

QA

INTERMEDIATE

4 DAYS

API Automation Testing with Karate Framework

Build a strong foundation in API automation testing using the Karate Framework, covering functional, performance, and security testing. Learn how to apply BDD principles, develop automated test scripts for RESTful APIs, and integrate API testing into CI/CD pipelines for faster and more reliable delivery.

Why Karate?

Faster and More Efficient Testing

With API automation testing using Karate Framework, you can automate the testing process and significantly reduce testing time. This enables faster delivery of software products.

Improved Quality

By automating API testing with Karate Framework, you can ensure that your software products meet the highest quality standards.

Increased Test Coverage

API automation testing with Karate Framework allows you to test a large number of scenarios thus ensuring that your software products are thoroughly tested and free of bugs and issues.

What you'll be able to do

- ✓ Gain an understanding of API testing fundamentals and automation's benefits.
- ✓ Understanding the features and capabilities of the Karate Framework.
- ✓ Learn how to use Karate Framework to automate API testing for functional, performance, and security testing.
- ✓ Develop and implement test scripts for RESTful APIs using Karate syntax.
- ✓ Understanding the principles of Behavior Driven Development (BDD) and how to use them with the Karate Framework.
- ✓ Learn how to use Karate Framework to integrate API testing with Continuous Integration and Continuous Deployment (CI/CD) pipelines.

Who this is for

- Software developers
- Testers
- Quality Assurance professionals
- DevOps engineers
- Project Managers
- Business Analysts
- IT Consultants

Curriculum

01 API Testing Foundations

- Apply api testing foundations using Karate 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 Karate in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
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03 Auth and Security

- Apply auth and security using Karate 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 Karate 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 Karate 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 Karate in practical test workflows
- Build and run hands-on exercises with realistic scenarios
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07 Contract Testing

- Apply contract testing using Karate 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 Karate 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 Karate in practical test workflows
- Build and run hands-on exercises with realistic scenarios
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10 Framework Design

- Apply framework design using Karate 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 Karate 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