

# ❖ CYPRESS TOPIC

## I. UI AUTOMATION

1. Introduction to cypress
2. Prerequisites & Basic installation
3. Dom structure
4. Locators/CSS selectors
5. Basic cypress commands & Assertions
6. First test case in cypress
7. Traversing methods
8. Working with Input field
  - i. Text input
  - ii. Text Area
  - iii. Radio buttons
  - iv. Check box
  - v. Key pressing
  - vi. Button
  - vii. Date picker (Calendar )
  - viii. Dropdown :-
    - a. Static dropdown
    - b. Dynamic dropdown
    - c. Dependent dropdown
9. Real events in cypress
10. Mouse actions
11. Node-list iteration ( Working with multiple elements )
12. Variables
13. Custom commands & Utility functions
14. Cypress commands

- 1) [clearCookie](#)
- 2) [clearCookies](#)
- 3) [clearLocalStorage](#)
- 4) [clock](#)
- 5) [debug](#)
- 6) [document](#)
- 7) [focus](#)
- 8) [getCookie](#)
- 9) [getCookies](#)
- 10) [hash](#)
- 11) [hover](#)
- 12) [location](#)

- 13) [pause](#)
- 14) [root](#)
- 15) [server](#)
- 16) [session](#)
- 17) [setCookie](#)
- 18) [spread](#)
- 19) [spy](#)
- 20) [stub](#)
- 21) [submit](#)
- 22) [task](#)
- 23) [tick](#)
- 24) [viewport](#)

## 15. Table handling

- i. Complex table structure
- ii. Utility
- iii. Pagination
- iv. Plugin

## 16. File Handling

- i. File upload
- ii. File Download
- iii. Read File
- iv. Write File

## 17. Interacting with window based elements

## 18. Window Popups

- i. Alert
- ii. Confirm
- iii. Prompt

## 19. I-frames

- i. Iframe handling different methods
- ii. Iframe plugin

## 20. Multitab Handling / tab switching

- i. On Document page
- ii. On window

## 21. Hidden Elements/ Shadow Elements

## 22. Fixture file & Data driven testing

## 23. Promises

## 24. Hooks in cypress MOCHA

## 25. Synch & Asynch

## 26. Headed & headless modes of runner

## 27. Environment Variables in cypress

## 28. Cross Browser Testing

### II. **API AUTOMATION**

1. Request (CURD operations)
2. Authentication & Token generation
3. API Chaining
4. Bypass API login, SSO login, logout
5. Cookies and storage Handling
6. Intercept & XHR requests (Wait and Data mocking and stubbing (Project))

### III. **DATABASE TESTING**

1. SQL Database testing

### IV. **OTHER**

1. Debugging/ Error handling
2. Cypress project through Jenkins
3. Report generation
  - i. HTML report
  - ii. Allure report

### V. **CYPRESS FRAMEWORKS**

1. MOCHA
2. POM
3. BDD
4. POM+BDD
5. JEST ( Unit Testing )