



HACK YOUR PATH 7.0

Organized by HITAM Hackathon Club

Team Details

- a. Team name:Code Smiths
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Problem Statement

SkillSwap



In today's competitive job market, continuous skill development is essential, yet millions face financial and geographic barriers to quality education. Traditional courses cost ₹10,000–₹1,00,000+, and professional certifications average ₹50,000+, making them inaccessible for many. Nearly 68% of Indian youth lack access to reliable skill programs. At the same time, 40% of skilled informal workers possess valuable expertise but cannot monetize it without formal credentials. Existing platforms are expensive and one-directional, limiting peer-to-peer learning. The core challenge is to democratize education—making skill development affordable and enabling individuals to earn by teaching their expertise without formal qualifications.

Proposed Solution



SkillSwap is a peer-to-peer, time-banking education platform that replaces money with time as currency. In this ecosystem, **10 min of teaching equals 1 time credit**. Users earn credits by teaching skills and spend credits to learn from others—creating a self-sustaining skill exchange model with zero financial barriers. New users receive starter credits to begin instantly.

The platform features a skill marketplace with 50+ categories, smart filters, and verified profiles built through peer reviews, portfolios, and endorsements—no formal credentials required. Integrated WebRTC enables seamless video sessions, scheduling, reminders, and recordings, supporting both online and in-person learning. Structured learning pathways track progress and award digital certificates.

Gamification elements like badges and leaderboards boost engagement, while local discovery connects nearby learners and teachers.

SkillSwap democratizes education, enables skill monetization, and reduces inequality—aiming to onboard 10,000+ users and facilitate 50,000+ learning hours in Year 1.

Architecture Diagram





Technologies/Tools Used

Frontend

Next.js (React) – Full-stack framework (frontend + backend together)

TypeScript – Better code safety

Tailwind CSS – Clean, responsive UI design

Backend

Next.js API Routes – Handle sessions, credits, bookings

PostgreSQL – Store users, skills, credits

Real-Time (For MVP Video + Chat)

WebRTC – Video calls

Socket.io – Chat & notifications

Deployment

Vercel – Deploy full app easily



Target Audience/Market

Learners (Skill Seekers)

Youth & Students (18–30) – Upskilling beyond academics, job preparation

Working Professionals (25–45) – Career switch, skill diversification, hobbies

Underserved Communities – Rural, low-income individuals, women, informal workers

Teachers (Skill Providers)

Skilled Individuals (No Formal Credentials) – Self-taught experts, hobbyists, retirees, homemakers

Informal Sector Workers – Artisans, craftspeople, local skill experts

Students & Part-time Tutors – Peer educators, mentors, subject toppers

Secondary Audience

Organizations & NGOs – Skill development initiatives

Corporate CSR & Govt Programs – Community upskilling

Local & Online Communities – Workshops & cultural skill exchange



Thank You

We appreciate your time

Please add team lead contact information
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