

Skill Swap: Peer-to-Peer Skill Exchange Platform

Team: Arpita Boben(2401420004)

Manya Yadav(2401420012)

Parth Goyal(2401420028)

Mentor: Dr. Monika Khatkar

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Introduction to Skill Swap

Purpose

To facilitate an affordable, structured and accessible platform where users can exchange skills easily.

Benefits

Encourages self development and community building through peer learning and reduces dependency on expensive educational institutions

Users

- >Students looking for practical, real world skills.
- >Professionals aiming to upskill or share their expertise.

Core Value

Building a trustworthy, verified community where knowledge sharing is incentivized and recognized and promoting niche, emerging skills accessible to everyone.

Problem Statement

High Learning Costs for professional courses

No dedicated platform for niche skills exchange

Trust and credibility issues with online tutors

Underutilization of peer knowledge

Limited access to rare or emerging skills

Why Skill Swap is Essential

Affordability & Accessibility

Reduce barriers to skill acquisition

Trust Building

Verification through tutor ratings

Niche Skill Support

Platform for emerging and hobbyist skills

Utilizing Peer Knowledge

Encourage informal knowledge exchange

Methodology Overview



1

User Registration

Choose Tutor, Student, or Both

2

Skill Listing

Users list skills to teach or learn

3

Session & Rating

Students enroll and rate after sessions

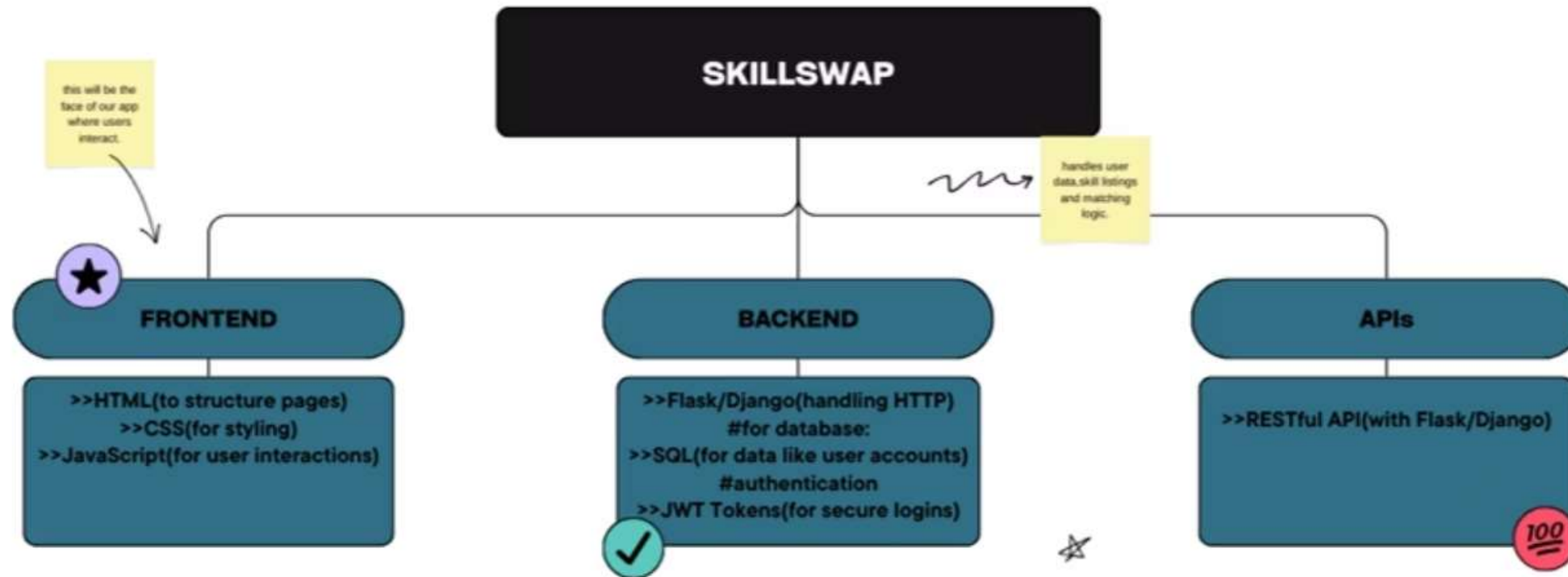
4

Credit & Verification

High-credit tutors verified for trust

Methodology Flowchart

METHODOLOGY



Front-End Development

Technologies Used

- HTML
- CSS
- JavaScript

Design Focus

Responsive, mobile-friendly layouts

Usability

Minimalist, easy navigation

Back-End Development

Server-side logic with Node.js or Python

Database: MySQL or MongoDB for user data & credits

Secure data handling and transaction processing



UX/UI Design

Tools Used

Figma, Adobe XD

Design Principles

Clean, clutter-free interface

User Journey

Easy onboarding, streamlined dashboard

Engagement

Accessible features to encourage use



Core Features

Peer Skill Listing & Matching

Connect tutors and learners

Credit System

Fair tutor evaluation

Tutor Verification

Based on student ratings

Dynamic Ranking

Highlight top contributors

Welcome to SkillSwap Connect

SkillSwap Connect is a vibrant platform designed to bridge the gap between students eager to learn and teachers passionate about sharing their knowledge. We foster a collaborative environment where free knowledge sharing is not just a concept but a reality. Whether you're a student looking to

Platform Demonstration

Sign Up

Create user profile

Browse Skills

Explore available courses

Enroll

Join learning sessions

Rate Tutor

Provide feedback to build trust

Profile Growth

Earn credits and verification

Website Functioning

Login

Enter your credentials to access your account

Full Name

Username

Password

Role

Select your role

Areas of Interest:

☐ JavaScript

☐ Python

☐ Java

☐ C++

☐ C#

☐ TypeScript

☐ React

☐ Node.js

☐ Angular

☐ Vue.js

☐ HTML/CSS

☐ Data Structures

☐ Algorithms

☐ Databases

☐ Cloud Computing

Log In

This is the login portal for our website. Here you can enter your details and choose to be a student or teacher.



This is the user dashboard for the users joined as a teacher. User can see their ratings and add new interests.



This is the search option for the users joined as students. Here you will find the details of the teachers available.

User Dashboard

Welcome, abed! This is your profile.

Areas of Interest:

TypeScript

Add New Interest

Add

Ratings:

0

Log Out

Search

Select Subjects:

☐ Math

☐ Science

☐ English

☐ History

☐ Computer Science

Search

Search Results:

John Doe - Math

Connect

Expected Impact



**Broaden access
to affordable
education.**



**Increase
diversity of skills
taught and
learned.**



**Build a
trustworthy, peer-
driven learning
community.**



**Incentivize high-
quality teaching
and active
participation.**



Challenges Addressed

Lack of Centralized Platform

Skill Swap provides a single, verified platform.

Credibility Concerns

Creates a fair and inclusive environment.

1

2

High Costs & Limited Availability

Overcomes traditional barriers to skill sharing.

3

Learnings & Future Scope



Learnings

Project development, teamwork, tech-stack application.



Future Plans

- Launch mobile application.
- Integrate AI-driven tutor recommendations.
- Introduce live workshops and webinars within the platform.



References

Reddit (UI and workflow ideas)

Google Chrome (Research sources)

Instagram (Platform engagement strategies)