

CELEBRATING
13 YEARS

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Cypress
Test Automation Tool

Introduction to Cypress and its advantages in Automation world

- ⇒ What is Cypress? And why it is future of Automation
- ⇒ Understand Cypress Architecture and its benefits

Step by Step instructions for Cypress Installation & project Setup

- ⇒ Learning JavaScript Fundamentals from Scratch
- ✓ Setup Visual studio Code
- ✓ Write Hello world program
- ✓ Variables declaration
- ✓ Data types
- ✓ Loops & conditions
- ✓ Logical operators
- ✓ Arrays and methods
- ✓ Functions
- ✓ Var, Let and const Keywords
- ✓ String and its related functions
- ✓ Objects, Classed and its properties, methods
- ⇒ Install Node.js, VS Code & Cypress for Window

Introduction to Cypress Test Runner and command line features

- ⇒ What is Cypress TestRunner
- ⇒ Important Note on Cypress Versions
- ⇒ Build Cypress Basic test and run from test Runner
- ⇒ Running Cypress tests in supported browsers
- ⇒ Exploring the Cypress project Framework structure

Getting started with Cypress Test Automation

- ⇒ Introduction to AUT (application under test) => A web application to automate
- ⇒ Cypress locator strategies and how to construct them
- ⇒ Cypress inbuilt plugin in testRunner to generate locators
- ⇒ Basic Assertion in writing the tests with Cypress
- ⇒ Handling Invisible elements with Cypress by understanding logs

Deep diving into Cypress Commands and its Asynchronous Nature

- ⇒ Understanding get and find commands with Cypress
- ⇒ Grabbing the text for validations using cypress text commands
- ⇒ Cypress ASynchronous nature and its promise handling
- ⇒ Understanding the difference between JQuery methods and cypress commands

Handling Web Controls UI using Cypress

- ⇒ How to verify and automate check boxes with Cypress
- ⇒ Handling static dropdowns using select command with Cypress
- ⇒ Handling Dynamic dropdowns with each command iteration
- ⇒ Handling Visible and invisible elements using Assertions in Cypress

Advance Automation to handling Alerts, popups, Child Windows using Cypress-Jquery

- ⇒ How Cypress auto handles Alerts in web Apps
- ⇒ Handling Child tab with combination of Cypress & JQuery commands
- ⇒ Navigating browser controls using Cypress
- ⇒ Handling Web tables with Cypress using each command
- ⇒ Handling Mouse hover popus using Cypress

Understand How to Automate Frames & Child windows in Cypress

- ⇒ Handling Child windows using Cypress
- ⇒ Handling Frames with Cypress

Cypress Framework - Understanding Fixtures and Custom commands

- ⇒ Setting up Test Hooks
- ⇒ Data driven testing with fixtures
- ⇒ Building custom cypress commands
- ⇒ Parametrize tests with multi data set
- ⇒ Test debugging
- ⇒ Build Page Object Design pattern for objects
- ⇒ Configuration in cypress.json
- ⇒ Screen shots and Video recording of tests
- ⇒ Cypress Dashboard
- ⇒ Environmental variables of cypress
- ⇒ Rerun failed tests with Cypress retries configuration
- ⇒ Generate reports for test execution
- ⇒ Integrate cypress tests with Jenkins CI

Cypress BDD Cucumber Framework Integration to Mocha

- ⇒ What is BDD and Cucumber? Benefits of it
- ⇒ Install Cucumber Cypress Pre-processor Plugin and set it in index.js file
- ⇒ Converting Cypress Mocha Tests to Feature files with Gherkin Syntax
- ⇒ Implementing Step Definition files for features built with real cypress code
- ⇒ Data Driven Testing using Cucumber Data table feature for Cypress Tests
- ⇒ Tagging Implementation to Control Test Execution for Cucumber Scenarios
- ⇒ Building Cucumber Html reports for the Cypress Cucumber Test Scenarios

Mocking Http requests/responses with Cypress

- ⇒ End to End Automation test execution using Cypress-Cucumber standards
- ⇒ Mock HTTP Responses for generating Stub Data to test edge Scenarios
- ⇒ Integration Testing with Front end and Back End response validation assertions
- ⇒ Intercepting HTTP request details to test Security Scenarios
- ⇒ Handling API call directly without involving browser with cypress

Session Token & Local Storage Data saving with Cypress & CSV Parsers

- ⇒ Understand how JWT Session token works on browsers with example
- ⇒ Make Login API Calls to extract the response token using Cypress
- ⇒ How to save the Login tokens in browser Local storage using Cypress
- ⇒ Complete End to end flow of purchasing the order with UI Script
- ⇒ Where Cypress downloads the browser files and how to get Project path dynamically.
- ⇒ Parsing CSV files into JavaScript object using Cypress neat CSV plugin

Cypress DB Integration Testing Strategy

- ⇒ Setting up SQL Server with Azure for Cypress Testing
- ⇒ Cypress DB Plugin Integration for DB Testing



OUR STUDENTS ARE PLACED IN



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