



# SELENIUM AUTOMATION TESTING

# Selenium curriculum

## Section 1: INTRODUCTION TO SELENIUM

- i. Introduction
- ii. Install Java
- iii. Install Eclipse
- iv. What is Selenium
- v. Install/Configure Selenium
- vi. Selenium first program with Firefox
- vii. Selenium first program with Firefox Script
- viii. Selenium with Multiple Browsers
- ix. Selenium WebDriver Javadoc eclipse

## Section 2: SELENIUM IDENTIFY WEBELEMENTS

- I. 10. Install Firebug, Firepath
- II. 11. What are Xpaths
- III. 12. Find Xpath of WebElement Part 1- 1
- IV. 13. Find Xpath of WebElement Part 1- 2
- V. 14. Find Xpath of WebElement Part 2
- VI. 15. Find Element by Locator Part 1
- VII. 16. Find Element by Locator Part 2
- VIII. 17. Find Xpath of WebElement Part 3 -1
- IX. 18. Find Xpath of WebElement Part 3 -2
- X. 19. Find Xpath using CSS Locators Part 1
- XI. 20. Find Xpath using CSS Locators Part 2

## Section 3: SELENIUM AUTOMATION FEATURES

21. Navigation in Selenium
22. Navigation in Selenium Script
23. Selenium Close and Quit
24. Selenium Close and Quit Script
25. Selenium Dynamic Xpath
26. Selenium Dynamic Xpath Script
27. Handling Radio Buttons
28. Handling Radio Buttons Script
29. Handling Frames
30. Handling Frames Script
31. Dragging in Selenium
32. Dragging in Selenium Script
33. Drag and Drop in Selenium

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- 34. Drag and Drop in Selenium Script
- 35. Handling sliding WebElement
- 36. Handling sliding WebElement Script
- 37. Resizing WebElement
- 38. Resizing WebElement Script
- 39. Select Element from dropdown
- 40. Select Element from dropdown Script
- 41. Working with Checkboxes
- 42. Working with Checkboxes Script
- 43. Encode Decode Passwords

## Section 4: SELENIUM AUTOMATION FEATURES ADVANCED

- 44. Uploading File
- 45. Uploading File Script
- 46. What is Synchronization and types of Synchronizations Part 1
- 47. What is Synchronization and types of Synchronizations Part 2
- 48. Selenium WebDriver DatePicker Calendar Part 1
- 49. Selenium WebDriver DatePicker Calendar Part 2
- 50. Selenium WebDriver DatePicker Calendar Script
- 51. Selenium JavaScript
- 52. Selenium JavaScript Script
- 53. TestNG Advanced DataProviders Script 1

## Section 5: TestNG

- 54. What is TestNG | Install TestNg
- 55. Annotations in TestNG Part 1
- 56. Annotations in TestNG Part 2
- 57. Annotations in TestNG Script 1
- 58. Annotations in TestNG Script 2
- 59. Running Test in Batch
- 60. testng.xml code
- 61. Running Multiple Batch Files
- 62. TestNG Pass, Fail & Skip Tests
- 63. TestNG Prioritization & dependsOnMethods
- 64. TestNG Prioritization & dependsOnMethods Script
- 65. TestNG Parameterization
- 66. TestNG DataProviders
- 67. TestNG Advanced DataProviders

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- 68. TestNG Advanced DataProviders Script
- 69. TestNG Grouping
- 70. Generating XSLT Reports | Ant | Exe BAT File Part 1
- 71. Generating XSLT Reports | Ant | Exe BAT File Part 2
- 72. build.xml code
- 73. testng-results code
- 74. TestNG Listeners
- 75. TestNG Listener Script 1
- 76. TestNG Listener Script 2

## Section 6: MAVEN

- 77. Install Maven and its Dependencies Part 1
- 78. Install Maven and its Dependencies Part 2
- 79. Maven through command Prompt Part 1
- 80. Maven through command Prompt Part 2

## Section 7: DATABASE AND SELENIUM

- 81. What is Database testing
- 82. Database testing with Selenium Part 1
- 83. Database testing with Selenium Part 2
- 84. Database testing with Selenium Script

## Section 8: CONFIGURATION MANAGEMENT

- 85. Install Git Github
- 86. Git GitHub Eclipse
- 87. Git GitHub GitBash

## Section 9: JENKINS

- 88. Jenkins Introduction
- 89. Install Jenkins
- 90. Jenkins Freestyle Project
- 91. Jenkins Manage Configuration
- 92. Jenkins with Ant Project Part 1
- 93. Jenkins with Ant Project Part 2
- 94. Jenkins Integration with Maven Project
- 95. Jenkins with Git / GitHub Part 1
- 96. Jenkins with Git / GitHub Part 2

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## Section 10: AUTOMATION FRAMEWORK

- 97. Selenium WebDriver Test Framework
- 98. Handling Excel - Reading TestData Part 1
- 99. Handling Excel - Reading TestData Part 2
- 100. Handling Excel - Reading TestData Part 3
- 101. Handling Excel - Reading TestData Part 4
- 102. ExcelReader Script
- 103. Working with Properties File
- 104. Properties File Code
- 105. Concept of generating logs i.e. Log4j
- 106. Log4j Code

## Section 11: \*\*\*\*\*Interview Section\*\*\*\*\*

- 107. Basic Interview Questions Part 1

## Section 12: Sauce Labs

- 108. Sauce Labs Introduction
- 109. Sauce Labs Automate Browser Part 1
- 110. Sauce Labs Automate Browser Part 2
- 111. Sauce Labs Automate Browser Script

## Section 13: Selenium Grid

- 112. TestNG Parallel Execution Part 1
- 113. TestNG Parallel Execution Part 2
- 114. TestNG Parallel Execution Part 3
- 115. TestNG Parallel Execution Part 4
- 116. TestNG Parallel Execution Part 5
- 117. Registering Hub and Node Part 1
- 118. Registering Hub and Node Part 2
- 119. Hub and Node by JSON
- 120. Grid End to End Design Part 1
- 121. Grid End to End Design Part 2

## Section 14: Java Basics

- 122. Install Java / Eclipse
- 123. Java First Program
- 124. Java DataTypes
- 125. While & Do-While Loop

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- 126. For Loop
- 127. Else If Statement
- 128. Array Part 1
- 129. Array Part 2
- 130. Class and Objects Part 1
- 131. Class and Objects Part 2
- 132. Constructors
- 133. For\_Each Loop
- 134. ArrayList
- 135. HashMap
- 136. Interfaces

## Section 15: Bonus Lecture – SQL Commands

- 137. Create Table
- 138. Insert into table
- 139. Delete Table
- 140. Add Column
- 141. Delete Column
- 142. Modifying datatype of Column
- 143. Update record
- 144. Delete record
- 145. Select
- 146. Select distinct
- 147. Where
- 148. Where OR
- 149. Where AND
- 150. Where Not
- 151. Order by
- 152. Top/RowNum

## Section 16: project