The cypress.config.js (or .ts) file in Cypress is used to configure the behavior of Cypress tests. This file allows you to define various settings like environment variables, timeouts, test folder locations, and more. It is central to configuring how Cypress interacts with your application during testing.

### **Key Features of cypress.config.js:**

1. **Modular Configuration**:
   * Cypress v10+ uses a new way of defining configuration in a cypress.config.js or cypress.config.ts file, replacing the older cypress.json format.
   * This configuration file allows for modular setup of test environments.
2. **File Location**:
   * The cypress.config.js file is located at the root of your Cypress project.

// cypress.config.js

const { defineConfig } = require('cypress');

module.exports = defineConfig({

e2e: {

baseUrl: 'http://localhost:3000', // Define the base URL

supportFile: 'cypress/support/index.js', // Path to the support file

specPattern: 'cypress/e2e/\*\*/\*.cy.js', // Define test file pattern

excludeSpecPattern: '\*\*/examples/\*', // Files to exclude

setupNodeEvents(on, config) {

// implement node event listeners here

},

},

env: {

login\_email: 'user@test.com',

login\_password: 'password123', // Set environment variables

},

defaultCommandTimeout: 8000, // Set command timeout

retries: {

runMode: 2, // Retries in run mode

openMode: 1, // Retries in open mode

},

});

### **Main Configuration Options:**

#### **1. e2e:**

* This is the core of the configuration, where you set up end-to-end testing options.

e2e: {

baseUrl: 'http://localhost:3000',

supportFile: 'cypress/support/index.js',

specPattern: 'cypress/e2e/\*\*/\*.cy.js',

}

#### **2. baseUrl:**

* This is the base URL of your application, which will be used in your tests for visiting pages. It’s a default value used when cy.visit() is called without a full URL.

baseUrl: 'http://localhost:3000'

#### **3. specPattern:**

* This option specifies which test files Cypress should look for in your e2e directory. It uses a glob pattern.

Example

specPattern: 'cypress/e2e/\*\*/\*.cy.js'