Real-Time Virtual Try-On Mobile Application: Functionality Description

Introduction
The Virtual Try-On Mobile Application allows users to try on virtual products (Clothing, Hair & Hairstyles/Haircuts, Footwear, and Accessories) using images from their gallery, web searches, and products posted by businesses/affiliates. This document outlines the requirements and features for individual users and businesses/affiliates.

Phases

Phase 1: Basic Functionality (MVP)
- User account creation and authentication (including SSO options)
- Virtual try-on functionality for gallery images, web-sourced images, and business-posted products
- Social sharing features
- Business/affiliate account management and product posting
- Basic analytics for businesses/affiliates
- Notification system for new products and try-ons

Phase 2: Enhanced Features
- Product variation try-ons (colors, sizes, etc.)
- Virtual shops for businesses with in-app payment processing
- E-commerce integration
- Affiliate marketing platform integration
- Enhanced marketing features for businesses and affiliates
- Advanced security measures for user data and transactions

User Types
- Individual Users: Fashion-conscious individuals interested in virtual try-ons
- Businesses/Affiliates: Brands, retailers, and affiliates showcasing and promoting products

Features

For Individual Users:
- Account creation and management (including SSO options)
- Image upload and virtual try-on
- Web image search and try-on

- An "Explore page" for discovering products
- Social sharing of try-on experiences
- User profile management
- Notifications for new products
- Like/Favorite products and try-ons
- Comment on try-ons
- Follow/Unfollow users and businesses
- Search functionality with history
- User Preferences and settings

For Businesses/Affiliates:
- Account creation and management
- Product uploading and management
- Analytics dashboard
- Customer engagement tools
- Virtual shop creation (Phase 2)

Subscription Plans for Businesses/Affiliates
- Basic Plan: Limited product listings, basic analytics
- Premium Plan: Unlimited listings, advanced analytics, enhanced promotion
- Enterprise Plan: Customizable solutions, API access, dedicated support, advanced integrations

Additional Features
- Password reset functionality
- Session management
- Two-factor authentication
- Content moderation and reporting system
- Tagging system for products and try-ons
- User review and rating system for products

Security and Privacy
- Robust user authentication (including SSO)
- Secure data storage and transmission
- Privacy settings for user profiles and content
- Compliance with data protection regulations

Performance Considerations

- Optimized database queries for fast content delivery

- Efficient image processing for virtual try-ons

- Scalable architecture to handle user growth

This document serves as a comprehensive guide for the development and evolution of the Virtual Try-On Mobile Application, covering both immediate (Phase 1) and future (Phase 2) functionalities.