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Selenium Testing

Quick Contact

 Second Floor and Third Floor, 5/3 BEML Layout, Varathur Main Road, Kundalahalli Gate, Bengaluru, Karnataka 560066
www.traininginbangalore.com



 info@tibacademy.com

 +91 9513332306



Introduction:

- Introduction of selenium
- Selenium components
- How differs from other automation tools
- Advantages of selenium
- Overview of Testing framework
- Overview of Eclipse

Selenium Architecture

- Selenium RC Architecture
- Webdriver Architecture
- Webdriver Vs Selenium RC

Brief explanation about advantages of webdriver

- Locator Techniques
- Introduction about locator concept
- Introduction to HTML Language
- Brief explanation of different locator techniques
- Xpath techniques explanation with different kind of real time scenarios





Selenium IDE

- Download and Installation
- Record and playback techniques
- Modifying the script using IDE
- Validate the locator value using IDE

Selenium setup

- Explanation of step by step instructions for setup
- Integration of eclipse and TestNG

Selenium RC

- Start the selenium Selenium server
- Write the basic script of Selenium RC
- How to execute the scripts (different ways) and look the results
- Brief explanation of commands in selenium RC

WebDriver

- Webdriver setup
- Detailed discussion about webdriver commands
- Handling different browsers
- Create our own methods in webdriver
- More programming techniques in webdriver
- Project structure organization





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TestNG

- Brief about Testing framework and Testng
- Annotation concept and different types
- Testng Configuration
- Parallel script execution
- Grouping the testcases
- Parameter configurations
- Suite creation methodology
- Report generation
- Assertions
- Verifications
- Listeners in Testng
- Create customized report using Testng & Java

AutoIT

- Need of AutoIT tool
- Basics of AutoIT tool and create simple script
- Converting AU3 file to exe file
- Calling AutoIT script from selenium project

Selenium Grid

- Introduction of selenium Grid
- Installation and setup of Hub and node
- Script changes for Selenium grid execution
- Simple script execution using grid
- Parallel execution using grid





Version Control tool (GITHUB).

Dependency management tools/Build tools (MAVEN).

Introduction to Jenkins (CI/CD).





Other Activities

Assessments

- **Objective Assessments**

- Syntactical based
- Scenario based

Note: At least 2 objective based assessments in each module

- **Hands On – Practical Assessments**

- Scenario based

Note: At least 2 Hands on assessments in each module

Assignments

- **Hands On – Practical Assignments**

Note: At least 4 Hands on assignments in each module

Tasks – Home Work

- **Regular tasks on each module**

Note: Tasks are focused more to improve self learning

Resume Support & Interview Preparation

- **Work on one or two mini projects**
- **Discuss and convert the current working project into Selenium project to add in resume & to explain Selenium experience in interviews**