**Test Cases: Skin Disease Detection Web Application**

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**1. Introduction**

**1.1 Purpose**

The purpose of this document is to define and detail the test cases for the Skin Disease Detection Web Application. It outlines specific actions, inputs, expected outputs, and results to ensure the system behaves as intended under a variety of conditions.

**1.2 Scope**

This report covers test cases for core functionalities of the application including image upload, model inference, results display, payment gateway integration, PDF report generation, and user experience across devices.

**2.** Test Case Objectives

* Verify each core functionality of the application operates as expected.
* Ensure the system handles valid and invalid inputs properly.
* Confirm that edge cases and user errors are managed gracefully.
* Validate the user experience across modules (upload, model, payment, report).
* Document actual behavior and identify any deviations from expected behavior.

**3. Test Case Format**

Each test case is described using the following format:

* Test Case ID
* Module / Feature
* Description
* Pre-conditions
* Test Steps
* Expected Result
* Actual Result
* Status (Pass/Fail)

**4. Test Cases**

4**.1.Test Case ID: TC-01**

* Module / Feature: Image Upload
* Description: Verify system accepts a valid JPG image under size limit.
* Pre-conditions: User is on image upload screen.
* Test Steps: Upload a valid .jpg image less than 5MB.
* Expected Result: Image is accepted and preview is displayed.
* Actual Result: Image accepted successfully.
* Status: Pass

4**.2. Test Case ID: TC-02**

* Module / Feature: Image Upload
* Description: Reject unsupported file type (e.g., .pdf).
* Pre-conditions: User is on image upload screen.
* Test Steps: Attempt to upload a .pdf file.
* Expected Result: Error message indicating unsupported file type.
* Actual Result: Proper error message displayed.
* Status: Pass

4**.3. Test Case ID: TC-03**

* Module / Feature: Model Inference
* Description: Verify accurate prediction for Acne image.
* Pre-conditions: Valid Acne image is uploaded.
* Test Steps: Submit image for analysis.
* Expected Result: Disease predicted as 'Acne' with high confidence.
* Actual Result: Acne predicted with 91% confidence.
* Status: Pass

4**.4. Test Case ID: TC-04**

* Module / Feature: Payment
* Description: Handle failed transaction with invalid card number.
* Pre-conditions: User proceeds to payment screen.
* Test Steps: Enter an invalid card number and submit.
* Expected Result: Transaction fails with proper error message.
* Actual Result: Payment rejected with correct error.
* Status: Pass

**4.5. Test Case ID: TC-05**

* Module / Feature: PDF Report
* Description: Check if PDF includes correct disease and tips.
* Pre-conditions: Prediction for Eczema is complete.
* Test Steps: Click on 'Download Report'.
* Expected Result: PDF includes disease name, symptoms, care tips, and watermark.
* Actual Result: All elements correctly displayed in PDF.
* Status: Pass

**5. Approval**

This Test cases has been reviewed and approved by the following stakeholders:

[Test Lead Name]: Burhan Ahmed Date:  11/6/2025