



CODECELL-CMPN,VESIT

SYRUS HACKATHON 2025

Category Code: C1 (Open Innovation)


Problem Statement Title: EduTrade - Swap Skills, Gain Expertise

Team Name: Caffeine Coder

Institute Name: Vivekanand Education Society's Institute of Technology



Idea / Approach details (& implemented features)



Problem Statement: Many individuals struggle with limited access to quality education, skills mismatching job market demands, financial constraints, and lack of professional networks, leading to unequal job opportunities.

Solution Overview: EduTrade is an AI-powered platform that bridges the gap between learning and employment. It provides personalized skill assessments, free learning resources, AI-driven job matching, a Skill Swap Marketplace, and instant resume generation to help users secure sustainable careers.

User Roles & Features:

- **Learner:** Skill swap, job applications, study groups, AI recommendations.
- **Mentor:** Skill validation, learning sessions, career guidance
- **Employer:** Job postings, candidate reviews, interviews.



Innovation (Showstopper)

1. Skill Swap Marketplace

- Users exchange skills (e.g., coding for UI/UX) using a time-based token system.
- AI or manual matching ensures fair and relevant learning exchanges.

2. Job Market Integration

- AI-driven smart job matching connects users with relevant opportunities.
- Includes resume building, interview prep, and direct recruitment.

3. Instant AI Resume & Portfolio Generator

- AI creates professional resumes, cover letters, and project portfolios.
- Real-time updates based on new certifications and work experience.

4. Gamified Skill Challenges & Hackathons

- Daily challenges, leaderboards, and digital badges for skill mastery.
- Community-driven hackathons to foster engagement and innovation.

5. Personalized Study Groups & Accountability Buddies

- AI matches users with peers and mentors based on learning goals.
- Virtual study groups with progress tracking for motivation.

6. Instant Skill Endorsements from Mentors

- Industry experts validate skills based on projects and performance.
- Enhances credibility, boosting job and freelancing prospects.



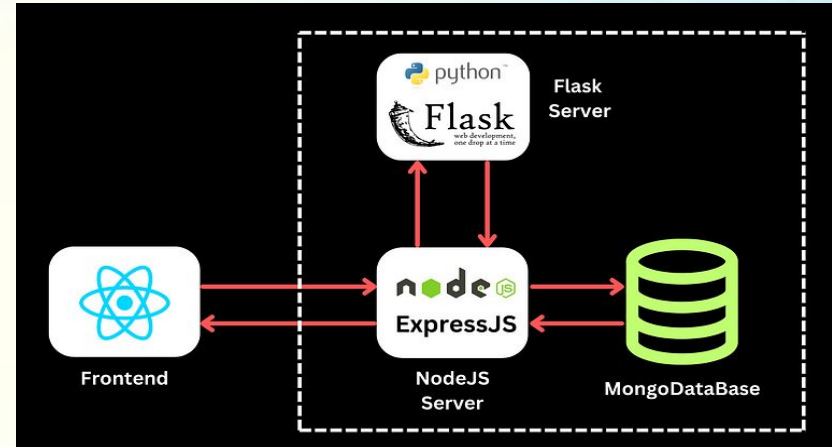
Tech Stack

Frontend: React.js

Backend: Node.js, Flask

Database: MongoDB

Machine Learning: Python



Prototype

Welcome back,
Continue your learning journey

Find a Mentor



Learning Progress
75%
React Advanced Course



Active Mentors
2
Weekly sessions



Skills Mastered
5
Verified by mentors

Current Learning Path

Update Goals

Frontend Development
React & TypeScript Mastery

Backend Development
Node.js & Express

Upcoming Sessions

Book Session



React Advanced Patterns
with John Doe • Today 2:00 PM



Career Strategy Session
with Jane Smith • Tomorrow 11:00 AM

Recommended Job Matches

View All

Senior Frontend Developer
TechCorp Inc.

