

API Test with Postman, Rest Assured and SOAP UI

Prerequisites: Basic Knowledge of API

Module 1: API testing Basic

- 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

Module 2: POSTMAN Tool

- 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.

Module 3: REST ASSURED

- 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

Module 4: SOAP UI

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