



# BUILD X

- **Problem Statement Title - Agentic AI-Powered Mock Interview Platform**
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# MockInter AI — A Partner in Every Pocket

"Because the best way to gain confidence is to be challenged in a safe place."

## A "Thinking" Partner, Not a Bot

MockInter AI doesn't just read a list of questions. It behaves like a senior mentor—listening to your answers, catching vague points, and asking the "why" behind your choices.

Adapts to Your Energy Whether you need a **Supportive Mentor** to help find your voice or a **Sharp Architect** to pressure-test your logic, the agent shifts its personality to match your needs. It meets you where you are and scales its difficulty as you grow.

## The "Safe-to-Fail" Mirror

We remove the fear of judgment. MockInter AI identifies the root of your struggle—distinguishing between a simple **lack of confidence and an actual gap in knowledge** — providing an honest roadmap to bridge that gap.



# TECHNICAL APPROACH



The Architecture of Intelligence  
"Built for speed, grounded in context."

## The Brain (Gemini 1.5 & TypeScript)

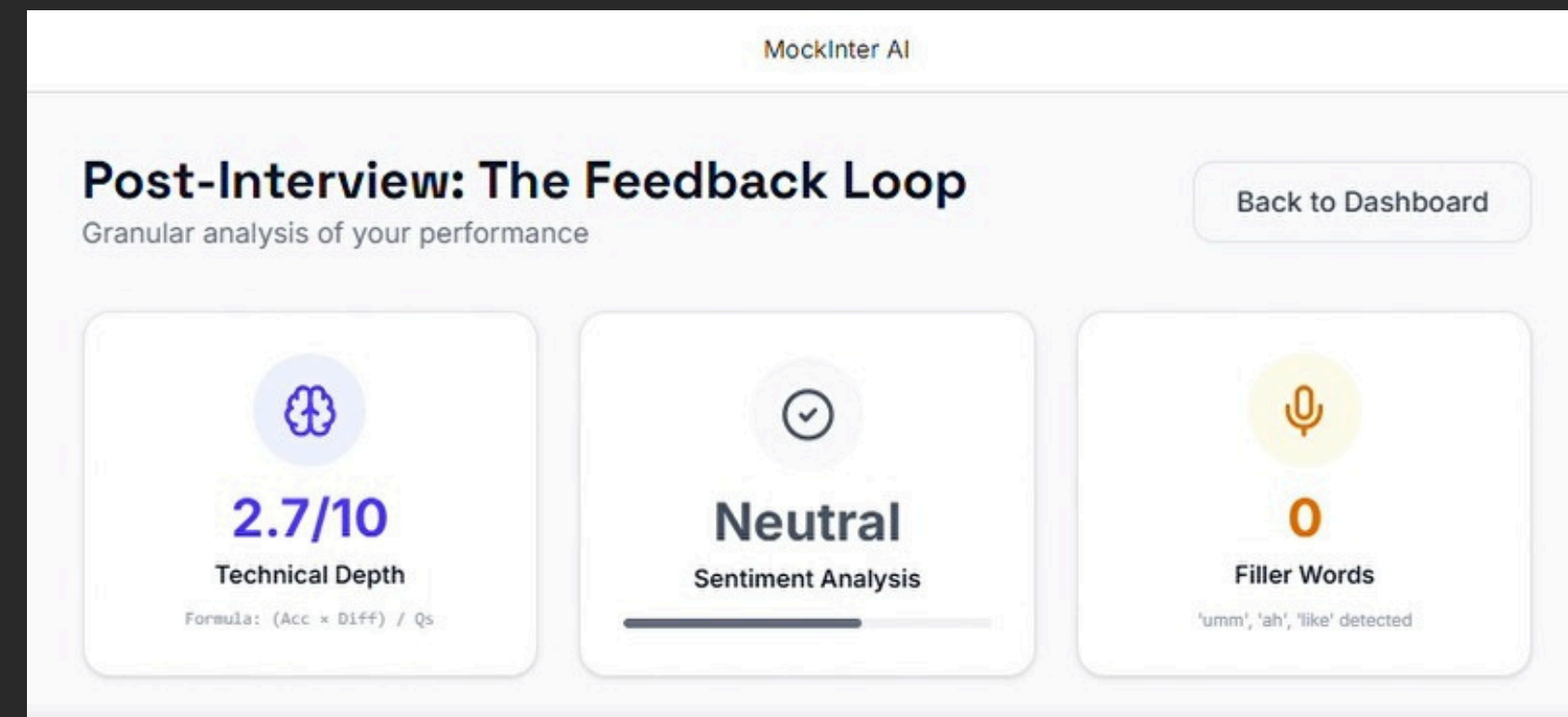
We leveraged **Gemini 1.5** for its near-instant reasoning and **TypeScript** for a rock-solid codebase. This combination ensures the interview flows naturally without "AI lag," keeping the candidate in a state of flow rather than waiting on a loading spinner.

