## Types of Tests

Unit	
Description	Test one unit of code (for example, a function or React component) in isolation
Notes	Mocks can be used to keep tests isolated from other functions
Example (React / web)	Test that an input box turns red when the input is invalid
Common Tools (React / Web)	Jest, Enzyme, Testing Library

Integration		
Description	Test how multiple units work together	
Notes	Tests the interface between two or more units	
Example (React / web)	Test that a parent component passes correct props to a child component	
Common Tools (React / Web)	Jest, Enzyme, Testing Library	

Functional		
Description	Test a user flow	
Notes	These tests are not tightly associated with code, and instead try to simulate user experience. They could be unit tests or integration tests, depending on how many components are involved.	
Example (React / web)	Enter a number into an input box for an option, and test that the app updates the total displayed on the page	
Common Tools (React / Web)	Jest, Enzyme, Testing Library	

Acceptance / End-to-End (E2E)		
Description	Use actual browser and server to test user experience	
Notes	These are usually functional tests, though most tools allow checking code, such as rendered HTML and attributes	
Example (React / web)	Open the page, log in, and submit a new order to the server. Check that the order shows in the "my orders" list	
Common Tools (React / Web)	Cypress, Selenium	