

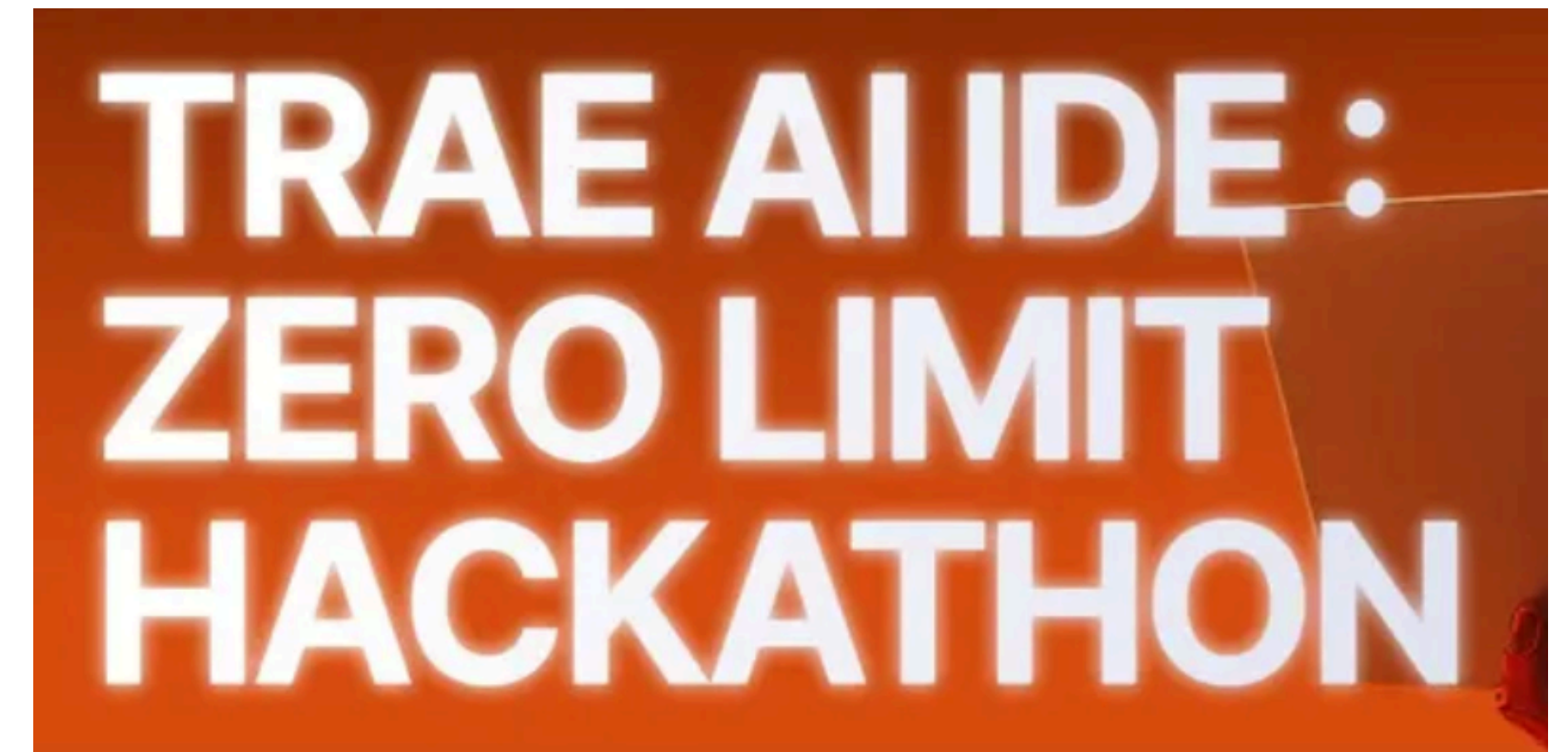
MockInterviewAI

AI-Powered Interview Preparation
Platform for Students

Theme: Education

Team Name: Neuronsmith

**Problem Title: Mock Interview AI (AI-Powered Interview
Preparation Platform for Students)**



Problem Statement (Theme: Education)

Despite having strong technical skills, many students — especially from Tier 2 and Tier 3 colleges — struggle in interviews due to a lack of realistic practice, structured feedback, and confidence-building tools, leading to missed job opportunities.

1

Lack of Exposure

Interview performance often decides a candidate's future, but many talented students lack real-world exposure to live interviews.

