

# Soap UI training



SoapUI is an open-source web service testing application for service-oriented architectures (SOA) and representational state transfers (REST). Its functionality covers web service inspection, invoking, development, simulation and mocking, functional testing, load, and compliance testing.

## Course Objective:

- Basic knowledge necessary for testing and automating web services.
- Installing and configuring SoapUI, creating workspaces and navigating through the application.
- SOAP protocol and how to create a project, a test suite inside the project, and a test case inside the test suite.
- Finally focusing on assertions and transferring properties.

## Course Audience:

Beginners to help them understand how to use the SoapUI tool.

## Course Prerequisites:

Basic understanding of the client/server environment, and knowledge of SOAP, WSDL, XML, and XML namespace.

## **Installation of SoapUI:**

- Installing SoapUI
- Setup of SoapUI
- Installation of SoapUI pro
- Setup of SoapUI pro

## **Get to Know about web services:**

- Web Service Architecture
- Web Services Concepts
- Types of web services
- SOAP
- WSDL
- UDDI
- What is a Service-oriented Architecture?
- Why SOA?
- SOA Testing Methodology
- SOA test challenges

## **Working with SoapUI tool:**

- Creating Workspace
- Adding projects to Workspace
- Creating Project/Importing Project
- Creating Requests for project operations
- Creating Test Suites
- Creating Test Cases
- Creating Test Steps
- Wsdl project

## **SOAP & WSDL:**

- Soap Usage
- Soap message structure
- Soap detailed explanation
- Soap encoding rules
- SOA examples
- WSDL usage
- WSDL doc structure

- WSDL examples
- Request, Response

### **Data driven testing:**

- DataSource
- DataSourceLoop
- DataSink
- Assertions
- Assertions, Xpath & Loops
- Conditional Goto
- Assertions in SoapUI
- Assertion – Contains & Not contains
- Xpath match
- SOAP/Not-SOAP
- Contains/Not Contains
- SOAP fault/Not-SOAP fault
- Response SLA
- XPath match
- JDBC Timeout / JDBC Status

### **Transferring properties:**

- Passing values between Test Steps
- Passing values between Operations
- Passing values between Services
- TestRequests
- Properties
- Property transfer
- Response to Request transfer
- Global to Test case