Clarity.ai is a smart, lightweight browser extension created for the Trae AI Zero Limits Hackathon. It started with several brainstorming sessions between our three-member team. We had many different ideas, but what we all agreed on was this: we wanted to build something simple, useful, and easy to use. Something that could help anyone, not just developers or tech experts.

We realized that people often come across content online that's difficult to understand, whether it's a technical article, a confusing paragraph, a block of code, or a sentence in another language. That's where the idea for **Clarity.ai** came from. We wanted to build a tool that could give people quick answers, helpful insights, and deeper understanding; all without leaving the page they're on.

Clarity.ai lets users highlight any text on a webpage; whether it's regular content, a programming snippet, or something complex; and instantly get AI-generated responses in a side panel. You don't have to copy or switch tabs. It all happens smoothly on the same page.

When you highlight text, the extension takes that as a prompt. In the side panel, Trae AI and Gemini AI processes the input and gives you meaningful results. You can ask questions directly about the selected content, and the AI will respond clearly and quickly.

Here's what **Clarity.ai** can do:

Translation
You can translate the selected text instantly into your preferred language. This is helpful for students, travellers, researchers, or anyone browsing international content.

Code Analysis
If you select code, the AI can explain what it does, point out possible issues, or suggest improvements. This is especially useful for new programmers, learners, or people reviewing unfamiliar code.

Text Analysis
You can get summaries, breakdowns, tone detection, or simple explanations of complex sentences. This helps readers, writers, and students better understand difficult passages.

Contextual Research
Clarity.ai can also provide related information or background about a topic. You can ask follow-up questions like "What does this term mean?" or "How is this connected to XYZ?" and get focused, relevant responses.

You don't have to reselect the text for each question. You can continue the conversation in the side panel, digging deeper as needed. And if you find something useful, you can save the response to review it later.

We built **Clarity.ai** using a modern and efficient tech stack:

React for a smooth and responsive interface

TypeScript to keep the codebase reliable and organized

Tailwind CSS for clean, minimal styling

Firebase to manage user data, backend and saved responses

Gemini and Trae AI to power the AI functionality and generate accurate, helpful results

Unlike other AI tools that take you away from your workflow, **Clarity.ai** is designed to keep you in the moment. It works alongside your browsing, allowing you to stay focused and get what you need without distractions.

Our main goal was to build something that people from all fields; students, professionals, researchers, developers, or casual readers; could use with ease. We focused on keeping the interface minimal, the experience smooth, and the learning curve low.

In line with the spirit of the Zero Limits Hackathon, **Clarity.ai** helps remove the barriers between people and the information they're trying to understand. We hope it becomes a tool that not only simplifies web content, but also empowers users to learn, explore, and grow.

The internet throws you the questions. **Clarity.ai** writes the answers — no stress, no switching tabs and definitely **no judgment.**