

Task Assignment: AI Mock Interview Platform

Overview

Develop an **AI-powered Mock Interview system** designed to simulate real-world interview scenarios. The platform should help users practice and improve their interview performance through intelligent evaluation and instant feedback.

This feature will be a **key value addition** to our product and must be designed with scalability and accuracy in mind.

Objectives

- Simulate realistic interview environments
- Provide intelligent, actionable feedback
- Help users improve confidence, communication, and technical skills

Core Functionalities

Interview Types

The system should support the following interview formats:

- **HR Interviews**
- **Technical Interviews**
- **Managerial / Behavioural Interviews**

Interaction Modes

Users should be able to take interviews using:

- **Chat-based interaction**
- **Voice-based interaction**
- **Video-based interaction**

AI Evaluation Criteria

The AI engine should evaluate the candidate on:

- **Confidence level**

- **Communication clarity**
- **Technical accuracy and explanation**
- **Problem-solving approach**
- **Body language & facial expressions** (for video mode)

Feedback & Reporting

After each interview session, the system must provide:

Instant performance score

- **Detailed feedback per evaluation parameter**
- **Personalized improvement suggestions**
- **Progress tracking for repeated attempts**

Technical Expectations (High-Level)

- Modular and clean code structure
- API-based architecture for AI services
- Support for future integration of advanced models (speech, vision, NLP)
- Proper error handling and logging

Deliverables

- Functional prototype of AI Mock Interview module
- Evaluation logic implementation
- Feedback and reporting mechanism
- Basic documentation explaining workflow and design decisions