**SkillSwap Mobile App – Software Requirements Specification (SRS)**

**1*. Introduction***

***Purpose***

*This document defines the requirements for the SkillSwap Mobile Application. The purpose of this app is to let students exchange skills with each other. For example, one student can help in Data Structures while the other designs a poster in return.*

*The current MVP version includes three main screens:*

* *Login (existing users can log in)*
* *Signup (new users can register)*
* *Profile (view account and logout)*

***Scope***

*The app is built in React Native and designed for both Android & iOS.*

*It provides:*

***User Authentication (Login & Signup)***

*Profile Management (email shown, logout option)*

*A clean UI with blue & white theme, rounded buttons, and circular quick-action icons.*

* *Out of scope in MVP:*
* *Real backend database*
* *Payments*
* *Chat or video calling*

***Definitions, Acronyms, Abbreviations***

* ***MVP*** *– Minimum Viable Product*
* ***UI*** *– User Interface*
* ***Tutor*** *– A student offering a skill*
* ***Learner*** *– A student seeking a skill*
* ***Skillswap*** *– Exchange of skills without money*

***Overall Description***

***User Roles***

* *Learner/Tutor (Student)*
* *Can register/login*
* *Can view their profile*
* *Can logout*

***Admin (future)***

*Will manage users, remove inappropriate content*

***User Stories***

* *As a learner, I want to log in easily so that I can access the app.*
* *As a new student, I want to sign up quickly so I can start using SkillSwap.*
* *As a student, I want to see my profile info and logout whenever I want.*

*3.* ***Functional Requirements***

***FR1****: System shall allow user to register with email & password.*

***FR2:*** *System shall allow user to log in securely.*

***FR3****: System shall display profile information (email).*

***FR4****: System shall allow user to log out.*

***FR5****: System shall show three circular quickaction buttons for future features.*

*4.* ***Non-Functional Requirements***

***Usability****: UI must be clean, simple, and consistent (blue & white theme).*

***Performance****: Screens should load in < 2 seconds.*

***Security****: Password must be entered securely (hidden input).*

***Compatibility****: Runs on both Android & iOS using React Native.*

***5. Database (For MVP – Dummy Only)***

*Currently no real database. Fake state management is used (useState).*

*In future, a NoSQL (MongoDB) or Firebase backend can be connected.*

*6.* ***UML Diagrams (Placeholders)***

***Use Case Diagram:*** *Shows student logging in, signing up, and viewing profile.*

***Class Diagram:*** *Classes – User, Auth, Profile.*

*(Mam ko diagram bana ke attach karna hoga, draw.io ya StarUML se ban sakta hai)*

*7****. MVP Frontend (React Native)***

***Screens included:***

*1.* ***Login Screen –*** *Email + Password input, Login button, navigate to Signup.*

*2.* ***Signup Screen*** *– Email + Password input, Sign up button, navigate to Login.*

*3.* ***Profile Screen*** *– Displays logged-in email, Logout button.*

***UI Theme****:*

*Background: light blue (#F0F8FF)*

*Headings: bold & large font*

*Buttons: circular and rectangular (blue/white)*

***Conclusion***

*This SRS defines the MVP SkillSwap app. Current version only demonstrates login, signup, and profile handling with attractive UI. Future versions will include full skill listing, booking system, and reviews.*