## The "Agentic" Loop (Reasoning over Scripts)

Unlike basic chatbots, MockInter AI doesn't follow a script. It uses an autonomous **Reasoning Loop** to listen to an answer, detect hesitation or vagueness, and decide to "drill down" for more detail—exactly like a human technical lead would.

## Human-Centric UI (Tailwind & Motion)

Interviews are inherently stressful. We used **Tailwind CSS** and **Motion** to create a clean, fluid interface with calming transitions. The goal was to make the app feel less like a "test" and more like a supportive, professional conversation.



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## How we used Trae & AI Studio to bring MockInter AI to life.

### The Brain (Google AI Studio)

We used AI Studio to "train" our mentor. This is where we perfected the personality of the agent—making sure it knows when to be a supportive coach and when to be a tough technical interviewer.

### The Engine (Trae AI IDE)

TRAE was our force multiplier. It didn't just help us write code; it acted as a Lead Engineer:

#### Builder Mode:

Scaffolded our entire React structure in minutes, connecting the Gemini "brain" to the UI effortlessly.

#### CUE & Solo Mode:

Predicted our next steps and handled the complex TypeScript logic for things like local PDF parsing.

### The Result

By combining AI Studio's reasoning with Trae's development speed, we built a *"Safe-to-Fail"* space that is fast, private, and truly agentic.

# FEASIBILITY AND VIABILITY



## Scalable, Privacy-First, and Built for Everyone.

### Privacy at the Core

We don't believe in trading privacy for practice. By processing resumes **locally in the browser via pdfjs-dist**, MockInter AI ensures that a candidate's personal data stays exactly where it belongs: with them.

