

API [WEB SERVICES] COURSE CONTENT

Tools Introduction

- Introduction to SoapUI
- Installation & Set up
- Introduction to PostMan
- Installation & Set up

Web Service Basics

- Introduction to Web services
- Introduction to XML & JSON
- Introduction to WSDL
- Introduction to SOAP

Sample SOAP Services for practice purpose

- How to run the services on your local machine
- Sample SOAP Services

SoapUI Basics

- Create project in SoapUI and send a sample request to web service
- Create TestSuite and TestCase
- Cloning TestSuite and TestCases
- Exporting and Importing project into workspace
- Running mock service- might come handy when your actual service is down!!

Assertions

- Introduction to XPath Expressions
- Writing our first assertion
- Working with advanced assertions
- Assertions - Compliance, Status & Standards
- XQuery Assertion
- Handling CDATA - using XPath and Groovy

Working with Properties

- Creating properties at Project , TestSuite & TestCase Level
- Property Expansion
- Transferring Properties

Working with REST APIs

- Introduction to REST API
- Understanding how REST API architecture works
- What is Base URL, Resources in REST API?
- Understanding GET, POST, PUT, DELETE requests
- What are headers and cookies in rest request?
- REST - Authentication using Header tokens, OAuth2.0 and Basic Authorization

Getting started with REST API Testing

- Introduction to POSTMAN -Manual testing client for REST API
- Validating responses with POSTMAN client
- Validating the body of first Json response

- Examples on validating response headers and status codes
- **Sample API - Real Time Implementation**
- Google Maps with google API
- Jira API
- Twitter API