2

No Access to Mock Interviews

Career cells or placement teams are either overburdened or non-existent. They can't focus on every individual.

3

Lack of Feedback

Even when mock interviews are done, they lack quality feedback, especially on soft skills like tone, eye contact, and anxiety management.

4

Interview Anxiety

A large portion of rejections stem not from technical incompetence but from nervousness, poor articulation, and lack of facial control.

5

Generic Preparation Resources

Existing tools are either outdated, expensive, or non-interactive (text-only or scheduled sessions).

Introducing MockInterviewAI

MockInterviewAI is a sophisticated AI-powered mock interview platform that provides realistic interview experiences with dynamic feedback, mood analysis, and real-time facial expression tracking.

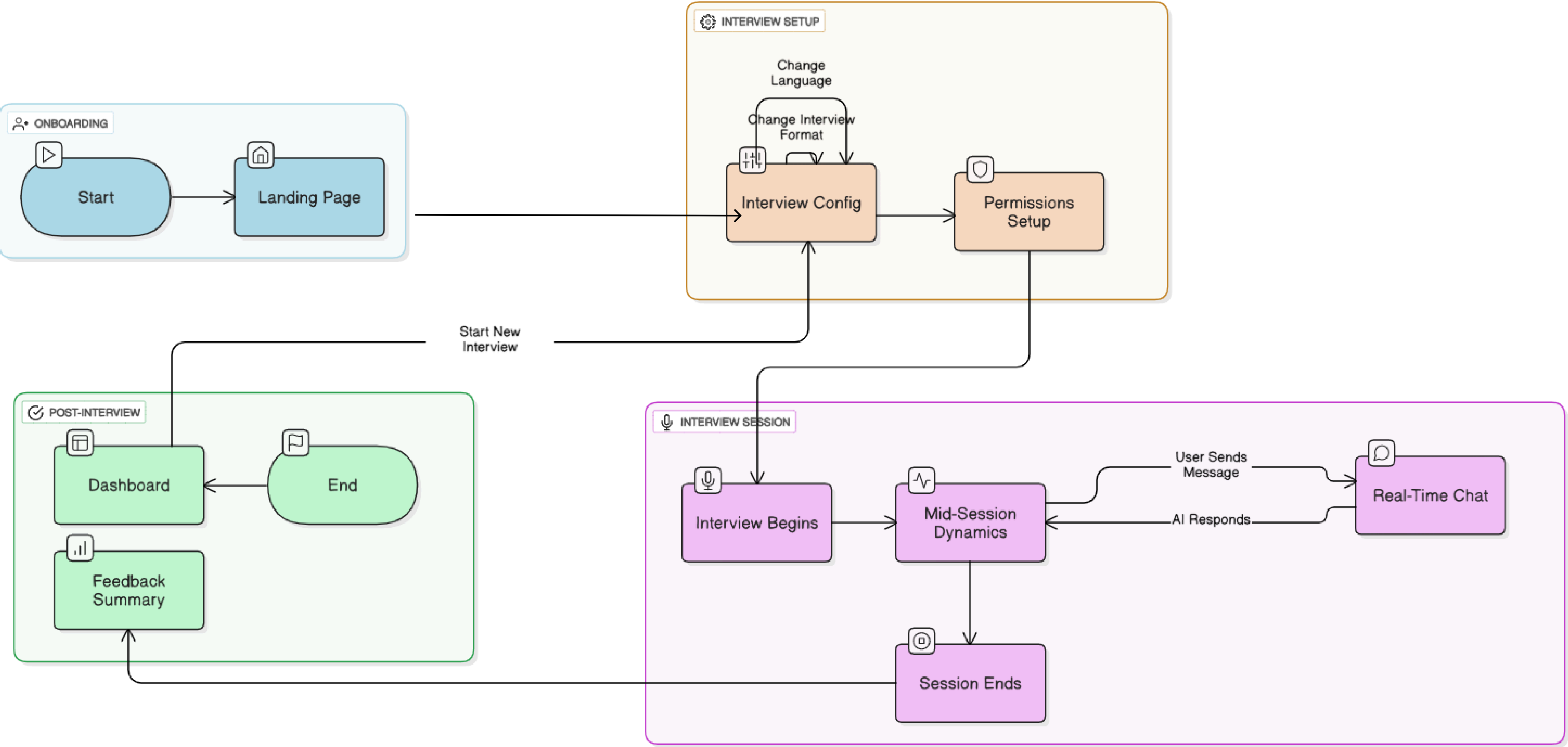
Features of MockInterviewAI

- **Multi-Modal Interview Simulation:** First platform to blend voice, video, and emotion AI for interview training in a single interface.
