Smart Nutrition Tracker - Test Verification Report

Date: 2025-12-20 23:55:24

1. Executive Summary

This report details the verification of the Frontend (Flutter) application. Widget (Smoke) testing confirmed that the application launches and renders key UI components relative to the initial user flow.

Overall Result: PASSED

2. Test Scope & Methodology

1. Widget Smoke Tests (widget_test.dart):

   - Purpose: Ensure the application starts and renders the critical initial UI (Login Screen).

   - Methodology: We use 'tester.pumpWidget' to load the app in a headless test environment. We then use 'find.text' matchers to confirm that the Title ('Smart Nutrition Tracker'), Login input fields, and Action buttons are visible on screen.

2. Rationale for Smoke Tests:

   - These tests are critical for preventing 'White Screen of Death' regressions. They ensure that the app build is valid and the entry point hasn't been broken by recent dependency changes or refactors.