



Curriculum Of Selenium

CORE JAVA

- Basics of Java
- Introduction
- Conditional Statement : IF Else
- Switch or Loops

OOP'S CONCEPT

- Abstraction
- Class
- Objects
- Inheritance
- Polymorphism
- Encapsulation

KEYWORDS

- Static
- Final
- This
- Super

EXCEPTION HANDLING

- What are Exceptions in Java
- Types of Exceptions
- Checked vs Unchecked Exception
- Finally
- Try
- Catch
- Throw
- Throws

ECLIPSE IDE

- Download and Install Java
- Download and Start Eclipse IDE

MAVEN

- Maven Introduction
- Install Maven in Eclipse IDE
- Install Maven on windows
- Install Maven on Mac



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- How to Create a New Maven Project
- How to Create a New Maven Project in Eclipse
- Configuration of POM & set multiple builds

SELENIUM

- What Is Automation Testing
- Use of Automation Testing
- Tools for Automation Testing
- Why Automation is Important for your career?
- What is Selenium.
- Advantage of Selenium
- Component of Selenium
- Architecture of Web Driver
- Download and Configure WebDriver Java Client
- Set up a project
- Create packages
- Create a First Java Test case
- Import Web Driver Source File
- Web Driver Interface
- Web Element Inteface
- Launching Browser
- How to open a URL
- Verify Page title
- Strategy to get the Page Source
- Difference between Close & Quit
- Ways to Navigate Back & Forward
- How to Refresh Page
- Another way of Navigating to specific Page

SCRIPT WRITING

- What are locators
- ID
- Name
- Xpath
- CSS Etc.
- Difference between Absolute & Complete X path.
- Finding Your first element
- Web Element Commands
- Finding the Href & Src broken link



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- Element Identification
- Tables, Checkboxes & Radio buttons
- Selenium Waits
- Alert & Switch Windows
- Select Class in Selenium
- Drop Down Handle
- Select multiple values from the list.
- Select & Deselect operations by Index
- Value & Visible Text.
- Implicit and Explicit waits
- How to use Expected Conditions with Waits
- Page Load Timeout & Set Script Timeout Property
- Simple use of Thread Sleep
- Concept of Fluent Wait in Selenium
- Web Driver Wait and its uses
- Different Wait Until Conditions
- Ways to Handle Simple
- Confirmation & Prompt Alert
- Concepts of Set Interface in Java
- Difference between Window Handle & Handles
- Switching & Closing Windows
- Tabs & Popup's
- Concept of Window ID
- Extracting Window IDs with Selenium Object reference
- Java Script Executor Interface
- Captured Screenshot
- Cookies Handles
- What is Action Class & What can we do with Action Class
- Mouse Hover & Mouse Movement with Action
- Finding Coordinates of a web Object
- Drag and Drop Action

AUTOMATION FRAMEWORK

- What is Automation Framework
- Features of Automation Framework
- Benefits of Using Automation Framework
- Different Types of Automation Framework
- What is Data Driven Framework
- Define the manually static Xpath.



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- BDD Framework
- Apache POI API
- POI Setup and Configuration
- Read and Write Excel file with Apache POI
- POM (Page OBJECT Model)
- Page Factory

TESTING FRAMEWORK

- Introduction to Testing and Testing Set Up
- Annotations in Testing
- How to run Test Suite in Testing
- Groups in Testing
- Depend on in Testing
- Testcase sequencing in Testing
- Depend on in Testing
- Testing Asserts
- Testing Parameters
- Multi Browser testing in Testing
- Parallel testing in Testing
- Extent Report API

LOG4J LOGGING

- Log4J Introduction
- Download Log4J
- Add Log4J Jar
- Test Case with Log 4j
- Log4j Log Manager
- Log4j Appenders
- Log4J Loggers

J UNIT

- Introduction to J unit
- J unit dependency of Mavens
- Junit annotations
- Basic Example of J unit

AUTOMATION TOOLS

- Jmeter
- Jenkins



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JENKINS

- Jenkins Introduction
- Selenium Integration with Jenkins

JMETER

- Introduction To Jmeter
- Performance Testing Using Jmeter

DATABASE CONNECTION

- Database connection
- Database Testing in Selenium using My Sql Serve