- **Language Inclusivity:** Breaks language-barrier-based nervousness. Great for students who feel confident in Hindi but are judged in English.
- **Emotion Tracking as Feedback Metric:** Rejection often stems from anxiety — not technical failure.
- **Personal Analytics:** Confidence graph, emotion changes, speaking clarity, eye movement — all quantified for better self-awareness.
- **Real-World Pressure Replication:** The webcam-on environment and voice input forces users to perform like they would in real interviews.
- **Role-Based AI Personas with Tuned Voices and Styles:** MockInterviewAI offers 3 distinct AI interviewer personas, each crafted to simulate real-world interviewer behavior. Each persona uses Murf AI with customized voice ID, pitch, and speed to match real-world speaking styles — making the experience immersive and less robotic.
- **Dynamic, Adaptive Gemini AI Conversations:** MockInterviewAI uses Gemini AI to generate questions on-the-fly based on your role, previous answers, and interview type.

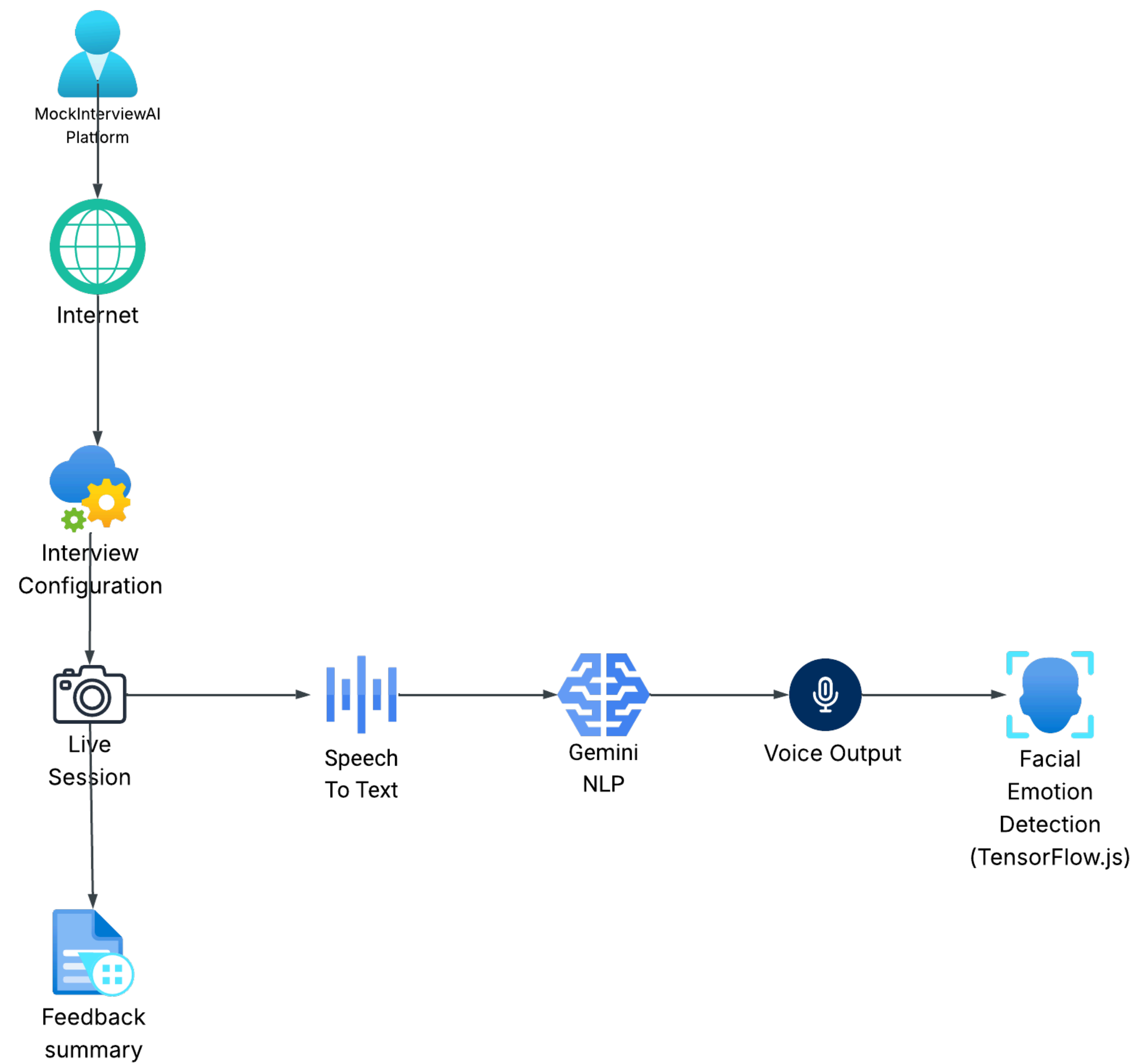
Product USP (Unique Selling Proposition)

