



# Web Services

**Mode of Training:** Online Training

**Faculty:** Mr. NANI

**Course Duration:** 40Days

A woman with dark, curly hair and glasses, wearing a pink top, stands with her arms crossed in front of a large window with a grid pattern. The background is slightly blurred, showing the window's structure and some light coming through.

**Course  
Curriculum**

Web Services Testing course plan	
Testing	
Day 1	Web Services Testing Introduction
	Different Types of Testing
	Difference between SOAP and REST
	More Examples on Web Services
Day 2	Introduction to API Testing
	URL vs URI vs API
	HTTP Introduction
	HTTP Methods : POST , PUT , GET, DELETE, PATCH
	HTTP Status Codes: 1** - Informational 2** - Success 3** - Bi-direction 4** - Client Side Error 5** - Server side Error
Day 3	POSTMAN tool Introduction
	Practice different APIs in POSTMAN Tool
	Create APIs for Practice purpose
Day 4	Collections in POSTMAN
	Save Collections in POSTMAN
	Collection Folder Structure
	Collection Variables vs Global Variables
	Share Collections/Import Collections
	Run Collections
	Import /Export Collections
Day 5	Data Driven Testing in POSTMAN
	Data Driven using JSON
	Data Driven using CSV
Day 6	Explore URI
	Explore Headers
	Headers Types
	Parameters

	Different Types of Parameters Path Parameter Query Parameter Header parameter Body Parameter
Day 7	Explore SNIPPETS in POSTMAN
	Introduction to JSON Path
	Understanding to JSON path in various Tools
	Practice different SNIPPETS
	Explore TESTs Tab
Day 8	Environment Setup in POSTMAN tool
	Endpoint Parameterization
	APIs chaining / Properly Transfer in POSTMAN
	Why REST is Architecture
	Run Console Reports
	Run HTML Reports
Day 9	Different Authorizations in POSTMAN Interview Questions & Answers discussion
Day 10	API Testing Project Explanation API Testing Resume Preparation

### SOAP Testing

Day 1	Introduction to SOAP Protocol
	Explain about SOAP Testing
	More Examples
	Explain why SOAP Protocol?
Day 2	Introduction to SOAP UI tool
	Different Types SOAPUI Tool SOAPUI Open Source SOAP UI Pro tool (Ready API)
Day 3	Explain WSDL Explain about SOAP+XML HTTP importance in Web services Testing
Day 4	WSDLs execution in SOAPUI tool Practise different WSDLs testing in SOAPUI Tool

Day 5	<p>Explain Assertion in SOAPUI Tool</p> <p>Different Types of Assertions</p> <p>X path vs X Query</p> <p>Absolute Xpath vs Relative Xpath</p>
Day 6	<p>Properties in SOAPUI tool</p> <p>Explain custom Properties in SOAPUI tool</p> <ul style="list-style-type: none"> <li>-Global Properties</li> <li>-Project Properties</li> <li>-Test Suite Properties</li> <li>-Test Case Properties</li> <li>-Test Step Properties</li> </ul>
Day 7	<p>Property Transfer in SOAPUI tool</p> <p>Property Transfer - Direct Test Step</p> <p>Property Transfer - custom properties</p>
Day 8	<p>Introduction to Ready API tool</p> <p>Explain Differences between SOAPUI Free vs Pro</p> <p>Introduction to Data Driven Testing</p> <p>Explore about Data Source vs Data Source Loop</p> <p>Process of Data Driven Testing</p>
Day 9	<p>Introduction to Data Sink</p> <p>Practice on Data Sink</p> <p>Data Sink - Text File</p> <p>Data Sink - Excel File</p> <p>Data Driven with Data Sink</p>
Day 10	<p>Explain Conditional Go to step</p> <p>Explain Delay Test step</p> <p>Explain Manual Test step</p> <p>Explore Assertion Test step</p>
Day 11	<p>JDBC in SOAP UI tool</p> <p>Explain Driver Name and Connection String</p> <p>JDBC Assertions</p>
Day 12	<p>DataGen step in Ready API tool</p> <p>Reports in Ready API tool</p> <p>Console Reports concepts</p> <p>Reports in Free tool Launch Test Runner</p>

Day 13	Mock Services in SOAPUI tool
	Endpoint Parameterization
	Environment setup in Free tool and PRO tool
Day 14	Web Services Project explanation
	Interview Questions and Answers discussion
	Resume preparation
	Naukri Launching and Keyword setup
Day 15	Explain different Securities
	Basic Introduction to Performance Testing
Day 16	Introduction to API/REST Testing in SOAPUI tool
	Testing APIs in SOAPUI tool
	SOAPUI- JSON Assertions
	JSON Path Match
	JsonPathCount
	JsonRegEx
	Json Existence Match
	SOAPUI - JSON - Properties
	SOAPUI - JSON - Property Transfer
	SOAPUI - JSON - DataDriven Testing

### GROOVY Scripting

Day 1	Introduction to GROOVY
	What and Why Groovy in SOAP UI tool
	Advantages of GROOVY
	How Many ways can use Groovy in SOAPUI
Day 2	Introduction to Groovy as Test step in SOAPUI
	GROOVY Basics
	Basic Groovy scripts
	Introduction to Groovy Classes
	Handling Groovy with Java Libraries
Day 3	Groovy - Properties
	Groovy - Property Transfer
	Groovy - DataDriven Testing
	Groovy - JDBC
	GROOVY - DataSink

Day 4	Handling Json with Groovy
	Groovy - Read JSON script
	Groovy - Handling Json data

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