Cypress: is **front end testing tool built for the Web applications**. Cypress is free open source, locally installed Test Runner and a Dashboard service for recoding the tests.

Cypress enables to write all types of tests

* **End – To – End Tests**
* **Integration Tests**
* **Unit Test**

Cypress can test anything that runs in a browser.

Cypress makes it simple to:

1. Set up tests
2. Write tests
3. Run tests
4. Debug tests

Cypress is used by both Developers and QA’s building web application using JavaScript framework

First: Cypress makes it easy to set up and start writing tests every day while we are build our application locally. TDD at its best.

Later: After building up a suite of tests and integrating Cypress with our CI provider, Cypress Dashboard service can record test runs, why did the test fail.

Features of Cypress:

Cypress takes snapshots as your tests run. Simply hover over commands in the Command Log. To see exactly what happened at each step.

Cypress automatically reloads whenever you make changes to your test. See commands execute in real time in your app.

Cypress verify and control the behavior of functions, server responses or timers. The same functionality you love from unit testing is right at your fingertips.

Consistent results, fast, consistent and reliable tests. Cypress architecture doesn’t use Selenium or WebDriver.

Debug directly from familiar tools like Chrome DevTools.

Automatic waits

Network traffic control. Easily control, stub and test edge cases without involving Server.

Screenshots and Videos, view screenshots taken automatically on failure or videos of entire test suite when run heedlessly.