95% Match

React TypeScript Next.js

Full Stack Developer
InnovateLabs

98% Match

Node.js React MongoDB

Learner Dashboard

Welcome back,

You have 3 pending mentorship requests

View Requests



Active Mentees
12
+2 this month



Sessions This Week
5
2 hours today



Open Requests
3
Pending review



Skills Validated
28
This month

Today's Sessions

View All



React Advanced Concepts
with Sarah Johnson
3:00 PM - 4:00 PM

Join



Career Guidance Session
with Michael Chen
5:00 PM - 6:00 PM

Join

Skill Validation Requests

View All

JavaScript - Advanced
Requested by Alex Smith

Approve

Decline

ES6+ Async/Await Design Patterns

React.js - Intermediate
Requested by Emma Davis

Approve

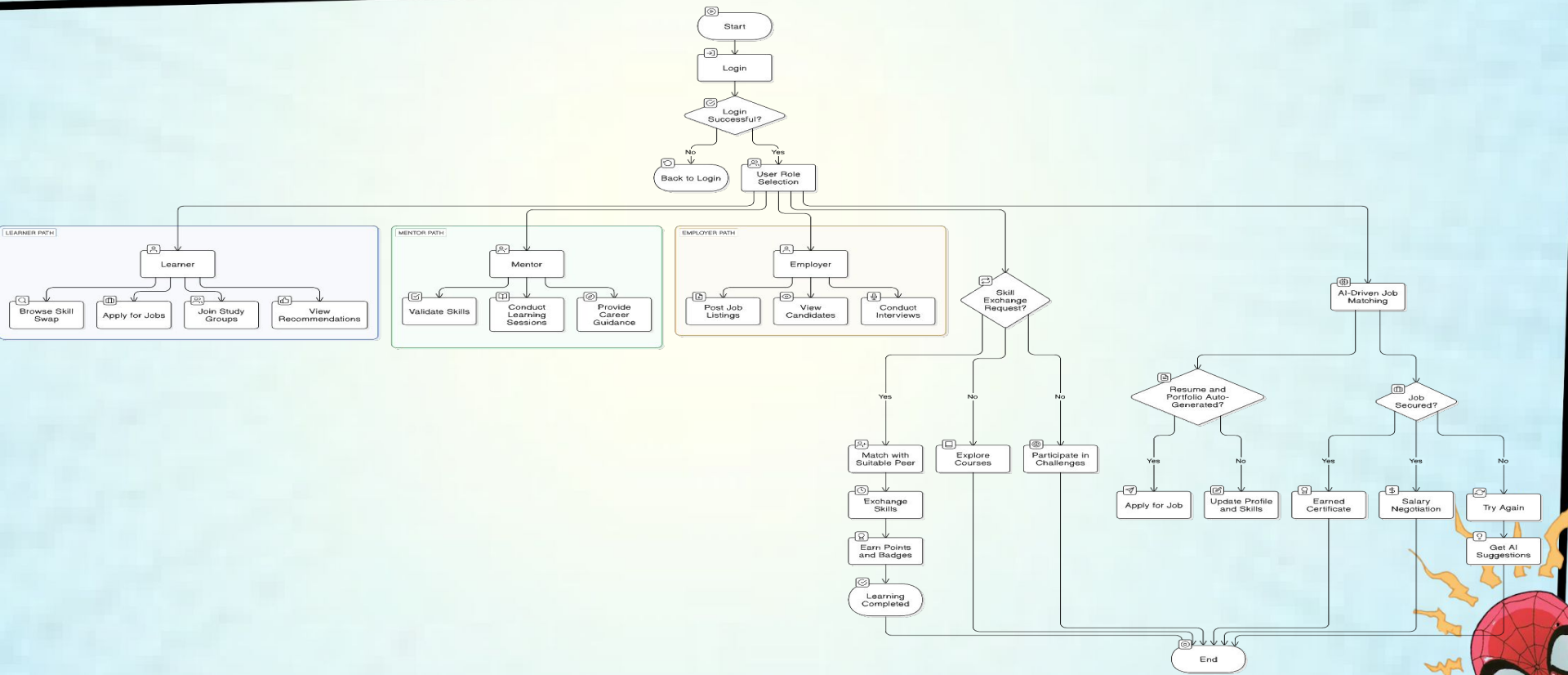
Decline

Hooks Context Redux

Mentor Dashboard



Use Case Diagram



Future Objective

1. Decentralized Learning & Skill Verification

- a. Blockchain-based certificates for verified skill endorsements.
- b. Decentralized skill records to ensure credibility across platforms.

2. Metaverse & VR-Based Learning Modules

- a. Immersive learning through VR-based training simulations.
- b. Virtual skill swap rooms for hands-on learning experiences.

3. Smart Contracts for Skill Exchange & Payments

- a. Secure and automated transactions using blockchain technology.
- b. Ensures fair exchanges and fraud prevention in freelancing & mentorship.

4. Automated AI Job & Internship Applications

- a. AI auto-applies to relevant jobs and internships based on user skills.
- b. Smart tracking of application status and interview scheduling.

