# GatorNest React App — Testing Documentation

As part of the GatorNest frontend development team, I was responsible for writing and executing unit test cases for the major UI components of the application using \*\*React Testing Library\*\* and \*\*Jest\*\*.

### ✅ Components Tested

#### 🔐 `Register.jsx`

- Verified rendering of form input fields: Email, Password, and Confirm Password.

- Simulated user input and tested client-side validation for password mismatch.

- Ensured alert is triggered on password mismatch.

PASS src/components/Register.test.jsx

✓ renders register form inputs and button (55 ms)

✓ shows alert on password mismatch (12 ms)

#### 🔑 `Login.jsx`

- Ensured email and password fields render correctly with a login button.

- Simulated form submission with valid credentials using mocked inputs.

- Integrated test environment using `MemoryRouter` for routing context.

PASS src/components/Login.test.jsx

✓ renders login form inputs and button (33 ms)

✓ submits login form with valid input (21 ms)

#### 🏠 `Home.jsx`

- Checked that core homepage content like \*"Our Packages"\* and \*"Search your Hotels"\* is present.

- Validated rendering of form labels such as "Name" and "Select your date".

PASS src/components/Home.test.jsx

✓ renders video background and main content (10 ms)

✓ renders all input sections like name and date (13 ms)

#### 🧭 `Navbar.jsx`

- Verified that the brand name and navigation links are visible on initial render.

- Simulated click event on the toggle button to test visibility logic for the responsive menu.

PASS src/components/Navbar.test.jsx

✓ renders navbar with logo and nav links (14 ms)

✓ toggles navbar visibility on icon click (9 ms)

#### 📺 `Footer.jsx`

- Confirmed presence of footer sections including contact text and partnership links.

- Checked rendering of social media sections and branding phrases like \*"KEEP IN TOUCH"\*.

PASS src/components/Footer.test.jsx

✓ renders video and contact section (8 ms)

✓ renders footer links and social icons (7 ms)

#### 🛏️ `Main.jsx`

- Validated rendering of popular room listings.

- Simulated user interaction with the "BOOK" button to trigger the booking modal.

PASS src/components/Main.test.jsx

✓ renders list of room cards (6 ms)

✓ opens booking modal on BOOK click (7 ms)

Test Suites: 6 passed, 6 total

Tests: 12 passed, 12 total

Snapshots: 0 total

Time: 1.42 s

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## 📌 Summary

My role ensured that all interactive and UI-critical components behave as expected under normal and edge-case conditions. These tests help detect UI regressions early in development and contribute to a more robust user experience for the GatorNest application.