**README – SkillSwap+ Application**

**1. Project Title**

**SkillSwap+** – A Simple Skill Sharing Mobile App

**2. Introduction**

SkillSwap+ is a mobile application built using **React Native** and **Expo**.  
The app allows users to log in, view skill posts, search for specific skills, like their favorite posts, create new skill offerings, and view their profile.  
This project demonstrates the use of modern mobile UI components, navigation, and state management for a smooth user experience.

**3. Objectives**

* Provide a **simple platform** for users to share and learn skills.
* Practice **React Native development** with multiple screens and navigation.
* Learn about **component hierarchy** and **state management** in mobile apps.
* Build a **presentable project** that demonstrates knowledge of SDA (Software Design & Architecture).

**4. Features**

1. **Login Screen**
   * Email and Password fields
   * Simple dummy login validation
2. **Home Screen**
   * Displays a list of skill posts
   * Includes a search bar for filtering posts
   * Allows users to like posts
3. **Create Post Screen**
   * Users can add a new skill offering
   * Title and Description fields
4. **Profile Screen**
   * Displays user name, bio, and skills as chips
   * Shows average rating

**5. Technologies Used**

* **React Native** – Framework for building cross-platform apps
* **Expo** – Development environment for React Native
* **React Navigation** – Screen navigation and stack management
* **Expo LinearGradient** – For gradient background designs
* **Ionicons** – For icons like Like button and Floating Action Button

**6. Project Structure**

* **App.js** → Main entry point and navigation setup
* **LoginScreen** → Handles user login
* **HomeScreen** → Displays skill feed, search bar, and like feature
* **CreatePostScreen** → Allows posting new skill offers
* **ProfileScreen** → Shows user profile and skills

**7. UML Diagram (Class Hierarchy)**

* **App**
  + **LoginScreen**
  + **HomeScreen**
    - **SkillCard** (used for each skill)
  + **CreatePostScreen**
  + **ProfileScreen**

This hierarchy shows that the App component manages navigation between different screens.  
The HomeScreen uses multiple SkillCard components to display skill data.

**8. How to Run the Project**

1. Install **Node.js** and **Expo CLI** on your computer.
2. Copy all project files into a folder.
3. Open terminal in that folder and run:
4. npm install
5. npx expo start
6. Scan the QR code using **Expo Go App** (Android/iOS) or press w to open in browser.

**9. Future Enhancements**

* Add real authentication with Firebase or custom backend
* Add comments and ratings for skill posts
* Save posts persistently in a database
* Add profile picture upload and user settings

**10. Author**

**Your Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
**Course:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
**Submitted To:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
**Date:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

