

QA

ADVANCED

4 DAYS

API Automation Testing with RestSharp

Build a strong foundation in API automation testing using RestSharp, from core concepts to framework setup and execution. Learn how to design effective API tests and integrate automated testing into the software development lifecycle for reliable and scalable API validation.

Why RestSharp?

Improve the quality and reliability of your API

By automating the testing of your API, you can identify defects and issues early in the development process, allowing you to fix them before they become critical. This can improve the overall quality and reliability of your API.

Reduce the risk of defects and vulnerabilities

Automated API testing with RestSharp can help identify defects and vulnerabilities in your API, allowing you to fix them before they become security risks or cause critical issues.

Increase efficiency and productivity

Automated API testing with RestSharp can save time and resources compared to manual testing.

What you'll be able to do

- ✓ Gain an understanding of the key concepts and best practices of API automation testing
- ✓ Learn how to use the RestSharp library to write automated tests for RESTful APIs
- ✓ Learn how to set up a test automation framework for API testing with RestSharp
- ✓ Learn how to integrate API testing with RestSharp into the software development lifecycle
- ✓ Learn how to design and execute effective API tests with RestSharp

Who this is for

- Software developers
- Quality assurance professionals
- Technical leads
- Software architects
- DevOps engineers
- Business analysts

Curriculum

01 API Testing Foundations

- Apply api testing foundations using RestSharp 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 RestSharp 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 RestSharp 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 RestSharp in practical test workflows
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05 Data-Driven Tests

- Apply data-driven tests using RestSharp in practical test workflows
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06 Suites and Reuse

- Apply suites and reuse using RestSharp in practical test workflows
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07 Contract Testing

- Apply contract testing using RestSharp in practical test workflows
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08 CI/CD Integration

- Apply ci/cd integration using RestSharp in practical test workflows
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09 Reporting and Debugging

- Apply reporting and debugging using RestSharp in practical test workflows
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10 Framework Design

- Apply framework design using RestSharp 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 RestSharp in practical test workflows
- Build and run hands-on exercises with realistic scenarios
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