Summer 2025

Team Member name 1   
Team Member name 2   
…..

….

<Project Name>

Software Requirements Specification

<Group Name> | Group #

Executive Summary

# Background

# Description

## Company Value Add

## End-User Value Add

# Scope

## What is Included

## What is Not Included

# Justification

Table of Contents

[Executive Summary 1](#_Toc197966208)

[Background 1](#_Toc197966209)

[Description 1](#_Toc197966210)

[Company Value Add 1](#_Toc197966211)

[End-User Value Add 1](#_Toc197966212)

[Scope 1](#_Toc197966213)

[What is Included 1](#_Toc197966214)

[What is Not Included 1](#_Toc197966215)

[Justification 1](#_Toc197966216)

[Section 1 4](#_Toc197966217)

[1.1 Document Authors 4](#_Toc197966218)

[1.2 Document Revision History 4](#_Toc197966219)

[1.3 Document Purpose 5](#_Toc197966220)

[1.4 Audience 5](#_Toc197966221)

[1.5 Group Agreement 5](#_Toc197966222)

[Team # 5](#_Toc197966223)

[Project Title 5](#_Toc197966224)

[Project Time Frame 5](#_Toc197966225)

[Team Members 5](#_Toc197966226)

[Team Leadership 5](#_Toc197966227)

[Team Functions/Roles 5](#_Toc197966228)

[Team Meetings 5](#_Toc197966229)

[Team Problems 5](#_Toc197966230)

[Team Commitment 5](#_Toc197966231)

[Section 2 6](#_Toc197966232)

[2.1 Project Proposal 6](#_Toc197966233)

[2.1.1 Project Background 6](#_Toc197966234)

[2.1.2 Problem Statement 6](#_Toc197966235)

[2.1.3 Product Vision 6](#_Toc197966236)

[2.2 Stakeholders and Users 6](#_Toc197966237)

[2.3 Project Scope 6](#_Toc197966238)

[2.4 System Rosks 6](#_Toc197966239)

[2.5 Operating Environment 6](#_Toc197966240)

[2.6 Functional Requirements 6](#_Toc197966241)

[2.7 Nonfunctional Requirements 6](#_Toc197966242)

[2.8 UI/UX Interface Mock-ups 6](#_Toc197966243)

[Section 3 7](#_Toc197966244)

[3.1 Workflow Diagrams 7](#_Toc197966245)

[3.2 Data Modelling and Flow 7](#_Toc197966246)

[3.3 Use Case Scenarios 7](#_Toc197966247)

[3.4 Activity Diagrams 7](#_Toc197966248)

[3.5 Business Rules 7](#_Toc197966249)

[Section 4 – Domain Class 8](#_Toc197966250)

[Section 5 – Database 8](#_Toc197966251)

[Section 6 – Project Management 8](#_Toc197966252)

[6.1 Work Breakdown Structure 8](#_Toc197966253)

[6.2 Milestones & Acceptance Criteria 8](#_Toc197966254)

[Section 7 – Product Backlog & Implementation Schedule 8](#_Toc197966255)

[Section 8 – Client/Faculty Sign-off 8](#_Toc197966256)

Section 1

# 1.1 Document Authors

# 1.2 Document Revision History

|  |  |  |
| --- | --- | --- |
| **WEEK** | **DATE** | **Revisions** |
| 1 |  |  |
| 2 |  |  |
| 3 | May 21, 2024 | * Sec## * Sec##.... |
| 4 | May 28, 2024 |  |
| 5 | June 11, 2024 |  |
| 6 | June 16, 2024 |  |
| 7 | July 2, 2024 |  |
| 8 | July 9, 2024 |  |
| 9 | July 23, 2024 |  |
| 11 | July 30, 2024 |  |
| 12 | August 6, 2024 |  |
| 13 |  |  |
| 14 |  |  |

# 1.3 Document Purpose

# 1.4 Audience

# 1.5 Group Agreement

### Team # **05**

### Project Title - **DermoScanners**

### Project Time Frame - **May 2024 – December 2024**

### **Team Members**

* + Arshdeep Kaur – Developer and UX Designer
  + Pranjal Sethi – Lead Developer
  + Harsimranjit Kaur – Project Manager and User Testing Lead

### **Team Leadership**

Harsimranjit Kaur (Project Manager)

### **Team Functions/Roles**

* + Research & Technical Feasibility – Pranjal
  + Frontend/UI Design – Arshdeep
  + Timeline & Milestone Tracking – Harsimranjit
  + Documentation & Testing – Shared responsibility

### **Team Meetings**

Meetings will be held virtually through Google Meets on every Tuesday around 5 p.m.

Additional meetings will be held in-person or virtually as per required.

Agenda :

* + Review of previous week’s tasks
  + Discussion of upcoming deliverables
  + Identification of any technical or design challenges
  + Task assignments for the next milestone

### **Team Problems**

The team may face certain challenges during the project such as:

* + Scheduling Conflicts – Due to various personal and academic timetables.
  + Task Confusion – Unclear roles can lead to duplicate work.
  + Technical Issues – Integrating features like barcode reader and chatbot may be complex.
  + Communication Gaps – Delays or miscommunication in updates.

