

JAVA-SELENIUM AUTOMAITON

Start and build your career as an Automation Test Engineer with Java-Selenium automation, API and Database Testing

We are working professional with more than 15 years of experience in the application development and quality engineering. We are here to make you as an experienced quality engineer with our unique and peculiar systematic training process.

Course content

Manual Testing		
Sno	Title	Details
1	Introduction	Understanding and importance of testing Blackbox functional testing role in SDET
2	Type of testing	Type of functional and non-functional testing
3	Functional testing types	various stages/types of functionals testing Importance and necessity of environments validation Understanding of Smoke, Sanity and regression testing Bug life cycle
4	Functional testcase preparation	Understanding of user requirements/user stories Analyzing user stories Writing functional testcases Understanding of Testcase Metrix
5	understanding of Agile methodology	Understanding of Agile methodology importance and advantages Understanding sprint ceremonies like Sprint planning, Sprint retrospective meeting and backlog refinement meeting
6	Walk through on Jira tool	walk through on jira project management tool Bug creation Sprint board and workflow overview Testcase creation and maintenance

7	Work implementation	User story analysis Identifying testcases Preparing testcase Metrix Testcase executions Collecting evidences Bug reporting
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Core Java		
Sno	Title	Details
1	Introduction	Introduction to java Available versions Journey
2	JDK, JRE and JVM	Introduction and importance to JDK, JRE and JVM
3	Hello World	Sample java program using note pad
4	keywords	introduction to all available keywords in java
5	datatypes	discussion on datatypes type of datatypes (primitive and non-primitive)
6	variables	
7	Arithmetic operators	+, -, *, /, %
8	Relational Operators	==, <=, >=, !=
9	Conditions	if if - else if - else if nested if
10	loops	for, foreach, while, do - while
11	arrays	introduction to arrays single dimensional multi dimensional
12	switch	
13	class	Introduction to class and class member data
14	methods	Method declarations and definitions
15	Inheritance	single level multi level multiple hybrid diamond problem
16	polymorphism	compile time polymorphism runtime polymorphism

17	Abstraction	abstract methods abstract classes
18	interfaces	introduction to interfaces implementation of multiple inheritance with interfaces
19	access modifiers	private public protected default
20	getter and setter	
21	using this	
22	static	static variable static block static methods
23	final	final variable final methods
24	Encapsulation	
25	collections	
26	generic collections	
27	exception handling	
28	using thread	
29	File I/O	R/W flat files R/W xml R/w excel sheet

Selenium		
Sno	Title	Details
1	Evolution of Selenium	
2	Components of Selenium Suite	Selenium IDE Selenium RC Selenium WebDriver Selenium GRID
3	Selenium Vs. other tools	
4	Selenium-WebDriver	
5	Selenium WebDriver Architecture	
6	Usage of gecko, IE, chrome browser drivers	
7	Navigating to Web Applications	Driver initialization launching application landing page Define Browser Profiling

8	Browser Driver Commands/ Methods/ Functions	Get Navigate Find element switch to manage close quit
9	Introduction to Web Elements	Introduction to Web Elements Operations on Web Elements Difference Between FindElement & FindElements
10	Inspecting elements in Mozilla, Chrome	Using firebug in Mozilla inspect in chrome
11	Locators / selectors	ID Name Class Tag Name Link Text Partial Link Text CSS Selector XPath
12	Elements methods	getText() setText() click() SelectByVisibleText() SelectByIndex() SelectByValue()
13	What is XPath?	Introduction to xpaths Types of X-paths : absolute and relative
14	Handling complex & Dynamic Web-elements in Selenium using XPath Functions	Contains () Start-with () Preceding Axes and Preceding Sibling Axes Ancestors childs
15	Waits in selenium	Types of Waits : Explicit Wait Fluent wait Implicit Wait PageLoadTimeout setScriptTimeout
16	Actions	
17	JavaScriptExecutors	
18	Alerts in WebDriver: Simple Alert, Confirmation Alert, Prompt Alert	

19	Handling Modal Dialog boxes	
20	Methods in Window handling	GetWindowHandleCommand GetWindowHandlesCommand SwitchToWindowCommand
21	Selenium Grid	The need of Selenium Grid What is Selenium Grid? Architecture and RemoteWebDriver WorkFlow: Hub, Node Grid 1 vs Grid 2 Setting-up Selenium Grid
22	Page Object Model	
23	TestNG unit test framework	Advantages of TestNG Installing TestNG on Eclipse Rules to write TestNG TestNG Features Annotations Grouping Sequencing: Prioritization and Dependency Enable/Disable a test case Parameterization: Using Xml file and Data Provider Parallel Testing & Cross Browser Testing TestNG Report: Extent Report
24	Automation project architecture	Development of new project from scratch using Maven, TestNG and Page Object Model Creating Base classes for Pages and Tests Adding common classes for test data, Environment data and reporting Adding page and test classes by implementing Inheritance Script executions through suite files
25	Working with Github	Introduction to Github source code management tool Understanding branching strategy Walk through on the code review check list Understanding of source code clone, commit, pull, push, pull request creation and resolving code conflict during code merge
26	Automation of functional testcases	using firebug in Mozilla inspect in chrome
27	BDD Framework and Cucumber	Introduction to Cucumber Working with feature files and step definition files Understanding of Gherkin language Understanding of testvdata as example and scenario steps Understanding Test runner and hooks

API		
Sno	Title	Details
1	Introduction of Soap UI and REST API	Understanding Soap UI and REST Api Diff. between Soap UI and REST API
2	Understanding REST API Testing	Writing testcases for REST API Preparing data driven sheet for API testcases
3	Working with POSTMAN tool	Introduction to POSTMAN Execution of API Testcases in Postman Creating Environments Passing one api response to another api request Creating collections
4	API Automation	Introduction to Rest Assured Scenario automation for GET/PUT/POST/DELETE operation
5	API with BDD Framework	BDD framework for API Automation Implementation of Data driven framework

MS SQL Server		
Sno	Title	Details
30	Introduction to database	DDL DML Conditions Clauses Joins Subqueries
31	Advanced SQL	Joins, Subqueries
32	JDBC	connecting to database executing commands on database getting data from database

Process and Framework		
Sno	Title	Details
1	Maven Build Tool	Development of automation with Maven build Understanding maven life cycles Importance of POM.xml Maven commands
2	TestNG Unit Test Framework	Introduction of Unit Test Framework Understanding of TestNG annotations @Test properties and Attributes Working with TestNg suites
3	Extent Report Service	Implementation of Extent reports Generating extent reports
4	Project Management with JIRA and Agile methodology	Understanding Agile Methodology Sprint ceremonies Sprint planning with Jira board Creating and tracking defect in Jira
5	Github	Introduction to source code repository Branching strategy with Github Code merging process in Github
6	Jenkins for Continues Integration	New Job creation Job Configuration for daily executions Run job and results analysis

Wish You All The Success