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.