- **Voice Interaction:** Speak naturally with AI and receive spoken responses with Murf-generated voices.
- **Facial Emotion Detection:** Real-time detection of confidence, anxiety, nervousness, eye contact using TensorFlow.js + face-api.js. This live emotional input alters how AI reacts.
- **AI Personas:** Interviewers tailored by role - Tech, HR, Product. Each has a tailored personality, voice, and questioning style, simulating real interviewer diversity.
- **Multilingual Support:** Supports English and Hindi (with scope for regional/local languages via Gemini). Reduces language barrier stress and increases inclusivity.
- **Mood Meter:** Tracks user emotional trajectory over session. Reflects how confident or nervous the AI perceives the user to be throughout the session.
- **Feedback Report:** Generates dynamic, actionable feedback on confidence, tone, facial control, and answer quality.

User Flow



Technical Architecture Diagram



Technologies used in the solution

Frontend

- **Framework:** Next.js 14 with App Router
- **Language:** TypeScript
- **UI Components:**
 - Custom components with **Tailwind CSS**
 - **Radix UI** for accessible components
 - **Lucida Icons** for consistent iconography
- **State Management:** React Hooks and Context API

AI & Machine Learning

- **Language Model:** Google Gemini AI
- **Voice Synthesis:** Murf AI
- **Face Detection:** face-api.js
 - Real-time facial expression analysis
 - Eye contact detection
 - Engagement metrics tracking

