Selenium

Dear Student,

Based upon your enquiry we are pleased to send you the course curriculum for Selenium

Given below is the brief description for the course you are looking for:

- ➢ **What is Selenium; understand difference between RC and Selenium 2 and Selenium 3**

- ➢ **Selenium IDE:**

    - ✓ Recording and Play
    - ✓ Export recorded steps in java
    - ✓ Understand code structure
    - ✓ Setup environment

- ➢ **Understand Locators:**

    - ✓ id
    - ✓ name
    - ✓ cssSelector
    - ✓ xpath
    - ✓ link text
    - ✓ partial linkText
    - ✓ tagname
    - ✓ className

- ➢ **Check web element (Text box, Radio, checkbox etc) is enable/disable and displayed on page or not**

- ➢ **Check Radio button and Check box is selected or not**

- **Use keyboard, Mouse over, Handle java script alert, Handle page cookies, page refresh**

- **Run test in different (Firefox, IE, Chrome)**

- **Unit Testing Framework: JUnit**

  - ✓ Junit Annotations
  - ✓ Test Suite in JUnit
  - ✓ Understanding JUnit Results

- **Handle Ajax list, iFrame**

- **JAVA**

  - ✓ Class, Objects, Constructor
  - ✓ Method Overloading
  - ✓ Method Overriding
  - ✓ Exception Handling (try catch)
  - ✓ Inheritance
  - ✓ Super, Static, this keyword
  - ✓ Final, Finally and Finalize
  - ✓ Abstract classes and Interface
  - ✓ Collection Framework (List, Set, Hash map, Hash table)

- **Handle multiple browser windows, Web tables and Calendar**

- **Selenium Wait (implicit, Explicit, Fluent and ExpectedConditions)**

➢ Unit Testing Framework: TestNG

- ✓ TestNG annotations
- ✓ XML suite and parameterization
- ✓ Parallel test execution
- ✓ TestNG Listener
- ✓ Re-Run failed Tests

➢ Execute java Script(JavaScriptExecutor), Scroll browser window

➢ Take Screenshot
- ✓ when tests fail
- ✓ Specific Element
- ✓ Entire page

➢ Handle Flash Objects, Upload/Download Files using SIKULI

➢ Upload/Download Files using AUTOIT

Frameworks

- ✓ Data Driven/Hybrid Framework
- ✓ Read/Write Data from Properties and Excel File
- ✓ Building reusable methods
- ✓ Validation and Verification
- ✓ Generate Keywords and use in framework
- ✓ Generate reports (Extent Report)

➢ **CICD – DevOps, Build Automation Tools and Report Generation**

✓ *ANT (JUnit and TestNG XSLT Reports)*

- Understand build.xml
- Download and Configure ANT
- Configure project and Creating batch file
- Run tests and generate XSLT repot

✓ *MAVEN (Run Junit and TestNG test cases, generate sure-fire report)*

- Download and Configure Maven
- Understand POM.xml
- Concept of Local and Central repository
- Understand dependencies
- Configure project and creating batch files
- Run tests and generate Surefire repot

➢Cucumber Framework

✓ About BDD (Behavior Driven Framework)
✓ How Cucumber implements BDD

✓ Feature File, Gherkin Syntax

✓ Hooks, Data Tables

✓ Test Execution and Report Generation

➢ Page Object and Page Factory

- ✓ Concept of Page Object and One to One mapping
- ✓ Implement Page Object
- ✓ @FindBy, @FIndAll
- ✓ Implement Page Factory
- ✓ Initialize Elements

➢ Git and GitHub / Jenkins

- ✓ GIT and GitHub Essentials
- ✓ Installing GIT, GIT Bash and GIT GUI
- ✓ Creating Repository on Github
- ✓ Push code in Github Repository
- ✓ Configure project with Jenkins
- ✓ Test Execution

➢ DB Connectivity (MySQL)

➢ Selenium Grid (Cross platform testing)

- ✓ Need of Selenium Grid
- ✓ Concept of HUB and NODES
- ✓ Hub and Node Configuration with JSON
- ✓ RemoteWebDriver Class
- ✓ Test Execution on Different Node (Machine)
- ✓ Test Execution on Cloud (SauceLabs, BrowserStack, CrossBrowser)

Course Details

Course Duration	3 Months
Fees	11000/-
Study Material	https://tutorial.techaltum.com/SeleniumTutorial.html
Placement	yes, http://www.techaltum.org/

Trainer Profile (Mr. Amit Tyagi)

Mr Amit Tyagi

(Sr Software Tester on Selenium Automation)

Total 9+ Years' Experience in **Software Testing** Automation Field.

Having 8+ Experience in **Selenium automation** and **Mobile Application Testing**.

Also Involved in **Corporate Training** from last 6 Years.