Hackathon Topic7

🚀 Hackathon Challenge: Build a Smart Learning & Development Platform

🧩 Objective

Design and develop a **lightweight internal Learning & Development (L&D) platform** that empowers teams to share knowledge, track learning progress, and grow together.
Your solution should enable employees to **learn at their own pace**, and help admins **track, recommend, and manage**content and progress across the organization.

📌 Core Functional Requirements

1. 🎓 Course Management
   - **Support for videos, documents, quizzes (self-paced content)**
   - **Allow internal experts to create, edit, and publish courses**
2. 📋 Course Assignment & Tracking
   - **Assign courses to users or groups**
   - **Track user progress, enrolled courses, upcoming sessions**
3. 📈 Smart Suggestions
   - **Recommend courses based on user's role, past activity, or defined learning goals**
4. 📊 Dashboard & Analytics
   - **User Dashboard: Courses enrolled, progress, completions**
   - **Admin Dashboard: Total trainings conducted, courses created, active learners**

✅ Bonus Features (Optional but Valued)

- 🎯 Role-based access: Admin, Instructor, Learner
- 📅 Session scheduler and reminders
- 🧠 AI-powered suggestions for content creation or learning path
- 🏅 Gamification: Badges, streaks, or leaderboards
- 📱 Mobile-friendly design

Example Use Cases

- An engineer can find a "**Docker Basics**" course created by a DevOps lead.
- The HR team can assign "**Compliance Training**" to new hires and track completion.
- The dashboard shows **how many people completed Leadership 101** last quarter.

🛠 Tech Stack Suggestions (Not Mandatory)

- **Frontend**: React / Vue / Angular
- **Backend**: Node.js / Django / Flask / Spring Boot
- **DB**: PostgreSQL / MongoDB
- **Auth**: Basic auth or OAuth (Google SSO, etc.)

🎯 What You'll Be Judged On

- Completeness of features

- Usability of the platform
- Code quality and modularity
- Innovation (any bonus or unique additions)

Submission Guidelines

- GitHub repo link with clear README
- Include working demo (if possible)
- Mention what features are done or in progress

Evaluation Criteria

Criteria	Weightage	Description
Course & Content Management	25%	Smooth creation, publishing, and viewing of content
Tracking & Role-Based Access	20%	User progress tracking, assignments, access roles
Recommendation Engine	15%	AI-driven or rule-based content suggestions
Dashboards (User/Admin)	15%	Visual, meaningful dashboards and metrics
System Design & Modularity	15%	Clean architecture, scalable backend
Bonus: Gamification, Scheduler		