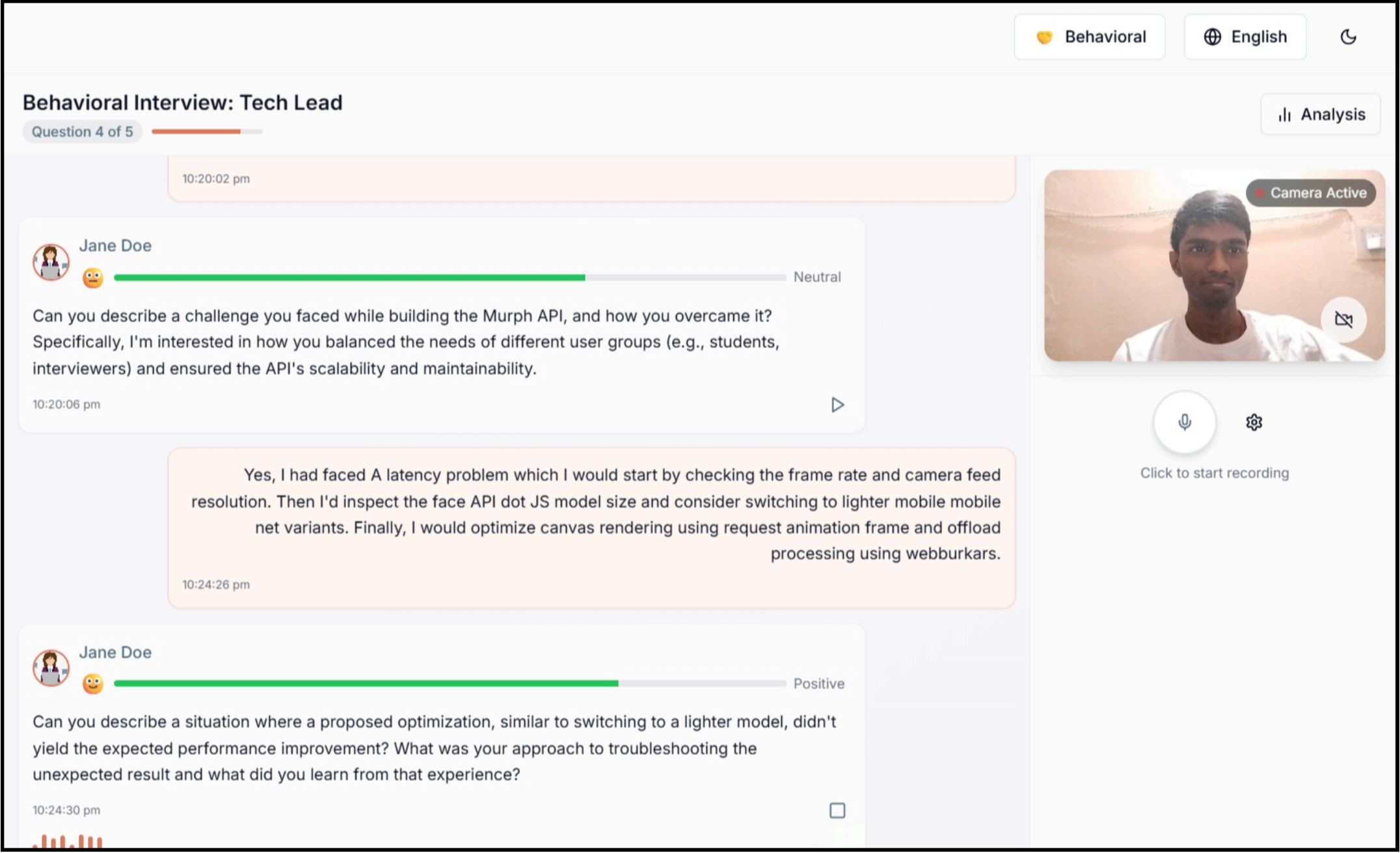
