Testing Shastra

REST API

SYLLABUS

WITH CORE JAVA

Duration: 800Hrs
Mode of Training: Online (Webx Meeting)
Time: Sat, Sun 3pm to 5pm IST

For more info., Call on:

+91-9130502135

Core Java:

- Introduction to Java
- Installation of Java in windows and Mac
- Data Types and Operators
- Writing first Java program
- Introduction to class
- Control Statements (For, while, do-while, for-each etc.)
- Array (Single Dimension, Multi-Dimension). Array Interview questions.
- Introduction to blocks and methods.
- Object Oriented Programming Concepts
  - Encapsulation
  - Data Hiding
  - Abstraction
  - Polymorphism
  - Inheritance
  - Constructor
  - Singleton Pattern
- Exception Handling
  - Checked vs Unchecked Exception
  - Handling Exception using try-catch
  - throws keyword
  - throw keyword
  - finally block
  - Custom Exceptions
- Collection Framework:
  - Introduction
  - Different Interfaces of Collection
  - Methods of Collection
  - Methods of List Interface
  - Methods of Set interface
  - Methods of Queue Interface
  - Intro to ArrayList, LinkedList, Vector, Stack, their methods and constructors
    Intro to HashSet, LinkedHashSet, TreeSet
  - Intro to PriorityQueue, BlockingQueue
  - Intro to Map interface and its methods
  - Intro. to HashMap, LinkedHashMap and TreeMap
  - Iterators in Collection
  - Comparable and Comparator

REST API:

- Introduction to Web Services
- Introduction to Postman
- Installing Postman
- What is Header
- What is Body
- What is Pre-request Script
- Tests in Postman
- Response Codes: 200,201,204,400,401,403,404,405,500,503
- Introduction to Rest Assured
- Rest Assured methods: GET/POST/PUT/Delete
- Handle different payloads using POJO and JSON/XMLs
- Handle Authentication using Basic Auth, Preemptive Auth, Digest Auth, Bearer Token, Authorization Token, Client ID, Client Secret, API Key, API Secret, OAuth1 and OAuth2
- All core features of Rest Assured Library:
- GET/POST/PUT/DELETE - BDD Approaches
  - What is GIVEN/WHEN/THEN/AND methods
  - What is LOG and ALL methods
  - How to ASSERT in Rest Assured
  - How to verify Status Code, Response Body and Headers
  - How to use QUERY PARAMETERS and PATH PARAMETERS
  - What is ResponseBuilderSpec and RequestSpecification Concept
  - What is JSONPATH
  - How to send a POST CALL with JSON String, JSON File and using Java (POJO) Class.
  - What is Serialization and De-Serialization
  - How to use HAMCREST - Assertion Library
- GET/POST/PUT/DELETE - NON-BDD Approaches
- Reporting : Extent Report/TestNG Report/Allure Report
- Framework designing using Core Java and REST Assured