Quality Thought ®

Web Services

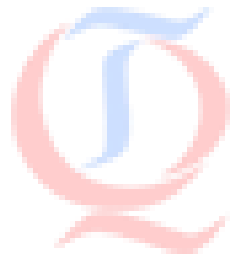**Mode of Training:** Online, Classroom, Corporate

Faculty: Mr. NANI

Course Duration: 40 Days

Course Curriculum

SOAP UI, SOA Testing, API Testing, Cloud Services Testing

- The Economics of Testing

- Software Testing Principles

- Test Case Design

- Module Testing

- Higher-Order Testing

- Debugging

- Extreme Testing

- Basic Scripting/Programming Skills

- XML & JSON

- Web Services Introduction

  a. SOA & Web Services

  b. SOAP

  c. Alternatives to SOAP

  d. Message Exchanging Patterns

- SOAP Faults

- Approaches of testing Web Services

a. Unit Testing

b. Functional Testing

c. Integration Testing

d. Performance Testing

e. Common Challenges of Web Services testing

- What is Soap UI

    a. Capabilities of SoapUI

    b. Installation of Soap UI

- Understanding WSDL

    a. Schema

    b. portType

    c. Binding

    d. Service

- Creation of soap ui project

    a. Invoking Web Service

    b. A detailed look at SOAP requests & responses

    c. Generating Soap Faults

- First Test Suite

    a. Creating the Test Suite

    b. Adding Test Cases

    c. Running the first Test Suite

    d. Adding Test Assertions

    e. Adding properties to Soap UI Tests

- Web Service Simulation with Soap UI

    a. Mocking in software testing

    b. Mocking in Web Service Testing

    c. Mocking services with Soap UI

    d. Structure of Soap UI Mock Service

    e. Soap UI Mock Services in Action

- Advanced Functional Testing with Soap UI

    a. Introduction to web services extensions

    b. WS-Addressing

     c. Ws-Security

     d. Testing asymmetric binding policy with soapUI

- API Testing

     a. Introduction to Rest

     b. Testing Rest Full API with Postman

     c. Testing Rest Full API with Rest Client

     d. Testing Rest Full API with Advance Client

     e. Testing Rest Full API with Fiddler

     f. HTTP Statics Codes

     g. HTTP Statics Methods

     h. URI, JSON

     i. JSON Path Evation

- Getting Started with REST Testing

     a. Introduction to REST

     b. Testing RESTful APIs with soapUI

     c. REST Services in soapUI

     d. Inserting HTTP Basic Authentication headers to requests

e. REST Parameters

- Query Parameters

- Template parameters

- Matrix Parameters

- Header Parameters

f. Functional Testing of REST Services

g. WADL

- Database Testing With Soap UI

  - Testing data in isolation

  - Setting up Soap UI to connect to database

  - JDBC Request TestStep

  - JDBC Test assertions

- Extending SoapUI with Scripting

  - Introduction to Groovy Scripting Language

  - What is Groovy?

  - Hello World With Groovy

  - Control structures In Groovy

- Class & Method declarations in Groovy

- Groovy Scripting in Soap UI

- Soap UI Model Items

- Request & Response handling with Scripts

- Automated Testing with SoapUI

    - Test Automation

    - soapUI Junit Integration

    - soapUI Command line executions

- Data Driven Testing & Using External Data sources

- Security Web service Testing

    - Testing basic HTTP-authenticated RESTFUL web services

    - Testing HTTP Digest-authenticated RESTFUL web services

    - Testing HTTP Form-authenticated RESTFUL Web services

    - Testing client certificate authenticated web services

    - Testing WS-Security
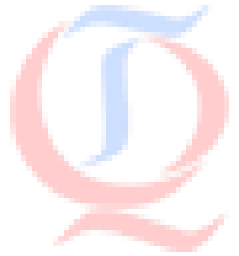
    - Scanning Web service vulnerabilities

Automated Database Testing:

- What is Database?

- Basics of Database

- SQL Introduction

- Advanced SQL

- Database Testing using SOAP UI

- Database Testing using nunit/mstest

- Introduction to advanced database testing

Additional Benefits:

- Core Java

- Oracle SQL

- Agile Methodology

- JIRA Tool

- Interview KIT

- Resume Preparation

- Mock Interviews

- Hands on Training

Supporting Enterprises around the Globe

Our Other Courses

DevOps & Cloud Computing

- AWS Admin Training
- Devops Training
- Azure Admin Training

Artificial Intelligence & IOT

- Artificial Intelligence Training
- IOT Training

Big data

- Hadoop Development Training
- Spark And Scala Training

Data Science & Blockchain

- Data Science Training
- Blockchain Training

QA and Testing

- Manual Testing
- Big data Testing Training
- Selenium Training
- Appium Training
- Web services Testing Training
- Security Testing Training
- Performance Testing Training
- TOSCA Training
- ETL Testing Training

RPA and Automation

- Automation Anywhere Training
- Blueprism Training
- Uipath Training

Programming & Framework

- Core Python
- Advanced Python Training
- Django Training
- C,C++Programming Training

Others courses

- Digital Marketing Training
- Spoken English Training
- Chat Bot Making Training
- BI Reporting Tools Training
- Sail point IIQ

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