SkillHive – A Peer Learning & Micro-Course Platform

Project Overview:

SkillHive is a full-stack web application where students and professionals can create and enroll in short peer-led courses or learning sessions. It includes features like course creation, enrollment, progress tracking, discussion forums, and reviews.

Objectives for Interns:

- Learn the entire stack: frontend, backend, database, deployment
- Build a real-world application using modern technologies

Recommended Tech Stack:

- Frontend: React.js (or Next.js), Tailwind CSS / Bootstrap
- Backend: Node.js + Express (or Django for Python alternative)
- Database: MongoDB (or PostgreSQL for relational model)
- Authentication: JWT + OAuth2 (Google login)
- Storage: Cloudinary / Firebase Storage (for media upload)
- Deployment: Vercel (Frontend) + Render/Heroku (Backend) + MongoDB Atlas

Planning & Environment Setup

- Project introduction and repo setup on GitHub
- Finalize tech stack and install tools (VS Code, Postman, Git)
- Create UI wireframes (Figma) and ER diagram
- Set up frontend and backend boilerplates
- Configure basic routing (React Router / Express API routes)

Authentication & User Roles

- Implement user registration & login (JWT + Google OAuth)
- Create profile page (name, bio, skills)
- Role-based access: Learner, Instructor, Admin

Course Management System

- Instructors can create/update/delete a course (title, description, image, video)
- Learners can browse/search/filter courses
- Admin approval workflow for new courses

Enrollment & Progress Tracking

- Implement course enrollment feature
- Learner dashboard showing enrolled courses & progress
- Video completion tracker (simple checkbox or video watch detection)

Discussions & Reviews

- Add Q&A forum for each course (threaded discussion)
- Course rating and review system (only for enrolled learners)
- Notification system for new replies or updates

Testing, Deployment & Documentation

- Functional testing and UI bug fixes
- Deploy frontend and backend
- Prepare user and developer documentation
- Final project presentation and code walkthrough

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Deliverables:

- Live deployed website

- GitHub repository with code and README

- Figma design and database schema

- Demo video or presentation

- Weekly reports (optional)

Bonus Features (Optional):

- Certificate generation for course completion (PDF)

- Admin dashboard with analytics

- Search with tags, categories, and difficulty level

- Progressive Web App (PWA) support

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