

QA

ADVANCED

4 DAYS

API Automation Testing with Katalon Studio

Build a strong foundation in API automation testing using Katalon Studio, from core API concepts to real world testing scenarios. Learn how to design, automate, validate, and report API tests while integrating them seamlessly into CI/CD pipelines for reliable and scalable testing.

Why Katalon?

Faster API automation

Design and run API suites quickly in Katalon Studio.

DevOps alignment

Integrate API tests into CI/CD quality gates.

Consistent validation

Standardize assertions, data, and reporting for APIs.

Maintainable frameworks

Build reusable scripts and test data patterns.

What you'll be able to do

- ✓ Gain a solid understanding of the fundamentals of API testing, including different types of APIs and their usage.
- ✓ Learn how to create and manage API testing projects in Katalon Studio.
- ✓ Gain proficiency in writing automated API tests using Katalon Studio's intuitive interface.
- ✓ Understand how to validate API responses and deal with different types of data.
- ✓ Learn how to integrate API testing into a continuous integration/continuous delivery (CI/CD) pipeline.
- ✓ Understand best practices for API automation testing, including test design, maintenance, and execution.
- ✓ Get hands-on experience with real-world API testing scenarios and challenges.
- ✓ Learn how to troubleshoot common issues and errors in API testing with Katalon Studio.
- ✓ Understand how to generate comprehensive API testing reports and metrics for effective test analysis and communication.

Who this is for

- Software Testers
- Automation Test Engineers
- Developers
- Quality Assurance (QA) Analysts
- Technical Managers

Curriculum

01 API Testing Foundations

- Apply api testing foundations using Katalon Studio in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
- Capture reusable patterns for team frameworks

02 Tool Setup

- Apply tool setup using Katalon Studio in practical test workflows
- Build and run hands-on exercises with realistic scenarios
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03 Auth and Security

- Apply auth and security using Katalon Studio in practical test workflows
- Build and run hands-on exercises with realistic scenarios
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04 Request/Response Validation

- Apply request/response validation using Katalon Studio in practical test workflows
- Build and run hands-on exercises with realistic scenarios
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05 Data-Driven Tests

- Apply data-driven tests using Katalon Studio in practical test workflows
- Build and run hands-on exercises with realistic scenarios
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06 Suites and Reuse

- Apply suites and reuse using Katalon Studio in practical test workflows
- Build and run hands-on exercises with realistic scenarios
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07 Contract Testing

- Apply contract testing using Katalon Studio in practical test workflows
- Build and run hands-on exercises with realistic scenarios
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08 CI/CD Integration

- Apply ci/cd integration using Katalon Studio in practical test workflows
- Build and run hands-on exercises with realistic scenarios
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09 Reporting and Debugging

- Apply reporting and debugging using Katalon Studio in practical test workflows
- Build and run hands-on exercises with realistic scenarios
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10 Framework Design

- Apply framework design using Katalon Studio in practical test workflows
- Build and run hands-on exercises with realistic scenarios
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11 Best Practices and Case Studies

- Apply best practices and case studies using Katalon Studio in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
- Capture reusable patterns for team frameworks