

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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Api Testing Using Katalon Course Content

Course Introduction & Getting Started

- Introduction to web application architecture
- Introduction to APIs
- Introduction to Web-Services
- How does an API works
- What is API testing?
- Advantages of API
- API vs Web-Services
- Introduction to API architecture REST API, SOAP API and few more
- Understanding how REST API architecture works
- Understanding how SOAP API architecture works and learn the concepts like PATCH, OPTIONS, HEAD, Few more
- Understanding the HTTP methods like GET, POST, PUT, DELETE

API Testing

- What does API testing involve
- Validation techniques used in API testing
- API testing steps

- Understanding URI, end points, Resources, HTTP verbs
- Understanding GET request
- Understanding POST request
- Understanding PUT request
- Understanding DELETE request
- GUI tools available for API testing
- Command-line tools available for API testing
- Best Practices for API testing
- API Testing tools – Postman, Rest Assured, JMeter, SOAP UI

Download & Setup

- Software Pre-requisites
- Hardware & Software configuration
- How to setup Katalon Studio

Introduction to Katalon Studio API Testing Tool

- What is Katalon Studio tool
- Introduction to Katalon Studio landscape
- Introduction to Katalon Studio Settings

Explore GUI & Features of Katalon Studio

- Tour of Katalon Studio GUI
- Katalon Studio features
- Settings & Preferences

API Testing Using Katalon Studio

- Object Repository

- Test Cases, Test Suites, Test Suite collection
- Variables
- Pre-request Verifications
- Post-request Validations
- How to validate API responses
- Katalon Analytics
- Test Results & Reporting
- API Data-Driven Testing
- Command Line Execution
- How to use GIT
- How to use Jenkins CI
- How to use Katalon Jenkins Plugin
- Validate XML & JSON Response values
- Troubleshooting & Debugging

Case Study/Assignment

- Katalon Studio Tool hands-on assignments against a Web-Services, SOAP, REST real-time APIs