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Software Requirements Specification (SRS)

### ****1. Introduction****

**1.1 Purpose**  
SkillSwap is a React Native mobile app that allows university students to swap skills related to **Internet technologies** Web Development, Cybersecurity, Cloud Computing, Databases, and AI/ML.

**1.2 Scope**

* Users log in with email/password.
* Home screen shows IT related skill offers.
* Users can **create new skill posts**.
* Profile shows skills, bio, and rating.
* Data is dummy/local (no backend).
* Gradient UI for professional appearance.

**1.3 Definitions**

* **Tutor:** user offering a skill.
* **Learner:** user booking a skill.
* **Offer:** skill posted by a user.
* **Session:** booking of a skill offer.

### ****2. Overall Description****

**2.1 User Roles**

* **Student:** can log in, see offers, create posts, and view profile.
* **Admin future:** moderate posts and accounts.

**2.2 User Stories**

* As a learner, I want to see IT skill offers on the home screen.
* As a student, I want to post my own IT skill offers.
* As a student, I want to view my profile with skills and ratings.

### ****3. Functional Requirements (FR)****

* **FR1:** User logs in with email/password.
* **FR2:** User views skill offers on Home screen.
* **FR3:** User can tap an offer to see details.
* **FR4:** User can create a new skill offer.
* **FR5:** New offers appear on Home feed.
* **FR6:** Profile displays user’s name, skills, bio, and rating.

### ****4. Non-Functional Requirements (NFR)****

* **UI/Usability:** gradient backgrounds, consistent colors.
* **Performance:** app loads under 2 seconds in Snack/Expo.
* **Reliability:** dummy data stored in memory; stable navigation.
* **Scalability:** can add backend for sessions & ratings.

### ****5. Database****

Right now dummy data is in code. Future backend would store:

* **Users:** id, name, email, bio, skills, avgRating
* **Offers:** id, title, description, createdBy
* **Sessions:** id, offerId, tutorId, learnerId
* **Reviews:** id, fromUser, toUser, rating, comment

### ****6. Acceptance Criteria (MVP)****

* Login works with dummy credentials.
* Home screen displays IT related offers.
* User can add new offers.
* Profile shows skills, bio, and rating.