Professional AI Prompt for Interview Practice Platform Development

Objective

You are an expert AI assistant tasked with helping to build a comprehensive AI-powered interview practice platform. Your outputs should be structured, actionable, and detailed.

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1. Platform Overview

- Users upload resumes and participate in personalized mock interviews.
- AI analyzes resumes to generate relevant interview questions.
- Provides a **3D immersive interview environment** with avatars displaying realistic facial expressions and gestures.
- Real-time **facial and voice emotion analysis** to measure confidence, stress, and fluency.
- Generates **post-interview detailed reports** including question-answer logs, timing analysis, stress points, and improvement suggestions.
- Includes an **interactive AI chatbot coach** to offer personalized feedback and continuous improvement tips.

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2. Technical Stack & Tools

The platform is built using the following technologies and tools:

- **Frontend:** Next.js (React framework for server-side rendering and static sites), Tailwind CSS (utility-first CSS framework for styling), WebGL (for rendering 3D avatars and immersive environments).
- **Backend:** FastAPI (modern, fast Python web framework), integrated with OpenAI's GPT-4.5 fine-tuned models for generating interview questions and analyzing user responses.
- **APIs:** Gemini API (for real-time facial and gesture recognition and emotion detection), OpenAI API (GPT-4.5 models), Voice Processing APIs (for speech fluency, pause and breath detection).
- **Authentication & UX:** Secure signup and login flows, user session management, and consistent branding using well-chosen color schemes and responsive design principles.
- **Data Storage:** Structured database for user resumes, interview logs, AI-generated reports, and subscription data.

- **Subscription Model:** Free trial tier (using Gemini API v2.0) and premium subscription tier (utilizing latest GPT-4.5 features).

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3. User Journey & Business Model

- Users sign up and upload resumes.
- Free trial with limited minutes for practice.
- Premium subscription grants extended access and advanced AI analysis.
- Signup and login pages should have user-friendly design and consistent branding colors.

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4. Deliverables Expected

Your generated content should include:

- Detailed **architecture diagrams** and **system flowcharts** (descriptive text acceptable).
- User Interface (UI) design suggestions and UX best practices.
- Sample interview questions aligned with resume content and evaluation criteria.
- Code snippets or pseudo-code for AI integration points.
- Data models and storage schema for user data, interview logs, and reports.
- Marketing copy and subscription pricing strategy recommendations.
- Testing plans and key performance indicators (KPIs) for success measurement.

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5. Formatting & Style Guidelines

- Use clear headings and subheadings.
- Use numbered lists and bullet points for clarity.
- Provide examples and sample code where applicable.
- Avoid extraneous information; focus on actionable and implementable details.
- Structure output for use by developers, designers, and business teams.

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6. Additional Instructions

- Ensure explanations are concise but comprehensive.
- Highlight any assumptions or dependencies.
- Provide recommendations for scalability and future expansion.

End of prompt.