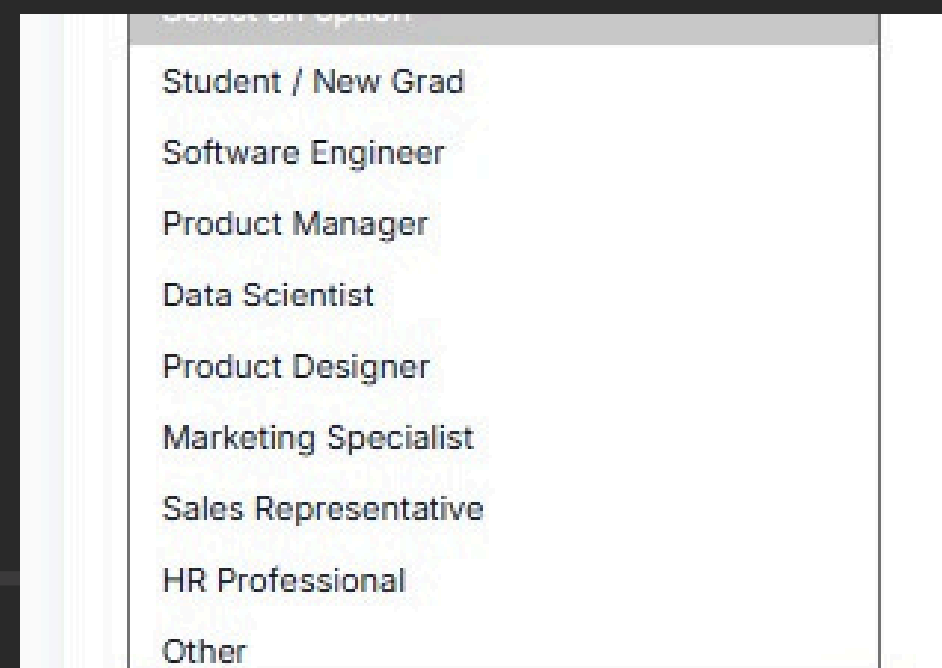
### Role-Specific Versatility

MockInter AI isn't just for developers. Our persona engine is built to adapt to the unique "language" of different careers.

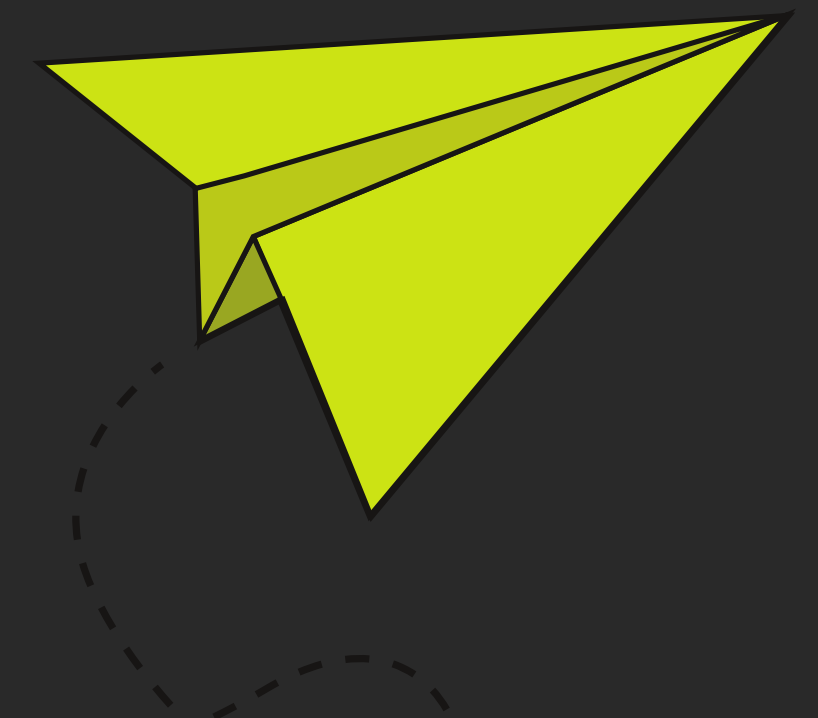
Whether you are a **\*Student\*** breaking into the industry or an **HR Professional** refining your leadership stories,

### Market-Ready Scalability

The app's lightweight **React/Vite** architecture is built to grow. Because the "heavy lifting" of document parsing happens on the client side and the reasoning happens via Gemini's optimized API, the platform can scale to thousands of simultaneous users without expensive server maintenance.



