SELENIUM WEBDRIVER

❖ **Introduction to Automation testing**

❖ **Introduction on Selenium (IDE,RC and Webdriver)**

❖ **Difference between Selenium Webdriver and QTP**

❖ **Java Core Concepts needed for Automation testing**

OOPS concepts.

Conditions and loops.

Access and non-access modifiers.

Interfaces, Inheritance.

Exception handling.

Collections.

❖ **Automation Installation and setup:**

Java

Selenium client libraries

Eclipse IDE

Java Project

Maven Project

❖ **Selenium Webdriver Configuration:**

Selenium Webdriver Architecture

Download and Configuration of Selenium webdriver with Eclipse

Java Project setup and configuration

Maven Project setup and configuration

Java project Vs Maven project

❖ **Selenium webdriver Key-Concepts:**

LaunchBrowser

Headless browser testing using HTMLUnitDriver and Phantom js

Locators - Complete intro on all the Locators and provide training to write Xpath

Find Element and Find Elements

Web table Handling

Window Handling

Frames Handling

Alerts Handling

Dropdown in web pages

Validation Commands

Mouse Keyboard Actions

Waits in Selenium webdriver

Handling ToolTip

File_Upload

Screenshot capturing

Apache POI - Read/Write Excel file

❖ **Selenium Grid**

Introduction to Selenium Grid

Selenium grid setup and configuration

❖ **Testing Framework and Designing**

Testing Framework introduction and need of framework

Types of frameworks

TestNG Framework and Configuration with eclipse

Page Object Model design pattern

❖ **JENKINS - Continuous Integration Tool**

Jenkins Introduction

Installation, Setup and Configuration of Jenkins

Jenkins Configuration

TestNG Integration with Jenkins

Maven Integration with Jenkins

Selenium + TestNG + Maven + Jenkins Integration

❖ **Miscellaneous:**

Selenium webdriver Interview question discussions

Tips to explain your project structure by integrating the automation concepts

Will provide knowledge about the Roles and Responsibilities of Automation Test Engineer

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