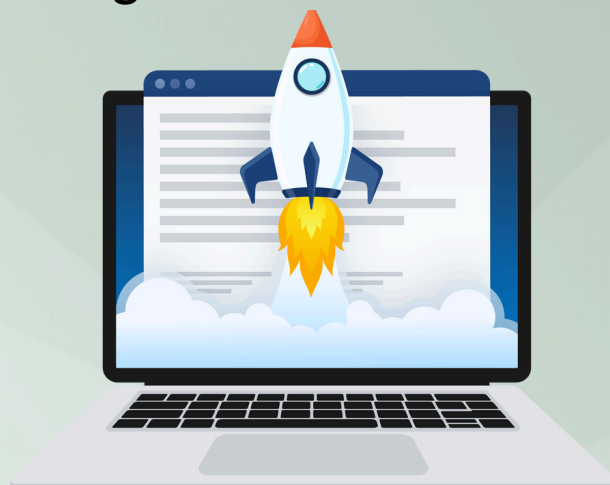Ready Technology

www.kentrainings.online

Course Details

✅ **Duration - 30 Days**
✅ **Format - Lectures + Hands-on Practical Sessions**
✅ **Training Type – Classroom Training**

Course Modules Include:

◆ **Java Basics to Advanced OOPs**
◆ **Selenium WebDriver & Real-time Use Cases**
◆ **XPath, Alerts, Drop-downs, Tables, Frames**
◆ **Data-Driven Testing with Excel**
◆ **TestNG Framework & Reporting**
◆ **Hybrid Automation Frameworks**
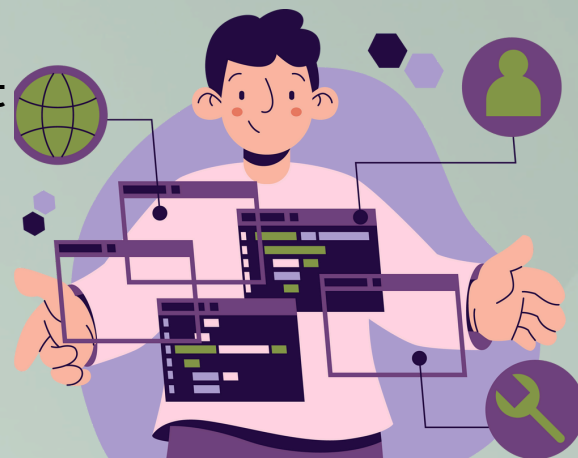◆ **GitHub, Jenkins & Docker Integration**

Course Outline

Module 1: Introduction to Automation

- **Challenges in Manual Testing**
- **Overcoming Challenges with Automation**
- **Importance of Programming in Automation**
- **Introduction to Selenium**
- **Selenium Components**
- **Advantages and Disadvantages of Selenium WebDriver**

Module 2: Introduction to Java | JDK & Eclipse Installation | Java & Selenium

- **Java and Eclipse Environment Setup**
- **Setting up Java Development Kit (JDK)**
- **Installing Eclipse IDE**
- **Configuring Java and Eclipse Environment**
- **How to Write Basic Java Program**
- **Creating a Java Class**
- **Writing the First Java Program**
- **Compiling and Running Java Programs**
- **Understanding Console Output**

Module 3: Working with Java Variables and Data Types

- **Java Variables and Data Types**
- **Declaring Variables in Java**
- **Primitive Data Types (int, float, double, char, boolean)**
- **Variable Naming Conventions**
- **Operators and Expressions**
- **Conditional Statements**
- **Loops & Jump Statements**
- **Arrays – Single & Two Dimensional**
- **Coding Examples on Arrays**
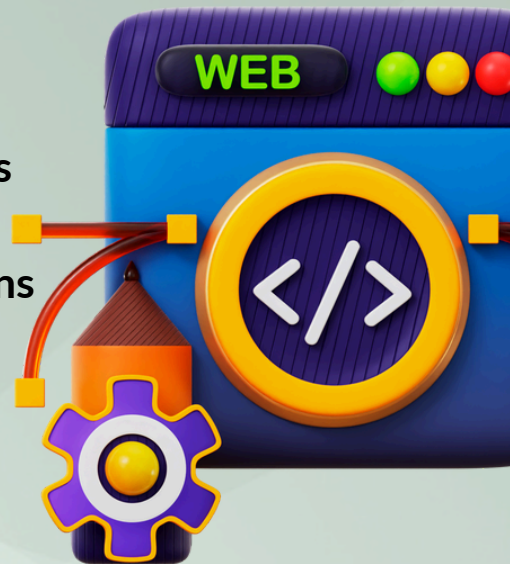- **Strings and String Methods**

