# Selenium Automation Tester Job Responsibilities

Selenium Job Responsibilities may vary from one company to another and one project to another, but I am covering this topic by considering several companies approaches or in general orientation.

***We use Several Software/Tools in Automated Testing with Selenium, Example,***

- ➢ Selenium WebDriver for Creating Basic Test Cases
- ➢ Java or Other supported Programming for Enhancing Test Cases
- ➢ TestNG or other Supported Testing Framework for Grouping Test Cases, Prioritizing Test Cases, Executing Test Batches and Generating Test Results.
- ➢ Selenium Grid for Parallel Test execution.
- ➢ Maven Integration for creating and maintaining Selenium Test Environment.
- ➢ Jenkins for Continuous Integration,

## Selenium Knowledge for Fresher or below 1 Year Experienced

- ➢ Good Knowledge on Web Environment, Web Elements and Operations on the Web Elements.
- ➢ Basic Understanding of Functional and Regression Test Automation.
- ➢ Good knowledge on Selenium suite of Tools (Selenium IDE, Selenium RC, Selenium WebDriver and Selenium Grid).
- ➢ Knowledge of Java Programming (Data Types, Variables, Operators, Flow Control Statements, Methods (Built-in as well as User defined), Exception handling, File Handling, Excel file Operations, Database Operations and OOPS concepts).
- ➢ Good knowledge on Element Locators, Inspecting Elements and Selenium WebDriver API Commands or Methods.
- ➢ Idea on Test Automation Framework implementation
- ➢ Ability to create & execute Test cases using Element Locators and Selenium WebDriver API Commands.

# 1+ Years Experience in Test Automation using Selenium

➢ Understanding Test Requirements and analyzing the Application under Test(AUT).

➢ Generating Test Cases (Test Scripts) using Selenium Element locators and WebDriver API Commands.

➢ Enhancing Test cases using Java Programming.

➢ Debugging Test Cases and Fixing Errors.

➢ Executing/Running Test Cases

➢ Defect Reporting & Tracking

➢ Test Reporting

# 2+ years of Experience in Test Automation using Selenium

➢ Creating Test Automation Resources (Function Libraries etc...).

➢ Handling duplicate objects and dynamic objects using index property and Regular expressions.

➢ Collecting Test Data for Data Driven Testing.

➢ Creating Test Cases (Test Scripts) using Selenium Webdriver, Java and TestNG Annotations.

➢ Parameterization, Synchronization and define Test results.

➢ Debugging and Running Tests

➢ Analyzing Test Results

➢ Defect Reporting and Tracking using any Defect Management Tool.

➢ Test Reporting

➢ Modifying Tests and performing Re & Regression Testing.

# 3+ years of Experience in Test Automation using Selenium

➢ Understanding and Analyzing the Application Under Test in terms of Object Identification.

➢ Creating Test scenarios and Collecting Test Data.

➢ Identifying end to end scenarios and code modularity.

- Implementing JUnit or TestNG Test Automation framework and developing automation infrastructure.
- Creating reusable components.
- Creating and enhancing Test Cases (Test Scripts) using Element locators, WebDriver methods, Java programming concepts and TestNG Annotations.
- Error Handling, Adding comments.
- Creating Data driven Tests and Running through framework.
- Cross Browser Testing (Executing test cases against various browsers like Mozilla Firefox, Google chrome, IE and Safari etc...).
- Parallel Test Execution.
- Defining and exporting Test Results.
- Analyzing Test Results and Reporting Defects.
- Tracking Defects and Select Test cases for Re & Regression Testing.
- Modifying Test Automation Resources and Maintenance of Resources.

## 4+ years of Experience in Test Automation using Selenium

- Selecting or Identifying Areas/Test cases for Automation.
- Designing & Implementing Test Automation Strategy.
- Creating Automation Test Plan and getting approvals.
- Choose selenium tools and Configuring Selenium Test Environment (Ex: Eclipse IDE, Java, Selenium WebDriver and TestNG etc...).
- Involvement in Selenium Environment Setup...
- Automation Framework Design and Implementation.
- Creating, Organizing, and managing Test Automation Resources.
- Creating, Enhancing, debugging and Running Test Cases.
- Organizing, monitoring defect management process.
- Handling changes and conducting Regression Testing.
- Finding solutions for Object Identification issues and error handling issues.

- Co-coordinating Test team members and Development team in order to resolve the issues.
- Interacting with client side people to solve issues and update status.

## Focus on:

- Understanding and Analyzing Test Requirements
- Automation Framework Design & Implementation
- Selenium Test Environment Setup (Maven Integration, Selenium WebDriver, Java, TestNG and Jenkins Integration…)
- Inspecting Elements, Create Test Cases using Element locators and Selenium WebDriver Commands.
- Enhance Test cases using Java Programming and JUnit / TestNG Annotations.
- Maintenance of Automation Resources.