

Software Specification Requirements Document

1. Introduction

1.1 Purpose

The purpose of this document is to specify the functional and non-functional requirements for **SkillUpConnect**, a web-based mentorship and learning platform. The platform connects learners and mentors for skill development through personalized live sessions, structured courses, and industry-relevant soft-skill training.

1.2 Scope

SkillUpConnect is designed as a mentorship and learning platform targeted especially towards **students and professionals from rural areas in Sri Lanka**. It provides affordable mentor-led live sessions, free soft-skill courses, and industry-focused training. Core features include profile creation, session scheduling, payment processing, reviews, certifications, and progress tracking.

1.3 Target Users

- **Learners:** Students and professionals from rural Sri Lanka who need affordable, accessible, and reliable mentoring and training opportunities.
- **Mentors:** Industry experts and professionals who deliver structured courses, live mentoring sessions, and skill development guidance.
- **Admins:** Platform managers who verify mentors, moderate content, handle disputes, and ensure platform reliability.

1.4 Definitions, Acronyms, and Abbreviations

Term	Definition
MVP	Minimum Viable Product
UI	User Interface

API	Application Programming Interface

1.5 References

- IEEE Standards
- Agile Principles

1.6 Overview

This SRS defines the system's functional and non-functional requirements, system interfaces, performance expectations, design constraints, and operational environment.

2. Overall Description

2.1 Product Perspective

SkillUpConnect will be developed as a standalone **web application** (future support for mobile planned). It is designed to solve the problem of learners in rural areas struggling to find personalized, affordable, and guided learning opportunities.

2.2 Product Functions

Its a summary of the major capabilities of the project, not detailed user stories or technical tasks.

Function	Meaning
User registration & login	Allows users to sign up, log in, and access their accounts
Profile customization	Lets users edit their bios, add skills/interests.
	Learners can rate/review mentors after a session.

Booking 1:1 live mentoring sessions	Schedule live learning sessions between learner and mentor
Course browsing, enrollment, and progress tracking	Email or in-app reminders for session times, new messages.
Payments and subscription handling	Users can pay for sessions where mentors can receive payment while users also being able to purchase subscription models.
Feedback and review systems	Receiving feedback from the learners for the sessions conducted.

2.3 Operating Environment

- **Frontend:** React.js (responsive design)
- **Backend:** Node.js / Python
- **Database:** Microsoft SQL Server

2.4 Design & Implementation Constraints

- Secure handling of payments
- Adherence to data protection & privacy laws (e.g., GDPR, local regulations)
- Subscription costs must remain affordable for rural learners

2.5 Assumptions and Dependencies

- Users will have at least basic internet access and digital literacy
- Dependent on third-party APIs (payment, email, video hosting)
- Initial mentor onboarding will require admin verification

3.0 Specific Requirements

3.1 Functional Requirements

Learners should be able to :

- Register/login with credentials
- Browse and filter courses by category, skill, or price
- Enroll in **free soft-skill courses** (e.g., communication, teamwork, interview prep)

- Purchase affordable mentor-led courses
- Select mentors and book **1:1 live mentoring sessions**
- Manage subscriptions (monthly/annual)
- Track progress (completed vs ongoing courses)
- Download certifications upon completion
- Manage account settings and preferences
- Provide ratings/reviews for mentors
- Receive notifications/reminders for sessions and updates

Mentors :

- Register/login to the system
- Create and manage courses (video or live)
- Set availability for 1:1 mentoring
- Request approval for new skill areas
- Manage learner enrollments and interactions
- Receive payments securely
- View and respond to learner feedback

Admin :

- Verify and approve mentors
- Manage platform content (courses, categories)
- Oversee transactions and financial reporting
- Moderate reviews and handle disputes
- Monitor system performance and security

3.2 Non-Functional Requirements

- **Availability:** 99% uptime guaranteed
- **Performance:** Response time ≤ 2 seconds for 95% of user actions
- **Scalability:** Support up to 10,000 users concurrently
- **Security:** End-to-end encryption for sensitive data and PCI DSS-compliant payments
- **Accessibility:** Multi-language support (Sinhala, Tamil, English); simple UI for non-tech-savvy users
- **Low Bandwidth Optimization:** Optimized video streaming and offline access for rural learners with unstable internet

- **Usability:** Clean, mobile-first design with intuitive navigation

3.3 Interface Requirements

3.1 User Interface

- **Learner Dashboard:** Enrolled courses, upcoming sessions, progress tracker
- **Mentor Dashboard:** Session scheduling, course management, earnings view
- **Admin Dashboard:** Platform monitoring, user management, financial reports

4. Other Requirements

- Certifications are non-academic but industry-aligned
- Early-stage focus is on **affordable mentorship + free soft-skill courses**
- Roadmap includes mobile app, AI chatbot for learner support, and community forums