





### **Introduction to Selenium**

- Introduction to Automation Testing
- Why Automation Testing
- ⇒ Introduction to Selenium components
- History and various versions of selenium
- ⇒ What is Selenium 3.0
- Advantages of using Selenium over other tools.

### Installation and setting up the environment

- ⇒ Installation of Python
- Automation Setup for Selenium Web Driver
- → Install and Configure IDE's

#### Selenium-IDE

- Introduction
- ⇒ IDE Features
- ⇒ Building & Running Test Cases
- Building and Running Test Suites

#### **Selenium Web Driver 2.0**

- Why Selenium Web Driver
- ⇒ What is a Driver
- Download & configuring Web driver
- Architecture of selenium web driver
- Drivers for Firefox, IE, chrome

#### **Identification of Locators**

- Tools to identify elements/objects
- Different methods of finding an element
- ⇒ By ID, By name, class
- By Xpath, By Tag name
- ⇒ By Link text
- ⇒ By CSS
- Using Effective X-path





#### **Selenium Commands**

- ⇒ Various types of operation that can be
- performed on any elements and how to use them.
- ⇒ Browser Commands, Navigation Commands
- ⇒ Working with a different browser
- ⇒ Handling Checkbox, RadioButton
- Dropdown and Select Operations
- Capturing Screenshots
- Handling Keyboard Event and Mouse Event
- ⇒ Alert & Pop Up Handling.

### **Wait Commands in Selenium**

- → Implicit Wait
- Explicit Waits, Expected Conditions

### **Framework Designing**

- ⇒ What is Framework
- Different Types of Framework.
- → How to Design a framework?
- Data-Driven Framework using Excel
- Reading and writing data from Excel
- Executing Testcases from Excel

# **PyTest Framework**

- Introduction to PyTest framework
- Installing PyTest
- PyTest Fixtures
- Parametrized Test Functions
- Running multiple tests using PyTest
- ⇒ Generating Test report





## **Unit Test Framework PyUnit**

- ⇒ Basic of pyunit
- pyunit Installation
- pyunit annotation
- ⇒ Test Case creation
- ⇒ Test Case execution
- ⇒ Assertions/Reporting Errors
- ⇒ Suite execution
- pyunit Reports
- ⇒ Using pyunit in Selenium

# **POM Framework**

- Advantages of POM
- ⇒ How to implement
- ⇒ Using Page Object and Page Factory

## **Continuous Build Integration tools- Jenkins**

- ⇒ What is Jenkins and how to use it
- ⇒ Installation and configuration of Jenkins





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