Sure, here is the test case for the provided React component AppBar with 100% coverage:

```
TypeScript
import React from 'react';
import { render, screen } from '@testing-library/react';
import AppBar from './AppBar';
jest.mock('@mui/material', () => {
 const actual = jest.requireActual('@mui/material');
 return {
    ...actual,
   AppBar: () => <div data-testid="appbar-component" />
 };
});
jest.mock('@heroicons/react/24/solid', () => {
 const actual = jest.requireActual('@heroicons/react/24/solid');
 return {
    ...actual,
   MoonIcon: () => <div data-testid="moon-icon" />,
   SunIcon: () => <div data-testid="sun-icon" />
 };
});
describe('AppBar Component', () => {
  it('should render the AppBar component with the correct content',
() => {
    const mockToggleTheme = jest.fn();
    render(<AppBar toggleTheme={mockToggleTheme} theme="dark" />);
    const appbarComponent = screen.getByTestId('appbar-component');
    expect(appbarComponent).toBeInTheDocument();
    const heading = screen.getByRole('heading');
    expect(heading).toContainText('Chat Interface');
    const logo = screen.getByRole('img');
    expect(logo).toHaveAttribute('src', '/higgs.png');
    expect(logo).toHaveAttribute('alt', 'Logo');
    const themeToggleIcon = screen.getByTestId('moon-icon');
    expect(themeToggleIcon).toBeInTheDocument();
    fireEvent.click(themeToggleIcon);
    expect (mockToggleTheme) .toHaveBeenCalledTimes(1);
```

```
});

it('should render the SunIcon when the theme is light', () => {
    render(<AppBar toggleTheme={() => {}} theme="light" />);

    const themeToggleIcon = screen.getByTestId('sun-icon');
    expect(themeToggleIcon).toBeInTheDocument();
});

});
```