

React Unit Test documentation

Testing Login functionalities:

Summary: The LoginForm component is responsible for taking user input using two input fields Username and Password. These inputs are then passed onto the backend for user validation. The form must contain empty input values when rendered, and empty values should not be sent to the backend. As user enters values into input fields, these values should be captured, and when the user click on the submit button these values must be passed onto backend for user validation. After successful login user must be redirected to their dashboard, unsuccessful login should remain on the login page.

List of Unit Test functions:

- Should render the form component correctly
- Has default input value for username as empty
- Has default input value for password as empty
- Changes input value for username
- Changes input value for password

Test execution and result evidence:

```
PASS src/Components/LoginForm.test.js
Login Form Unit Tests
  ✓ Should render the form component correctly (5ms)
  Check if input values are initially empty
    ✓ Has default input value for username as empty (4ms)
    ✓ Has default input value for password as empty (1ms)
  Check if input value changes after user input
    ✓ Changes input value for username (3ms)
    ✓ Changes input value for password (1ms)

Test Suites: 1 passed, 1 total
Tests:       5 passed, 5 total
Snapshots:   0 total
Time:        4.288s, estimated 5s
Ran all test suites matching /LoginForm/i.
```

Testing Register functionalities:

Summary: The RegistrationForm component is responsible for taking user input using six input fields Full Name, Address, Phone Number, User Name, Password and Confirm Password. The form must contain empty input values when rendered, and empty values should not be sent to the backend. As a user enters a value into one of the field it should show an error if the input doesn't meet the criteria required. The form should send all the user inputs to backend only if there are no errors present in the form. Once the user has successfully register an account it should then redirect the user to home page.

List of Unit Test functions:

- Should render registration form
- Updates name field on change
- Updates address field on change
- Updates phone field on change
- Updates username field on change
- Updates password field on change
- Updates confirmPass field on change

Test execution and result evidence:

```
PASS src/Components/RegistrationForm.test.js
  Render form
    ✓ Should render registration form (28ms)
  Input Values
    ✓ Updates name field on change (16ms)
    ✓ Updates address field on change (8ms)
    ✓ Updates phone field on change (5ms)
    ✓ Updates username field on change (5ms)
    ✓ Updates password field on change (4ms)
    ✓ Updates confirmPass field on change (4ms)

Test Suites: 1 passed, 1 total
Tests:       7 passed, 7 total
Snapshots:  1 passed, 1 total
Time:        4.003s
Ran all test suites matching /RegistrationForm/i.
```