Module Name: Selenium WebDriver (Automation Testing)

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Total Sessions: 19

Selenium WebDriver

* Introduction of Automation
* Need of Automation
* Process of Automation
* Introduction Selenium
  + Selenium IDE
  + Selenium Grid
  + Selenium RC
  + Selenium WebDriver
* Introduction to Selenium WebDriver
* Configuration
* Basic methods of WebDriver
  + Launching the different browsers
  + get()
  + getTitle()
  + getCurrentUrl()
  + getPageSource()
  + close()
  + quit()
* Locators (Identifying the controls)
  + Name
  + Id
  + ClassName
  + CssSelector
  + XPath
  + LinkText
  + PartialLinkText
  + TagName
* Handling Controls
  + Text Box
  + Command Button
  + Radio Button
  + Check box
  + Dropdown list
  + List Box
  + Links
* Synchronization
  + Thread.Sleep()
  + ImplicitWait
  + ExplicitWait
  + FluentWait
  + PageLoadTimeout
* Handling table
* Handling multiple browser windows
* Handling file upload
* Robot class
* Handling alerts
* Handling mouse actions
  + Hover
  + Click
  + Right click
  + Double click
  + Drag and drop
* JavascriptExecutor
* Handling menus
* Screenshots

TestNG

* Introduction
* Installation / Configuration
* Writing single tests
* Writing multiple tests
* Setting the priority
* Annotations
  + @Test
  + @BeforeTest
  + @AfterTest
  + @BeforeMethod
  + @AfterMethod
* Data driven testing via @DataProvider
* Modular framework
  + Execute single test / multiple tests
  + Skipping single test / multiple tests
  + Executing / skipping groups
  + Executing single class /multiple classes
* Parameterization
* Keyword Driven framework
* Page Object Model (POM)
* Data Driven Framework via Apache POI

Maven

* Introduction
* Creating the project
* Adding dependencies
* Maven Architecture
* Execution of project

Cucumber

* Introduction to BDD
* Configuration
* Components of Cucumber
  + Feature file
  + Step Definition
  + Runner Class
* Keywords
  + Feature
  + Scenario
  + Background
  + Given
  + When
  + Then
  + And
  + Examples
  + Scenario Outline
* Tags in Cucumber
* Hooks in Cucumber
* Data driven framework via Cucumber

Java Revision

* Basics of language
  + Variables
  + Data Types
  + Conditions
    - If
    - If else
    - Nested if else
    - Switch case
  + Loops
    - For Loop
    - While
    - Do – While
  + Writing and calling the function / methods
* Creating class and object
  + Constructor
  + Getter and setter methods
  + Static members and static methods
* Basics of Inheritance
  + extends keyword
* Exception Handling
  + throws keyword
  + try catch block
* Collections
  + List
  + Set
  + Map