

Selenium with Java Pre-requisites

Topic Name	Topic Objective
Eclipse Set Up	Set up eclipse workspace, project ==> Run hello world successfully
Eclipse features	Preference settings, build config, debugger usage
Java Coding Standards	Walk thru of best practices including naming conventions and casings, javadoc
Anatomy of Java Programs	Declare a basic class, defined members and methods
Primitives and Types	Primitive data types, User Types, enums, dates, commonly used standard lib types
Operators and Statements	Conditionals and Loops - if, ternary, switch, for, forEach, while, do-while, System.out, System.in
Exception Handling	try/catch blocks and catching multiple exceptions
String Handling	String, String Builder, Strung Buffer String manipulations, useful functions on that, regular expressions
Arrays	Use of one and two dimensional arrays.
Access Modifiers	public, private, protected, default
Oops implementations - I	Classes, sub-classes, objects, constructors, method overload, method override Use of this, super
Oops implementations - II	Use and implemtation of abstract class, interfaces
Collection	ArrayList, HashMap, Set - define, load, iterate
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Selenium - Fundamentals	Web Driver Interface, Browser implementations, Standalone Server, Language Bindings
Locator Strategies	Out of the box mechanism available for object identification ==> WebElement(s)
Basic Actions	Actions to act on web elements covering all commonly used ones
Advanced Actions	Composite actions using Actions Builder class
Browser Configuration	Using DesiredCapabilities to manage browser settings, preferences
JavascriptExecutor	use script to handle actions, incompatibilities between browsers
Application Synchronization	Implicit, Explicit and Fluent Waits
Handling Alerts	Handling windows, popups, alerts
TestNG - testng.xml	Walk thru of major components of testng.xml such as Test Groups, dependencies,
TestNG Annotations - I	@BeforeSuite, @BeforeGroups, @AfterSuite, @AfterGroups
TestNG Annotations - I	@Parameters, @DataProvider, @Ignore
TestNG @Test	enabled, expectedExceptions, timeout, groups, dependsOnMethods
BDD Cucumber	Getting started with Selenium Cucumber
BDD Cucumber	Gherkin keywords, Junit Runnner, Hooks ,Cucumber Options
BDD Cucumber	Data Parameterization
Case Study:Evaluation	
Pom And Automation Framework	WebApplication: case study