

API Testing

Course Content -

API testing Basic

- **Client -Server Architecture**
- **Presentation, Business and Database Presentation, Business and Database layers**
- **What is an API?**
- **What is API Testing?**
- **Difference between API testing and Difference between API testing and Unit testing**
- **Web services ->an introduction**
- **HTTP Structure**
- **xml and JSON ->an overview**
- **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**
- **Example APIs**

REST

- **Introduction to REST Web services.**
- **Difference between SOAP and REST Web services.**

REST ASSURED

- **What is REST?**
- **Rest Architectural Elements**

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.**
- **Command line integration with**

REST ASSURED– Basics

- **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**

Rest Assured Advance

- **POST, PUT and PATCH Request using Rest Assured**
- **Authentication and Authorization in REST Web Services**
- **Sample automation framework design using REST ASSURED**

SOAP

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