

# SK!N – Skincare and Makeup Advisor

**SK!N** is a skincare and makeup app that helps users make informed decisions by analyzing product ingredients and recommending personalized routines based on their skin type and concerns. By encouraging transparency and routine sharing, the app promotes cleaner and healthier skin.

## Core Features

A central feature is the **Ingredient Scanner and Analyzer**, where users can scan or search for skincare and makeup products. The app fetches ingredient data using APIs and evaluates each component on a scale from harmful to beneficial. Users can also **upload their skincare routines** and receive helpful suggestions from others, enhancing personalization and community learning. Based on skin type—such as oily, dry, or sensitive—users are offered **customized product recommendations**. A dedicated **tutorial section** allows users to follow step-by-step guides and routines shared by peers.

## Target Audience

SK!N is built for users who value transparency in skincare and makeup. Whether they are new to skincare or enthusiasts refining their regimen, users benefit from ingredient awareness, personalized suggestions, and collaborative learning through shared routines.

## Technical Requirements

The app will use **Google Firebase** to store user profiles, products, routines, and feedback, with full CRUD functionality. It will integrate the **Skincare Ingredient Analysis API**, the **Makeup API** for cosmetic product data, and **UPCItemDB** for barcode-based product lookup. These APIs will be accessed using **Retrofit** or **OkHttp** for efficient and secure HTTP communication.

To streamline product entry, the app will leverage the phone's **camera sensor** to scan barcodes and capture ingredient labels using **OCR**. Users can also take photos or record short videos for their routines. An optional **speech-to-text** feature allows for hands-free search input.

## Multi-Device Optimization

The app will be tested on both a **Google Pixel 6** and a **Samsung Galaxy Tab A7** to ensure responsive UI across smartphone and tablet interfaces. The UI will be developed using **Jetpack Compose**, following Material Design guidelines and supporting accessibility through dark mode, scalable text, high contrast, and screen reader compatibility.