Scope of Work: AI-Powered E-learning Platform

1. Project Overview

The platform will offer Al-driven online courses focused on digital skills, freelancing, business, and professional development. It will provide an interactive learning experience with Al-generated insights, assessments, and automation for content creation.

2. Features & Deliverables

2.1. Core Features

♥ User Authentication & Profiles

- Secure login with OAuth (Google, Facebook, LinkedIn, email)
- User profiles with learning progress tracking

⊘ Course Management System (CMS)

- Create, edit, and publish courses with video, text, quizzes, assignments
- Al-powered course recommendations
- Progress tracking & certification issuance

≪ Al-Powered Features

- Al-generated course suggestions
- Al-based content summarization & quiz generation
- Al-powered chat assistant for student support

∀ Live & Recorded Classes

- Integration with Zoom, Microsoft Teams, or a WebRTC-based video system
- Live chat & Q&A sessions

⊘ Community & Engagement

- Discussion forums & peer interactions
- Gamification (leader boards, badges, points system)

⊘ Monetization & Payment Gateway

- Subscription models (monthly/yearly)
- One-time course purchases
- Payment integration with Stripe, PayPal, Razorpay

⊘ Admin Dashboard & Analytics

- Instructor analytics dashboard
- Student engagement insights
- Al-powered recommendations for course improvements

3. Technology Stack

Frontend (User Interface)

- React.js / Next.js (for fast, SEO-friendly web app)
- TailwindCSS / Material UI (for a modern UI/UX)

Backend (Server & API)

- Node.js + Express.js (scalable backend API)
- GraphQL / REST API for data management

Database

- MongoDB / PostgreSQL (scalable data storage)
- Redis (caching for faster performance)

AI & Machine Learning

- OpenAl GPT API (All chatbots, course recommendations)
- Google Cloud AI / TensorFlow (AI-driven quiz & assessment generation)

Cloud & DevOps

- AWS / Google Cloud / DigitalOcean (hosting)
- Firebase (authentication, push notifications)
- Docker & Kubernetes (scalability)

Payments & Security

- Stripe / PayPal (for payments)
- JWT (JSON Web Tokens) & OAuth 2.0 (secure authentication)

4. Project Timeline & Milestones

Phase	Du	ration	Deliverables
1. UI/UX Design	1 weeks	Wireframes	, prototypes, user flow diagrams
2. Backend & Database Setup		3 weeks	Set up API, user authentication, and

3. Frontend Development 1 weeks Develop core platform, implement course player

4. Al & ML Integration 1 weeks Al-based content recommendations & Chabot

5. Payment & Monetization 1 weeks Payment gateway, subscription models

6. Testing & QA & Deployment & Launch 1 weeks Performance testing, bug fixing

Total Development Time: ~2 Months

5. Cost Estimate

Component Estimated Cost

Sign Up \$9000

UI/UX Design \$5,000

Frontend Development \$6000

Backend & API Development \$5000

Database & Cloud Hosting Setup \$5,000

Al & Machine Learning Features \$10,000

š Estimated Total Cost: \$40,000

(Prices may vary based on team location, developer expertise, and feature complexity.)

6. Post-Launch Support & Maintenance

After the initial launch, a monthly maintenance plan is recommended:

- - Server monitoring, minor bug fixes, security patches
- Advanced Maintenance (\$3,000/month)
 - Feature updates, performance optimization, AI improvements