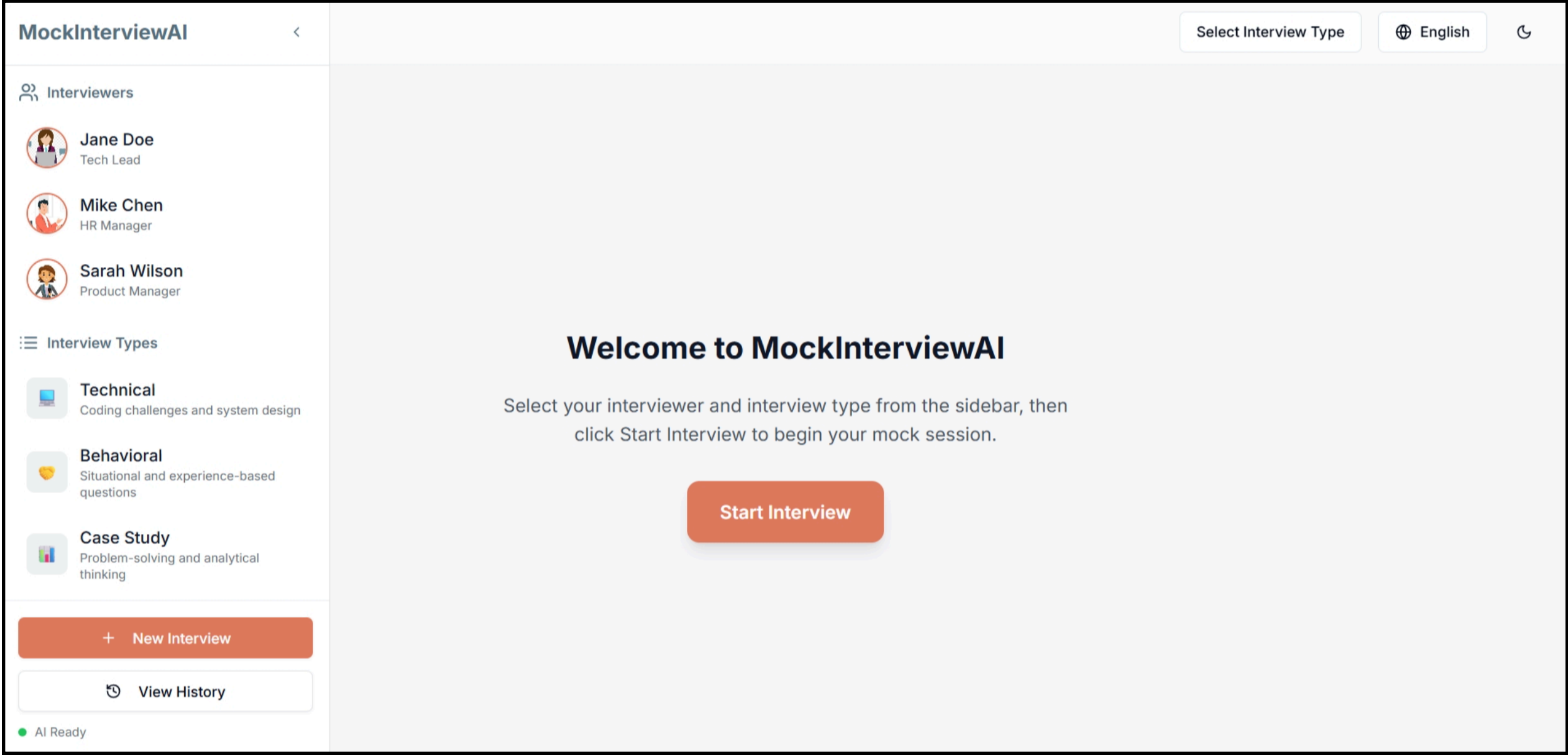
APIs

