

Cypress.io



e-Learning Course

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COURSE MODULES



Module 1: Introduction to Cypress

- What is Cypress?
- Cypress vs. Selenium vs. Playwright
- Installing Cypress
- Cypress Folder Structure
- Writing Your First Test

Module 2: Cypress Basics

- Understanding Test Runner
- Writing Basic Test Cases
- Interacting with Web Elements (`cy.get()`, `cy.contains()`)
- Assertions in Cypress (`should()`, `expect()`)
- Running Tests in Headless & GUI Mode

Module 3: Test Automation with Cypress

- Handling Input Fields & Forms
- Handling Buttons, Dropdowns, and Checkboxes
- Working with Alerts, Popups & Modals
- Handling Navigation & Page Reloads

Module 4: Cypress Commands & Customization

- Cypress Built-in Commands
- Creating Custom Commands (`Cypress.Commands.add()`)
- Using Aliases & Variables (`as()`, `cy.wrap()`)
- Debugging Cypress Tests

Module 5: Network Requests & API Testing

- Mocking API Responses (`cy.intercept()`)
- Validating API Responses & Status Codes
- Stubbing & Spying API Calls
- Using Fixtures for Data-Driven Testing

Module 6: Working with Fixtures & Data

- What Are Fixtures?
- Using JSON Data for Test Cases
- Handling Dynamic Data in Tests
- Importing External Data Files

Module 7: Cypress Hooks & Test Organization

- `before()`, `beforeEach()`, `after()`, `afterEach()` Hooks
- Organizing Tests with `describe()` & `it()`
- Using Tags to Filter Tests (`only`, `skip`)
- Running Tests in Parallel

Module 8: Handling iframes & Multiple Tabs

- Working with iFrames in Cypress
- Switching Between Windows & Tabs
- Handling Cross-Origin Errors

Module 9: Visual Testing & Screenshot Capture

- Taking Screenshots & Videos
- Comparing Screenshots for Visual Regression
- Using Cypress Plugins for Visual Testing

Module 10: Continuous Integration (CI/CD) with Cypress

- Running Cypress in CI/CD Pipelines
- Setting Up Cypress with GitHub Actions, Jenkins, CircleCI
- Running Tests on Docker

Module 11: Performance & Best Practices

- Best Practices for Writing Cypress Tests
- Improving Test Speed & Avoiding Flaky Tests
- Debugging Slow & Failing Tests