EduGuide: A one-stop personalized roadmap generator and advisor

Intro: EduGuide is a one-stop personalized career roadmap generator and advisory platform designed to bridge the communication gap between students and industry professionals. Built by **Prabhat, Yuvraj, and Shreyansh**, EduGuide addresses one of the most critical challenges faced by today's students — the lack of clear guidance in a rapidly evolving industry landscape.

The platform enables professionals to register as **mentors**, allowing them to engage in **one-on-one real-time conversations** with students. Through these interactions, students receive direct insights, career advice, and practical guidance from experienced industry experts, helping them make informed decisions about their learning paths and career goals.

EduGuide integrates several AI-powered features to enhance the learning experience. It provides **AI-generated mock interviews** to help students prepare for real-world hiring scenarios, along with **Coursera course recommendations** to support skill development and certification. A core feature of EduGuide is its **customized roadmap generation bot**, which creates a structured learning roadmap based on the user's goals and available timeframe. The roadmap is broken down month-wise and week-wise, giving students a clear and actionable plan.

By combining mentorship, intelligent automation, and structured learning, EduGuide empowers students with clarity, confidence, and direction in their career journey.

Vision: The vision of EduGuide is to create a unified digital ecosystem where every student, regardless of background or location, has access to clear, reliable, and personalized career guidance. In today's fast-changing technology landscape, students are often overwhelmed by the number of choices available to them, while meaningful guidance from industry professionals remains difficult to access. EduGuide exists to solve this problem by bringing mentorship, structured learning, and intelligent automation onto a single platform.

We envision EduGuide as more than just an academic project — it is being built with the intention of becoming a **real-world product** that delivers measurable value to students and professionals alike. Our goal is to establish a sustainable platform where industry experts can directly contribute to the growth of future talent, while students receive practical insights that go far beyond conventional classroom learning.

A core part of this vision is building a strong community of mentors from diverse industries who are willing to share their experience, offer guidance, and actively participate in shaping student careers. Through one-on-one mentorship, AI-driven mock interviews, curated course recommendations, and highly customized learning roadmaps, EduGuide aims to become a trusted career companion for every learner.

We are actively looking forward to collaborating with industry professionals, organizations, and educators who believe in empowering the next generation. EduGuide is an invitation to join us in this journey — not only to improve career guidance systems but to redefine how students prepare for the future of work.

User Interaction Pathway – How to Use EduGuide

To start using the EduGuide platform, users should begin from the **landing page**.

1. On the top navigation bar, click the **"Get Started"** button,
   or click **"Start Your Journey"** on the landing page.

2. You will be redirected to the **authentication page**, where you can either **Login** or **Sign Up** to create your account.

3. After successful login or signup, return to the landing page and click on **"Explore Our Features."**

4. You will then be redirected to the **Features page**, where all available services of EduGuide are listed, including:

   ○ Personalized Roadmap Generator

   ○ AI Mock Interview System

   ○ Mentor Chat

   ○ Course Recommendations

5. Select any feature by clicking on it, and you can start using it immediately according to your needs.

6. Once you have experienced the platform, users are encouraged to **share feedback by giving a review** and **telling their success story**, helping us improve the system and inspire other learners.

EduGuide – Feature Documentation

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1. Personalized Roadmap Generator

The Personalized Roadmap Generator is the core feature of EduGuide. It allows students to generate a fully customized learning and career roadmap based on their personal goals, interests, and available time.

How It Works

The user provides:

- Career goal or target role
- Current skill level
- Preferred technologies or domains
- Total duration in months

Based on this input, the system generates a **month-wise roadmap**, where each month is further broken down into **weekly learning goals**.
Each week contains specific topics, recommended resources, and practice objectives.

This structured plan helps students stay consistent, organized, and focused on long-term career goals.

2. AI Mock Interview System

The AI Mock Interview system simulates real-world technical and HR interviews.

Features

- Role-based interview generation
- Dynamic question flow
- Instant feedback on responses
- Performance evaluation

This system prepares students for actual interview scenarios by improving confidence, communication, and problem-solving skills.

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3. Mentor Chat System

EduGuide enables direct **one-on-one communication** between students and industry professionals.

How It Works

- Professionals sign up as **mentors**
- Students can browse available mentors
- Students can initiate real-time chat sessions
- Mentors provide personalized career guidance

This interaction bridges the gap between academic learning and industry expectations.

4. Course Recommendation System

EduGuide recommends relevant **Coursera certification courses** based on:

- User career goals
- Skill gaps identified in the roadmap
- Industry trends

This ensures students enroll in the most valuable certifications for their career path.

5. Review & Experience Sharing

Students are encouraged to:

- Submit platform reviews
- Share their learning journey
- Provide improvement suggestions

This feedback helps improve EduGuide and inspires future learners.

6. Authentication & User Management

EduGuide provides secure user authentication:

- Signup
- Login
- Protected access to features

- Role-based access (Student / Mentor)

This ensures a personalized and secure user experience.