- **API Integration:**
 - Google Gemini API for natural language processing
 - Murf AI API for voice synthesis
- **Data Storage:** Local storage for session management

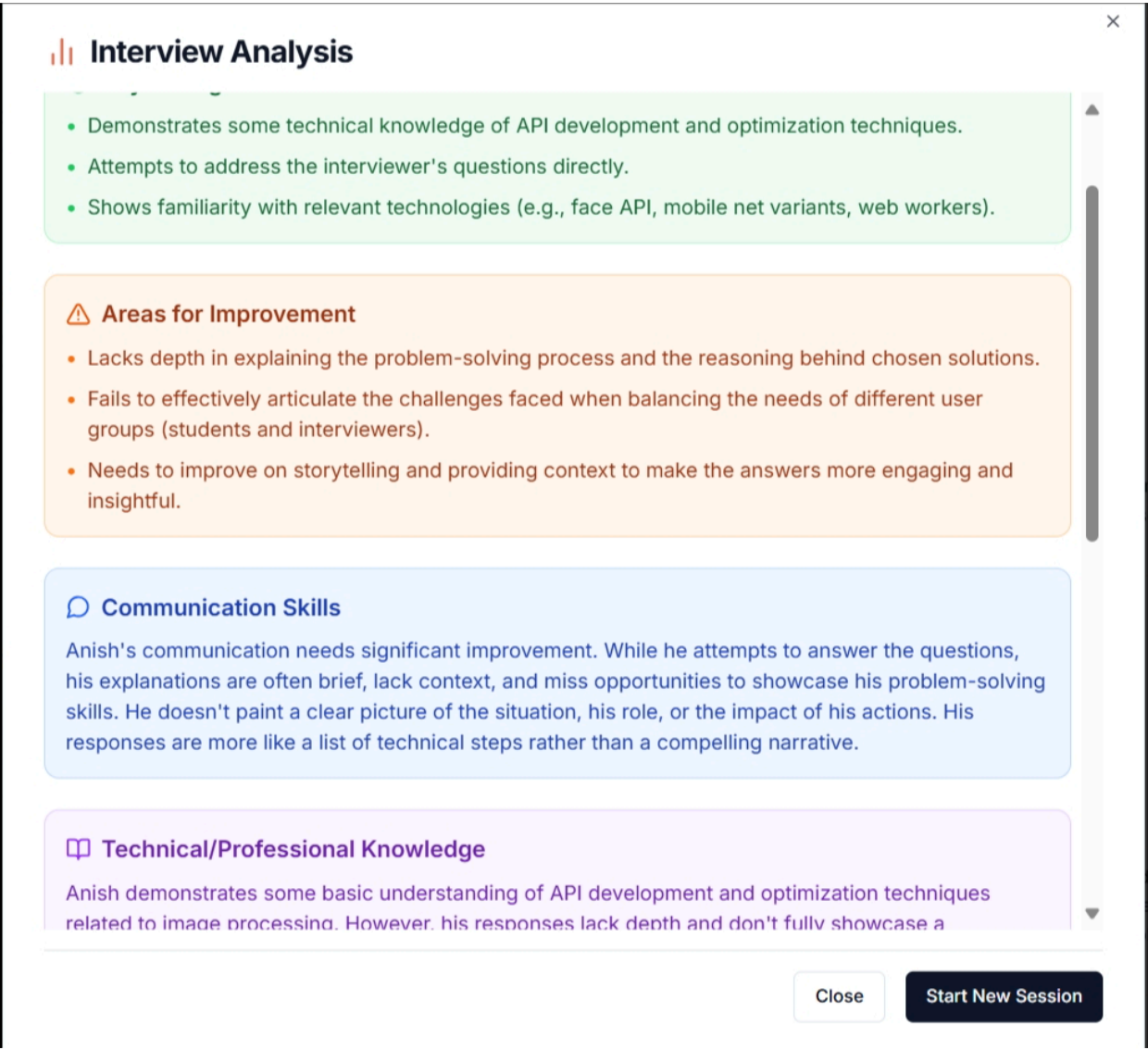
Deployment

- **Vercel**

Snapshots of the Platform



1 Dashboard



3 Interview Analysis

2 Interview Session

Key Competitors : The current 'Practice' vs Real Simulation

Current Platforms

Skillora.ai, Google Interview Warmup, Huru, Interviews Chat: These platforms provide fundamental question-and-answer formats.

- **Fixed Questions & Responses:** They often use static question banks and lack true, dynamic conversation.
- **No Real-Time Adaptation:** They can't adapt to your unique answers or probe deeper like a human.
- **"Blind" to Non-Verbals:** No facial analysis means they can't gauge your emotions, confidence, or eye contact.
- **Often Monolingual:** Limited language support restricts global preparation

How MockInterviewAI is different?

We don't just simulate questions, we recreate the entire interview experience.

- **Dynamic, Conversational AI:** Our Gemini AI generates real-time, contextual follow-up questions, mirroring a human interviewer.
- **Facial & Emotional Intelligence:** Real-time facial analysis (WebRTC, TensorFlow.js) detects your nervousness, confidence, and eye contact.
- **Authentic Voice Personas:** Murf AI delivers high-quality, persona-specific voices, creating truly immersive, natural-sounding conversations.
- **True Multilingual Support:** Practice in English, Hindi, and more with our comprehensive languages.
- **Holistic Performance Analysis:** Get a comprehensive report covering your confidence levels, and recommendations.

Future Add-Ons

- **Resume reviews and Corrections**

- Resume review by AI
- Resume based questions in the interview

- **Live Human Mentor Integration**

- Interview by mentors if performed good in AI interviews
- Mentors can review AI session reports and provide 1:1 coaching.

- **Simulated Company Rounds**

- Simulate complete company-specific interview rounds: e.g., Google Technical + HR + Behavioral, TCS NQT Mock, etc.

- **Mobile App (iOS & Android)**

- Full mobile support for real-time mock interviews.
- Offline mode to practice previously downloaded sessions.
- Push notification reminders for interview practice.

Market Size

Target Users

1. College Students & Fresh Graduates (India & Global)

Estimation: Assume 25% actively seek job interviews per year.

→ Potential market: 60–70 million users/year

2. Working Professionals Upskilling / Switching Jobs

Estimation: 5% interested in mock interviews/prep tools.

→ 6–8 million users globally/year

3. EdTech Platforms & Coaching Centers

- Can integrate MockInterviewAI as a tool

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Go To Market Plan

Target Users

- Tier 2/3 College Students (Engineering, MBA, BSc, etc.)
- Early-Career Job Seekers (0–3 years experience)
- Training & Placement Cells in colleges
- EdTech Platforms (API integration)

Marketing Channels

- Campus Marketing : Partner with T&P Cells of colleges
- Digital Marketing
- Google Search Ads for "mock interview", "AI interview practice", etc.
- YouTube ads with demo video snippets
- Email Partnerships

Product-Led Growth

- Free model: First interview + summary for free
- Paid plan: ₹399/month → Unlock full analysis, export reports, interview history, and more personas.
- Offer bulk licensing for colleges

Feedback Loop & Virality

- End of every interview: prompt user to share scorecard on LinkedIn → Free credit
- Referral system: Invite 2 friends → Unlock premium persona or extra interview

Target → Awareness → Acquisition → Activation → Revenue → Referral

THANK YOU