**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 WebDriver, 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.