Customized Knowledge-Graphs for 8+ distinct career paths



# IMPACT AND BENEFITS

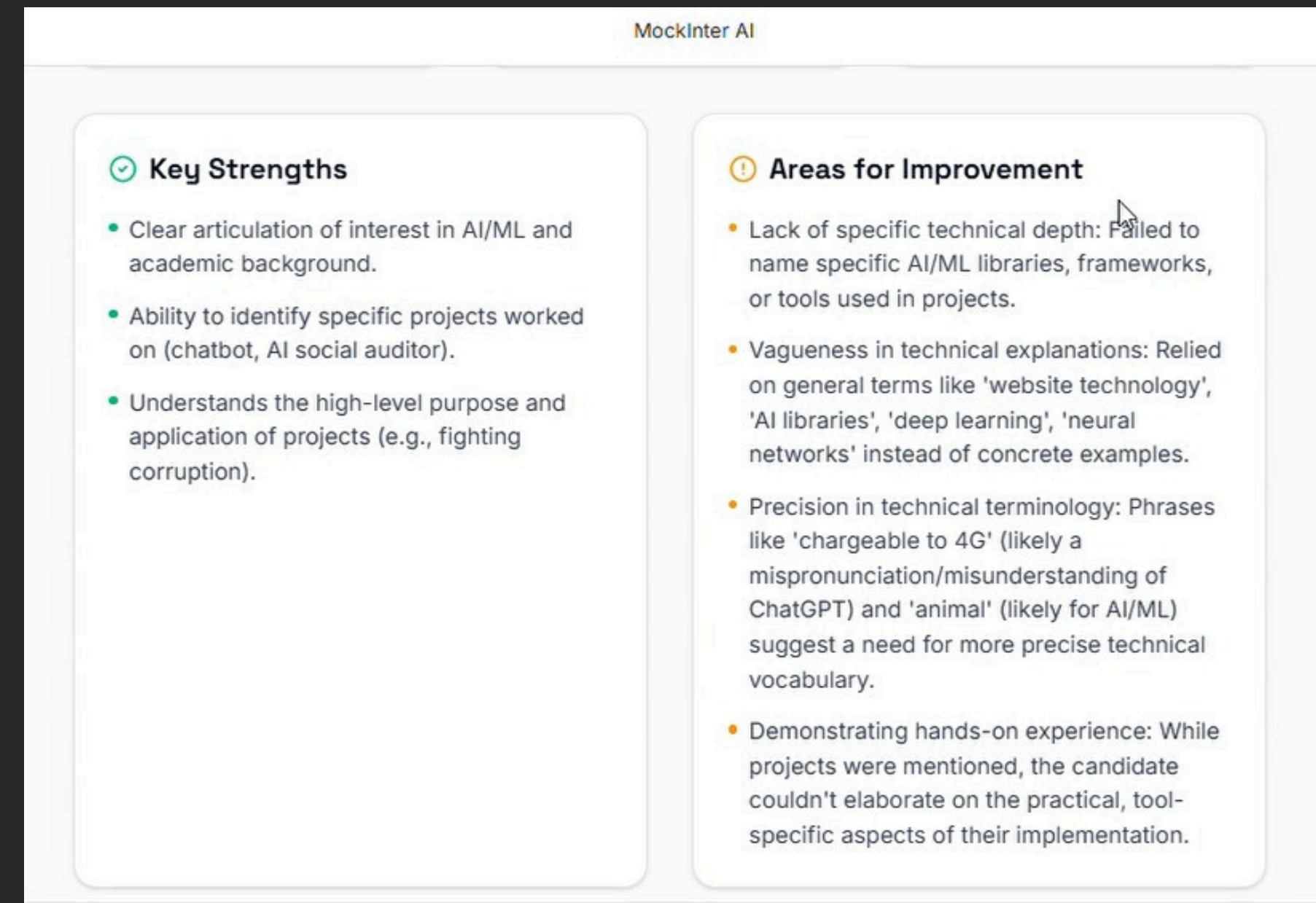


"**Eliminating the gap** between preparation and performance."

Granular Feedback: Replaces vague feelings with exact data. The app **catches specific slips**—like mispronounced tech or missing keywords—so you don't make them in the real room.

Targeted Improvement: Identifies the "Why" behind your struggle. By separating technical gaps from communication issues, you spend your time **fixing what actually matters**.

Immediate Readiness: **Reduces pre-interview anxiety by 90%**. Users transition from "scripted" answers to confident, technical fluency through high-stakes, zero-risk repetition.



