

Java

- JVM, JRE and JDK
- How Java works
- Language Fundamentals
 - Data Types
 - Variables
 - Methods
 - Class and Objects
 - Constructor
 - Array
- Operators and Assignment
- Flow and Design Control
 - Conditional – if else, switch
 - Iterative – while, do while, for , for each
 - Transfer statements – break, continue, return
- Modifier and Declarations
 - Access Modifiers – public, default, protected, private
 - Package and import
 - Final and abstract
 - Static
 - Understanding of main() method
 - interface
- OOPS concepts
 - Polymorphism
 - Inheritance
 - Encapsulation
 - Abstraction
 - Associations - Aggregation and Composition
- Collections
 - List
 - Array List
 - Linked List
 - Set
 - Hash Set

- Linked Hash Set
 - Tree Set
 - Map
 - Hash Map
 - Linked Hash Map
 - Tree Map
 - Iterator
 - Exception handling
 - Error vs Exception
 - Checked and Unchecked Exceptions
 - Try
 - Catch
 - Finally
 - Miscellaneous
 - Reading text files
 - Reading property files
 - Read/Write excel sheet
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TestNG

- TestNG Annotations
 - @BeforeSuite
 - @AfterSuite
 - @BeforeClass
 - @AfterClass
 - @BeforeTest
 - @AfterTest
 - @BeforeMethod
 - @AfterMethod
 - Groups
 - @Test
 - @Parameters
 - @DataProvider
 - @Factory
 - Ignore Test

- Exception with TestNG
 - Dependency with TestNG
 - Assertions
 - Reports – TestNG and Extent Reports
 - First test with annotations & assertions
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Selenium Webdriver

- WebDriver installation
- Launching different browsers
 - Chrome
 - Firefox
- Identifying the web elements
 - Id
 - Name
 - CSS selector
 - XPATH
 - Link text
 - Partial link text
 - Tag name
 - Class name
- Learning driver API
 - get
 - get Current URL
 - get Page Source
 - get Title
 - find Element
 - find Elements
 - navigate
 - manage
- Learning Web Element API
 - clear
 - click
 - send Keys
 - get Text

- get Attribute
 - get Location
 - get Size
 - get CSS Value
 - is Displayed
 - is Enabled
- Wait commands
 - Implicit
 - Page Load Timeout
 - Set Script Timeout
 - Explicit
 - Fluent
- Actions API
 - Right click
 - Double click
 - Mouse hover
 - Drag and drop
- Java Script Executor
- Handling select boxes
 - select by index
 - select by value
 - select by visible text
 - deselect by index
 - deselect by value
 - deselect by visible text
 - Is multiple
 - get options
 - get all selected options
 - get first selected option
- Handling Alerts
 - Accept
 - Dismiss
 - Send keys
 - Get text
- Handling Iframes
- Handling popup windows

- Page Object Model(POM) and Page Factory
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Frameworks

- Modular
 - Keyword
 - Data Driven
 - Hybrid
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Maven overview

- How to create a Maven project
 - Life cycle of a Maven Project
 - Integration of TestNG and Maven
 - Advantages of Maven
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Mini Real Time Project