

QA

INTERMEDIATE

4 DAYS

API Automation Testing with Cypress

Build a strong foundation in API automation testing using Cypress, from environment setup to scalable test suite design. Learn how to create, debug, and maintain API tests while integrating them into modern development workflows for reliable and efficient delivery.

Why Cypress?

Efficient and Reliable Testing

Cypress provides a robust and efficient framework for API testing that can help businesses to test their APIs more effectively and efficiently.

Faster Time-to-Market

With API automation testing using Cypress, businesses can speed up their software development process, resulting in faster time-to-market.

Improved Quality and Performance

API automation testing with Cypress can help businesses improve their APIs' quality and performance.

Cost-Effective Solution

Cypress is an open-source framework, which means that it is available for free. This can significantly reduce the costs associated with API testing, making it a cost-effective solution for businesses of all sizes.

What you'll be able to do

- ✓ Gain a solid understanding of the fundamentals of API testing and automation.
- ✓ Learning how to set up a testing environment using Cypress.
- ✓ Understanding the syntax and commands of Cypress for API testing.
- ✓ Learning how to create and execute API test cases using Cypress.
- ✓ Understanding how to debug and troubleshoot test failures.
- ✓ Learning how to integrate Cypress with other tools and frameworks.
- ✓ Understanding how to use Cypress for test reporting and analysis.
- ✓ Learning how to create a robust and scalable API test suite.
- ✓ Understanding how to incorporate API testing into the overall software development process.
- ✓ Learning how to maintain and update the API test suite over time.

Who this is for

- Test Automation Engineers
- Software Developers
- Quality Assurance Engineers
- DevOps Engineers
- Software Development Managers

Curriculum

01 API Testing Foundations

- Apply api testing foundations using Cypress 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 Cypress 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 Cypress 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 Cypress 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 Cypress 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 Cypress in practical test workflows
- Build and run hands-on exercises with realistic scenarios
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07 Contract Testing

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

- Apply framework design using Cypress 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 Cypress in practical test workflows
- Build and run hands-on exercises with realistic scenarios
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- Capture reusable patterns for team frameworks