

# ***Selenium***

## **Topics:-**

- 1. Introduction**
- 2. Selenium WebDriver**
  - What is WebDriver
  - Setting up WebDriver
  - Architecture of WebDriver
  - Basics Of WebDriver
  - Browser commands
- 3. HTML**
- 4. Object identification**
  - Locators
  - CSS, XPath
  - Handling dynamic elements
- 5. Synchronization**
- 6. Handling Challenges**
  - Interactions: (Browser Interaction), Textbox, Text Area, Buttons, Radio button, checkbox, tool-tip interactions etc.
  - Handling dropdown list
  - Keyboard / mouse actions
  - Multi select action
  - Screen shot
  - Handling frames
  - Handling pop-ups
    - > HTML pop-ups
    - > Non-HTML pop-ups
- 7. Cross browser testing: IE, Chrome, Mozilla and Edge.**
- 8. Data driven testing in selenium**
  - POI and JDBC for Excel automation
- 9. Web driver event listeners**
- 10. POM**
- 11. TestNG**
  - Annotations
  - Grouping
  - Parameterization
  - Dependency injection
  - Parallel execution
  - Listeners
- 12. Extent report for generating the graphical reports**
- 13. Automation life cycle**
- 14. Workspace management/Base lining**
- 15. Project management tool: Maven**
- 16. Version control tool: Git hub**
- 17. Continuous integration tool: Jenkins**
- 18. Framework**

- ➔ **What is framework?**
  - ➔ **Types of framework?**
  - ➔ **Framework development**
- 19. Cross platform testing: Selenium Grid**