To address the difficulties, the team will maintain a common Google Calendar to coordinate availability and avoid scheduling conflicts. Key tools and data sources will be identified and piloted early in the project to reduce technical risks. Weekly meetings will be held regularly to review progress, resolve issues, and ensure everyone remains on the same page.

### **Team Commitment**

The undersigned members agree to work together on the project until the end of the PRJ666 next Semester. They recognize that as a team and individually they are equally responsible for the quality of all deliverables.

|  |  |  |
| --- | --- | --- |
| **Name** | **Date** | **Signature** |
| |  |  |  | | --- | --- | --- | | Arshdeep Kaur |  |  | | |  |  |  | | --- | --- | --- | |  | May 24, 2024 |  | |  |
| |  |  |  | | --- | --- | --- | | Pranjal Sethi |  |  | | |  |  |  | | --- | --- | --- | |  | May 24, 2024 |  | | pranjal |
| |  |  | | --- | --- | | Harsimranjit Kaur |  | | |  |  | | --- | --- | |  | May 24, 2024 | |  |

Section 2

# 2.1 Project Proposal

## 2.1.1 Project Background

The skincare industry is expanding rapidly, with hundreds of new products being introduced annually.

However, consumers are generally overwhelmed while selecting products due to complex ingredient labels, contradictory online reviews, and the lack of personalized recommendations. DermoScanners aims to address this gap by providing a digital platform through which barcode scanning, ingredient filtering, and personalized skincare recommendations are enabled, assisting users in making more informed decisions.

## 2.1.2 Problem Statement

Consumer skin-care customers are faced with a dilemma in choosing suitable products.

Firstly, ingredient complexity bewilders consumers in understanding product labels, which have scientific or unfamiliar language.

Second, information is scattered—product reviews, ratings, and user experiences are spread across multiple platforms, making it time-consuming and inconsistent to research effectively.

Finally, no customized guidance since most shopping websites do not recommend products based on an individual's skin type, concern, or preference.

Consequently, the public loses time and money on wrong products. There is a tremendous demand for a smart, centralized platform that makes reading ingredients simple, consolidates review ratings, and delivers evidence-based, tailored recommendations for skincare.

## 2.1.3 Product Vision

**DermoScanners** will be a web application that allows the user to make educated choices in the selection of skincare products suitable for them. The website will offer:

* + Barcode scanning for instant product identification
  + Clear explanations of ingredients in plain language
  + Summarized product reviews with sentiment analysis
  + Side-by-side product comparisons (price, rating, compatibility)
  + AI-powered chatbot for skincare recommendations based on skin type and concern

The goal is to transform how consumers discover and evaluate skincare—reducing waste, improving results, and saving money.

# 2.2 Stakeholders and Users

**Internal:**

* **Role name/Persona** - Description.
* ……..

**External:**

* **Role name/Persona** - Description.
* ……..

# 2.3 Project Scope

# 2.4 System Rosks

# 2.5 Operating Environment

# 2.6 Functional Requirements

# 2.7 Nonfunctional Requirements

# 2.8 UI/UX Interface Mock-ups

Section 3

# 3.1 Data Flow Diagrams

# 3.2 Iser Stories and related Use Case Scenarios

# 3.3 Activity Diagrams

# 3.4 Business Rules

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Business Rule #** | **Description** | **Activity Diagram** | **Related UCS** | **UI  Mock-up** |
| BR1 |  | AD1 | UC1 | UI 2.7.2 |
| BR2 |  | AD2 | UC2 | UI 2.7.3 |
| BR3 |  | AD3 | UC3 | UI 2.7.4 |
| BR4 |  | AD3 | UC3 | UI 2.7.4 |
| BR5 |  | AD5 | UC4 | UI 2.7.6 |
| BR6 |  | AD6 | UC5 | UI 2.7.6 |
| BR7 |  | AD7 | UC6 | UI 2.7.7 |
| BR8 |  | AD8 | UC7 | UI 2.7.8 |
| BR9 |  | AD8 | UC7 | UI 2.7.8 |
| BR10 |  | AD8 | UC7 | UI 2.7.8 |
| BR11 |  | AD8 | UC7 | UI 2.7.8 |
| BR12 |  | AD8 | UC7 | UI 2.7.8 |
| BR13 |  | AD9 | UC8 | UI 2.7.9 |
| BR14 |  | AD9 | UC8 | UI 2.7.9 |
| BR15 |  | AD9 | UC8 | UI 2.7.9 |
| BR16 |  | AD9 | UC8 | UI 2.7.9 |
| BR17 |  | AD10 | AD9 | UI 2.7.9 |
| BR18 |  | AD10 | AD9 | UI 2.7.9 |
| BR19 |  | AD10 | AD9 | UI 2.7.9 |
| BR20 |  | AD11 | UC10 | UI 2.7.10 |
| BR21 |  | AD11 | UC10 | UI 2.7.11 |
| BR22 |  | AD11 | UC10 | UI 2.7.11 |
| BR23 |  | AD12 | UC11 | UI 2.7.10 |
| BR24 |  | AD13 | UC12 | UI 2.7.12 |

Section 4 – Domain Class

Section 5 – Database

Section 6 – Project Management

# 6.1 Work Breakdown Structure

# 6.2 Milestones & Acceptance Criteria

Section 7 – Product Backlog & Implementation Schedule

Section 8 – Client/Faculty Sign-off