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Selenium Training in Chennai – Course Syllabus

Chapter 1: Introduction about Selenium Automation

- Introduction about Testing
- Why and When Automation?
- Need of test Automation
- Selenium Introduction – What is Selenium and Why Selenium?
- Introduction of Selenium Components

Chapter 2: Introduction about Java installation

- Introduction about Java. Where it is used?
- History of Java. Why java name for java language?
- Difference between JDK, JRE and JVM
- Variables and Datatypes in Java

Chapter 3: Basic Java OOPs concepts

- Object and Class in Java
- Constructors and Methods
- Arrays and Keyword
- Inheritance and Types
- Types of Polymorphism

Chapter 4: Method overloading and Constructor

- Anonymous object
- Method overloading in Java
- Constructor in Java

Chapter 5: Static Keyword and Inheritance in Java

- Java static keyword – Static variable, static method and static block
- Inheritance and its types in Java

Chapter 6: This & Super keywords and Method Overriding

- Use of This and Super keywords

- Method overriding in Java
- Polymorphism in Java
- Final keyword in Java

Chapter 7: Introduction about Abstraction

- Abstraction in Java
- AbstractClass Vs Interface

Chapter 8: Access Modifiers and Java package

- Access Modifiers
- Java Package

Chapter 9: Encapsulation and Exception Handling

- Encapsulation in Java
- Exception Handling
- Arrays and Looping Concepts

Chapter 10: Configuration about Selenium WebDriver

- Introduction about Selenium WebDriver
- Advantages of Selenium & Architecture of Selenium Webdriver
- Download and Configure WebDriver with Eclipse
- Setup firebug for Firefox
- Develop simple script in Eclipse
- IDE Overview & Selenium-Grid RC Overview

Chapter 11: Basic commands in Selenium WebDriver

- Detailed discussion about WebDriver commands
- Installing IDE, IDE Context Menu, Adding IDE Comments & IDE icons
Assert & Write Your Own IDE script without record and playback
- Cross Browser Testing – IE ,Chrome & Recording your first test with IDE
- Headless Browser testing

Chapter 12: Locators in Selenium Web \Driver

- Object locators / Identification & Selenium Internal Architecture
- Drivers for Firefox, IE, Chrome, Opera, Safari and HTML Unit Driver.
- Detailed about id, name, className and tagName locators
- Installing and configuring Eclipse for Web Driver.
- Locators In Selenium(ID, Class Name, Partial Link Text, Name, Link Text)

Chapter 13: xpath and cssSelector locators

- Detailed about xpath and cssSelector locators

Chapter 14: Switching between windows

- How to handle the multiple windows (browsers) in Selenium WebDriver
- Handling Frames, pop-ups and Alerts

Chapter 15: Mouse movements and Keyboard events

- Handling mouse over actions
- Handling keyboard events

Chapter 16: Introduction about TestNG framework

- Introduction about TestNG framework
- Configure TestNG into Eclipse
- TestNG Annotations
- TestNG Sample scripts & 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 sampleProgram

Chapter 17: TestNG class and Assertion

- Create test using TestNG
- Assertion in TestNG

Chapter 18: TestNG xml and Advance TestNG

- Concept of Testing - XML
- Advance TestNG

Chapter 19: Parameters and Data provider

- Parameter and Data provider annotations
- Parallel testing in Testing

Chapter 20: Maven & Jenkins

- Maven Features & Maven Build Process
- Dependencies & maven Automation
- Project Build & CI Tools

- Install Jenkins & Schedule the build
- Setup Maven Project in & Jenkins

Chapter 21: POM Design and Pattern

- Why Page Object Model
- When it will be Effective
- POM Design Rules
- POM Implementation of Rules
- Implementation of Test Cases
- using POM Framework

Warm Regards

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