SkillSwap – Software Requirements Specification (SRS)

1. Introduction

SkillSwap is a mobile app where users can exchange skills (e.g., cooking, coding, painting). Users can register, create offers, book sessions, and leave reviews. Admin ensures quality by moderating users and offers.

2. System Overview

- Actors:
- User: Registers, logs in, creates offers, books sessions, and reviews others.
- Admin: Manages accounts and deletes inappropriate offers.

- Main Features:
- User Registration & Login
- Profile & Skill Management
- Browse & Search Skills
- Book/Cancel Sessions
- Review & Rating
- Admin Moderation

3. Functional Requirements

1. Users can register/login and manage profiles.
2. Users can create, update, delete, and browse skill offers.
3. Users can book/cancel sessions with others.
4. Users can leave reviews/ratings after sessions.
5. Admin can suspend accounts and delete offers.

4. Non-Functional Requirements

- Usability: Simple and user-friendly UI.
- Performance: Quick loading of skill listings.
- Security: Encrypted password storage.
- Scalability: Supports large user base.

5. UML Diagrams

- Use Case Diagram – shows user/admin interactions.
- Class Diagram – defines system entities & relationships.

6. Prototype (MVP)

- Frontend: React Native (Expo).
- Demo Features: Login, skill listing, booking, and reviews.

Summary

SkillSwap enables peer-to-peer learning through skill sharing, session booking, and reviewing, with admin moderation for trust and safety.