Module 4: Java OOPS Concepts

- Class, Object & Methods
- Java Methods & Constructors
- Polymorphism & Encapsulation
- Usage of this and static Keywords
- Inheritance and Types of Inheritance
- Method Overriding, final & super Keywords
- Data Abstraction & Interface Concept
- Wrapper Classes, Packages, Access Modifiers
- Exception Handling (Try, Catch, Finally)
- Type Casting – Upcasting & Downcasting
- Java Collections: ArrayList, HashSet, HashMap

Module 5: Selenium with Java

- Introduction & Environment Setup
- Locators: ID, Name, LinkText, PartialLinkText, Class & Tag
- Locators: CSS Selector
- Locators: XPath, XPath Functions & Types
- XPath Axes & SelectorsHub
- WebDriver Methods
- WebDriver Waiting Methods
- Browser & Navigation Commands
- Handling Checkboxes & Different Types of Alerts
- Handling Frames/iFrames & Nested iFrames
- Handling Drop-downs & Auto-suggest Dropdowns
- Handling Static & Dynamic Web Tables
- Handling Pagination & Date Pickers
- Mouse Actions: Action vs Actions
- Keyboard Actions, Sliders, Tabs & Windows
- JavaScriptExecutor – Scrolling, Uploading Files
- Screenshots, Headless Browsers, SSL, Ad Blockers, Extensions
- Handling Broken Links, SVG Elements & Shadow DOM

Module 6: Data Driven Testing

- **Working with MS Excel**

Module 7: TestNG Framework

- Integration & Setup | @Test Annotation
- Types of Annotations & Assertions
- Dependency Methods & Grouping Tests
- DataProviders & Parallel Testing
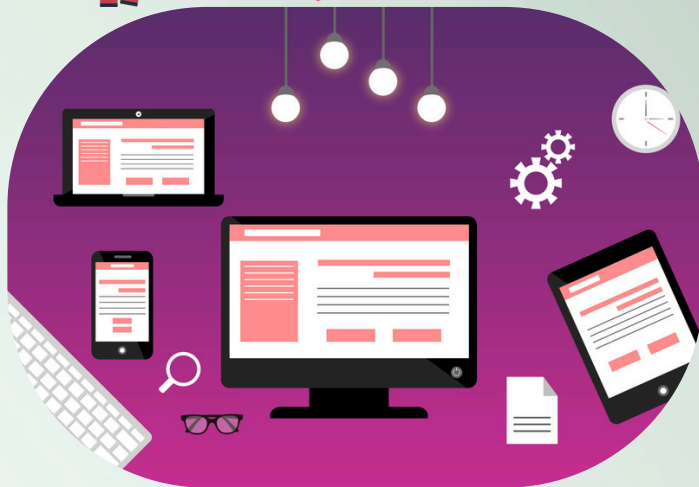- Listeners & Extent Report Generation
- Page Object Model Pattern

Module 8: Hybrid Automation Framework

- Page Object Model (POM)

Module 9: Hybrid Framework Advanced Topics

- Logs & Properties
- Cross Browser Testing
- Data Driven Tests using Apache POI
- Grouping Tests & Extent Reports
- Running Tests on Selenium Grid
- Docker Integration with Selenium Grid
- Git & GitHub Workflow
- Jenkins Continuous Integration Setup

NEED MORE DETAILS ? :

GET IN TOUCH WITH US!

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