Future Automation

JAVA SELENIUM
WITH CUCUMBER 5
SYLLABUS

DURATION – 3.5 MONTHS
MODE OF TRAINING – ONLINE (WebEx Meeting)
Time – Sat, Sun 10am – 12pm IST

For More Info Call : +91 – 7588024096

Core Java –

- Introduction to Java
- Installation of Java in windows
- Data Types and Operators
- String, String Buffer, String Builder with Interview Questions
- First Java Program
- Introduction to Class, Object
- Control Statements (for, for-each, enhanced-for, do-while etc.)
- Array (Single Dimension ,Multi-Dimension), Array Interview Questions
- Introduction to blocks and methods
- Object Oriented Programming Concepts
- Abstraction
- Encapsulation
- Polymorphism
- Data Hiding
- Inheritance

- Introduction to Constructor and Types of Constructor
- Exception Handling
1. Checked vs. Unchecked Exception
2. Handling Exception using try catch keyword
3. Finally block
4. throw keyword
5. throws Keyword
6. Custom Exceptions
- Collection Framework
- Introduction to Collection
- Collection hierarchy
- Methods of Collection
- Methods of List Interface
- Methods of Set Interface
- Method of Queue Interface
- Introduction to ArrayList, Linked List, Vector, Stack their Methods.
- Introduction to HashSet , LinkedHashSet, Tree Set
- Introduction to Priority Queue
- Introduction to Map Interface and it's methods

- Introduction to HashMap,LinkedHashMap, Tree Map
- Iterator in Collection
- Comparable and Comparator

Selenium –

- Introduction to Selenium
- Components of Selenium – IDE, RC , Grid ,WebDriver
- Introduction to Selenium WebDriver component
- WebDriver Interface and it's methods
- Introduction about WebDriver Interface
- How to Launch different browsers using Selenium
- Launching URL
- Introduction to Browser supported drivers
- Introduction to WebElements
- Introduction different locator used to locate WebElements
- Introduction to XPATH
- Absolute vs. Relative XPATH
- Writing Dynamic XPATH
- XPATH Functions

- XPATH Axes
- Introduction to CSS Selector
- Functions of CSS Selector
- Different symbols of CSS Selector
- Handling Radio buttons , links and buttons
- Handling dropdowns using Select class
- Handling windows and frames
- Handling alert and pop ups
- Brief Introduction to Waits in Selenium
- Handling mouse and keyboard events using Robot class
- Exception of Selenium
- Taking Screenshot using Selenium
- File Upload and download using AutoIt

TestNG –

- Introduction to TestNG
- Different annotation in TestNG
- Introduction to testing.xml
- Introduction to Annotation Sequence in TestNG
- Different Parameters of @Test annotation
- Writing first pass test case
- Writing fail test case
- Assertion (Soft Assert and Hard Assert)
- Groups in TestNG
- DataProvider in TestNG
- Parameterization in Testing
- Providing data from Excel , csv and properties file
- Cross browser testing
- Taking screenshot using Test Listeners when test fails
- Different Listeners in TestNG

- Extent Report
- Git, Maven
- Page Object Model Framework
- Cucumber BDD Framework
- Page Object Model
  a. Creating Page Classes
  b. @FindBy
  c. @CacheLookUp
  d. PageFactory class
  e. Introduction to pgen tool

Cucumber –

- Introduction to Cucumber
- Introduction to BDD
- Installation of Cucumber
- Gherkin Keywords
- Brief Introduction to Step Definitions
- Writing Generic Step Definitions
- Cucumber Exception
- Parameter types
- Custom Parameters types
- Optional text
- Alternative text
- Checking Assertions
- Data tables
- Hooks
- Tags
- Cucumber Reporting