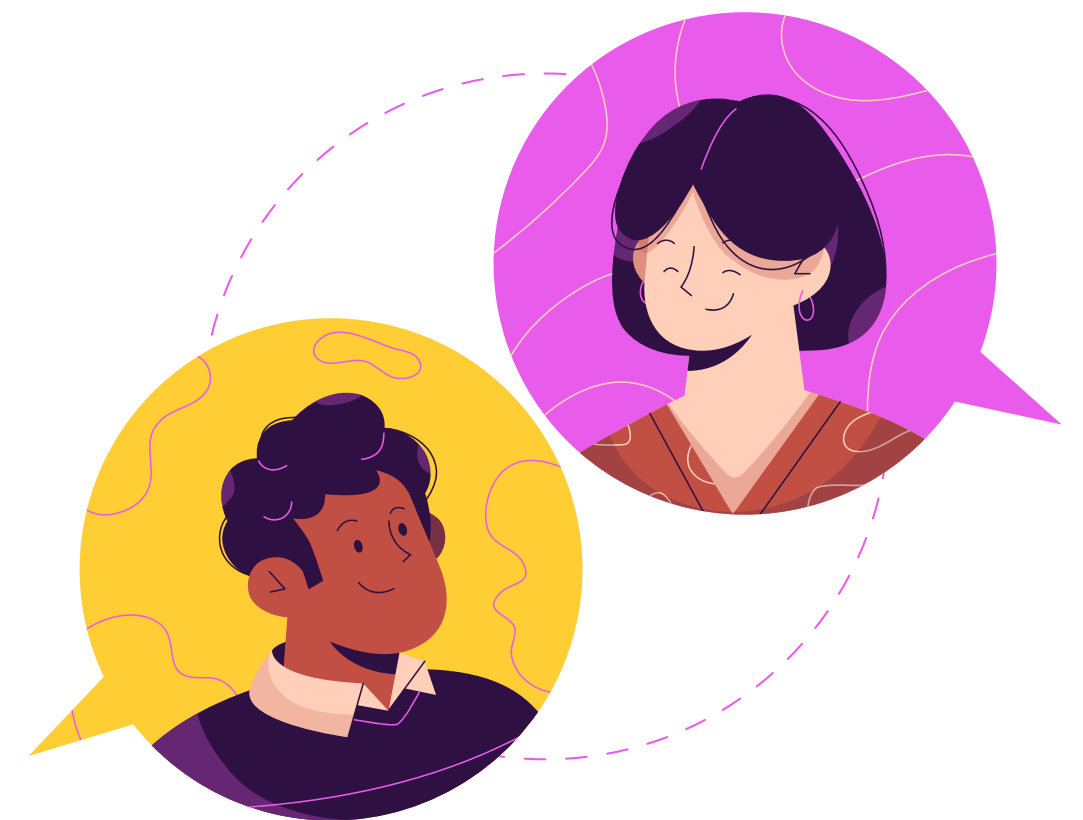# COD-ERA

Problem Statement

Smart CODING Platform

Develop a gamified coding platform with a personalized recommendation system to enhance learning through theory, practice, community engagement, and AI-driven assistance.
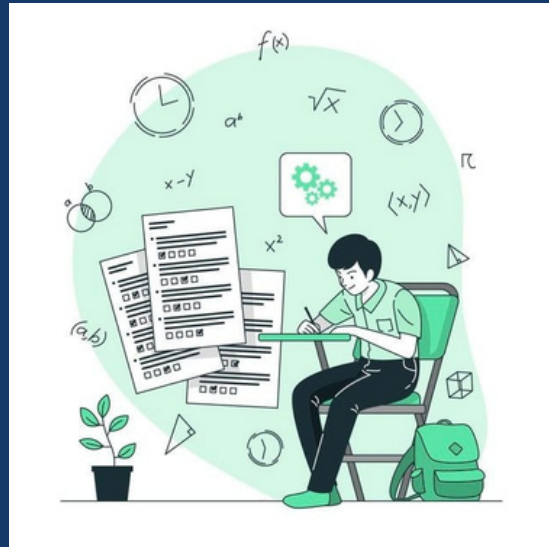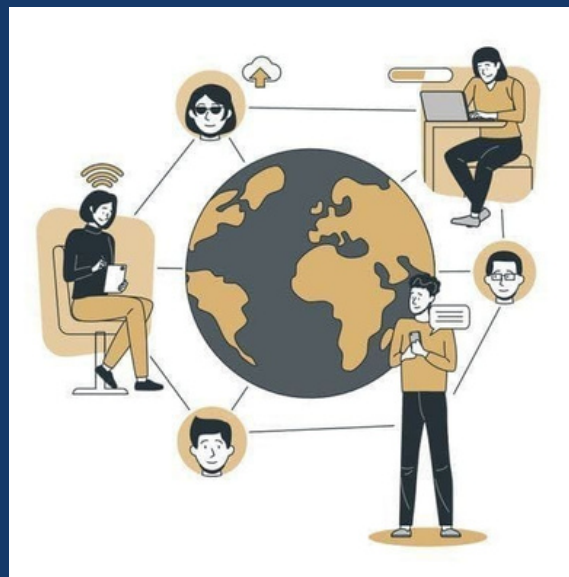
Innovation

1 Recommendation System

2 Gamification & Progress Tracking

3 Student Forum

4 Built-in IDE for Problem Solving

5 Student-Driven Article Writing

Idea
Presentation

1. Personalized Recommendation System – AI-driven suggestions for learning materials, coding problems, and articles based on user progress.

2. Gamification & Progress Tracking – Badges, leaderboards, and rewards to enhance engagement and motivation.

3. Built-in IDE for Problem Solving – Interactive coding environment with real-time execution, hints, and instant feedback.

4. Community & AI-Powered Assistance – Peer discussions, AI chatbot support, and mentorship for collaborative learning.

5. Student-Driven Article Writing – A platform for students to write, publish, and share technical articles and insights.

Tech **Stack**

The languages used are :-

▶ Frontend :React.js

▶ Backend: Express.js

▶ AI :Python and flask

▶ Database: Firebase

Impact

- Equal access to quality education

- Better Learning: Reinforced learning, personalized pace, improved study.

- Potentially lower education costs.

- New tech jobs and industry growth.

- practical problem solving.

- Promotes healthy competition among students.

Scalability

Online promotion :
- Create engaging content (blogs, videos).
- Use targeted social media and online ads.

Partnerships:
- Collaborate with colleges, online platforms
- Partner with educational influencers.

Features	CODE-ERA	CODDEX
Recommendation System	✓	✓
Student-Driven Article Writing	✓	✗
Cost Affordability	✓	✓
Community	✓	✓
Gamification & Progress Tracking	✓	✓

Thank you