

Fundamentals of automated software testing with Cypress and Javascript – hands on Training Course

CODE CYPRESS

Course duration 20h (4h-8h-8h)

Course type online

Participants 5-12

Course overview

This course covers Cypress, known as the reliable JavaScripts based tool, used for testing web-applications. Cypress is fundamentally and architecturally different from Selenium and, thus, enables to write much faster, easier, and reliable tests. The course walks participants through best practices, know-how guide, used in daily work at commerce IT Projects.

Participant will learn how to navigate Cypress UI and the advanced features to be able to learn the basic of writing tests in Cypress. The course key elements: work with code change repository, using Node Package Manager, working with JavaScript & React front-end applications with API services in Java back-end layer, implementing API testing, CRUD testing, creating custom Cypress commands, working with plug-ins, Google Chrome development toolkit, and Cypress documentation.

Course goals

- gain the knowledge and skills to apply them directly on daily work projects, implement Web-application automated test scripts with Cypress and API
- familiarize with installing, configuring and work with development environment (IDE, GIT, NPM, React, Java, API, Mocha, Swagger, Cypress documentation)

Practical skills

- well understanding and using Cypress
- performed end-to-end automation testing with Cypress
- implement integration and tests with API and mock-up back-end application layer
- ability to work independently and to use Cypress documentation in practise, daily work

Tools & add-ons necessary to conduct the event

- Before starting the training, each participant will receive an information deck with details, what/how to prepare, software, tools and useful links, required for installation on participant's computer
- Admin user access/permission is required on participant's laptop/computer
- Training will be conducted on [ClickMeeting](#) platform (web browser) Link to event will be sent to Participants before training

Requirements and Target Audience

This training is suitable for software testers, developers, and other IT Projects members, who want to learn how to work with Cypress in IT/QA daily work, or want to improve implemented automated test processes.

Course outline

Day 1

- GUI automated test process introduction - pros & cons, risk, Selenium and Cypress use case comparison
- design and environment architecture under tests - overview
- development environment set up, IDE, working with GIT, working with test runners
- installing Cypress, first steps and code analysis/review
- Javascript and Mocha testing framework introduction
- sample automated test scripts run, analysis, and implement first test in project
- working with Google Chrome console, as one of the most important tool in developer and tester toolset

Day 2

- introduction, Cypress overview
- good practices know-how in automated test process, first test set up and assertions
- implement automated test scripts for web-application
- hand-on workshop, implementing GUI automated test process

Day 3

- mock-up back-end layer introduction- why is it important?
- mock-up back-end implementing with Cypress - cy.intercept, as one of the most crucial functionalities
- project patterns - Page Object Pattern
- hand-on implementation in a live-lab environment