

API Testing: Postman, REST Assured & SOAP UI

Learn to test APIs using Postman, REST Assured and SOAP UI, from client-server basics to authentication and assertions.

4

MODULES

31

TOPICS

COURSE OVERVIEW

This course covers the foundations of API testing, including client-server architecture, HTTP structure, XML and JSON, HTTP methods and status codes. It then covers the Postman tool, including creating requests and collections, working with variables and environments, authorization and test scripts. It proceeds to REST Assured, covering configuration with Eclipse, validating response status and headers, reading JSON response bodies, POST, PUT and PATCH requests, and authentication. It closes with SOAP UI, covering SOAP web services, project and test case creation, and assertions.

WHO THIS COURSE IS FOR

API Testers

QA Engineers

Test Automation Engineers

Software Testers

SDETs

PREREQUISITES

- Basic Knowledge of API

LEARNING OBJECTIVES

- Explain client-server architecture and API testing concepts
- Identify HTTP methods, status codes and message structure
- Create requests, collections and environments in Postman
- Apply authorization and test scripts in Postman
- Configure Eclipse with Rest Assured for API testing
- Validate response status, headers and JSON bodies with Rest Assured
- Implement POST, PUT and PATCH requests using Rest Assured
- Create SOAP UI projects, test suites and assertions

4 Modules, 31 Topics

01

API Testing Basic

TOPICS

- Client-Server Architecture
- Presentation, Business and Database layers
- What is an API?
- What is API Testing?
- Web services
- HTTP Structure
- xml and JSON
- URI and URL
- Tools for API Testing
- Approach of API Testing
- Challenges of API Testing
- What to test for in API testing
- HTTP methods
- Status codes

02

POSTMAN Tool

TOPICS

- Introduction to POSTMAN tool and installation
- Creating requests in Postman
- Creating collections in Postman
- Understanding variables and environments in Postman
- Authorization in POSTMAN
- Assertions/Test scripts in POSTMAN

03

REST ASSURED

TOPICS

- Configure Eclipse with Rest Assured
- REST API Test using Rest Assured
- Validate Response Status using Rest Assured
- Validate Response Header using Rest Assured
- Read JSON Response Body using Rest Assured
- POST, PUT and PATCH Request using Rest Assured
- Authentication and Authorization in REST Web Services

04

SOAP UI

TOPICS

Introduction to SOAP WEB SERVICES · SOAP UI /READY API BASICS and installation · Create a Project, Test Suite, and Test Case · Assertions

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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