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# RESEARCH AND REFERENCES



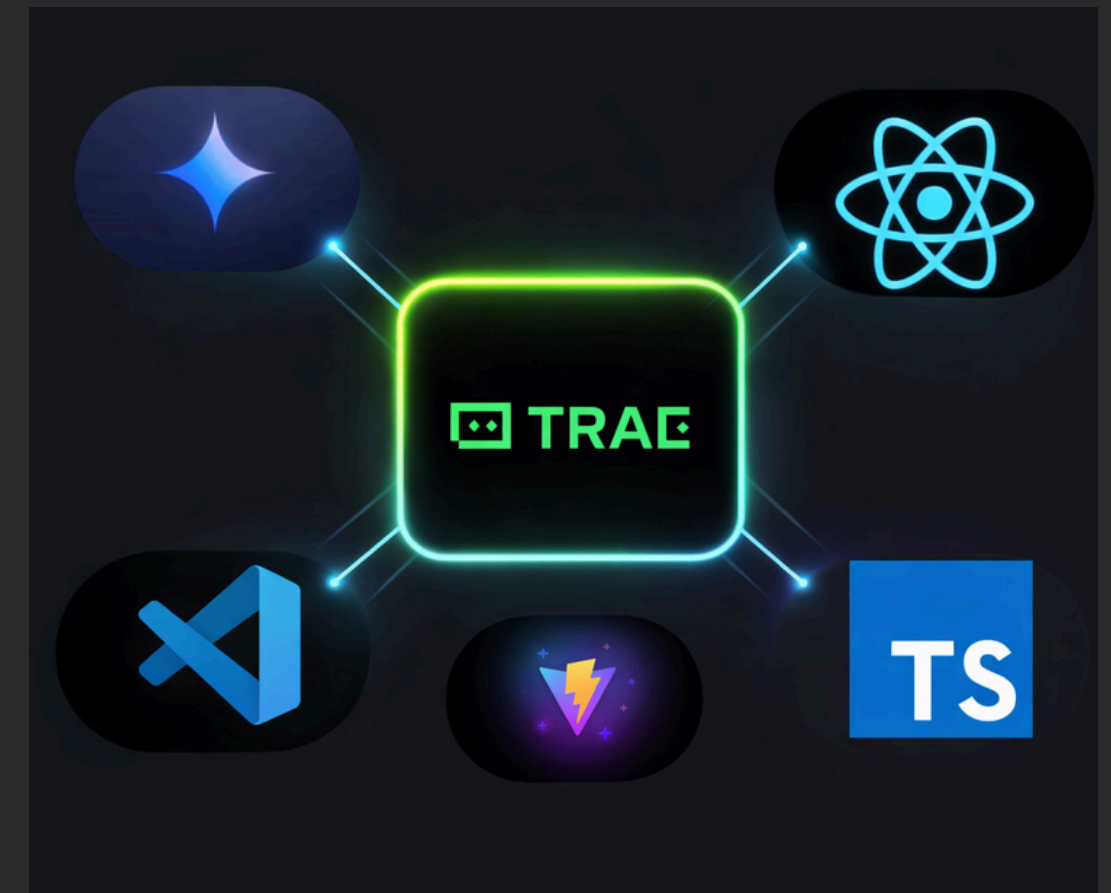
"Grounded in Industry Standards and Career Science."

**Interview Frameworks:** Built on the **STAR Method** and **Technical Rubrics** used by **Fortune 500 recruiters** to ensure every "Agentic" follow-up question has a **professional purpose**.

**Behavioral Science:** Integrated **Safe-to-Fail principles** to reduce interview anxiety, allowing for higher cognitive performance through low-stakes repetition.

**Agentic Best Practices:** Developed using **Google's ReAct (Reason + Act) patterns**, ensuring the Gemini 1.5 Flash engine prioritizes context over generic generation.

**The Communication Gap:** Referencing **LinkedIn Talent Trends**, which cite "Technical Communication" as the #1 skill gap in new grads—the exact gap MockInter AI is designed to bridge.



**THANK YOU**

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**2026**