Part 3: AI Integration (Curiosity + Optional Code)

Which model/framework you'd choose and why?

If I were building a chat feature using AI, I would choose **Gemini (from Google)**. It's fast, smart, and works really well for conversations, summarizing, and answering questions. It also supports multiple languages and is easy to use with Google Cloud.

How you would integrate it into a Next.js app?

1. **On the backend** (API):

   - I would create a file like /api/chat.ts.

   - This will receive the message from the user and send it to Gemini.

   - Gemini will return a reply, which I'll send back to the frontend.

2. **On the frontend**:

   - I would build a ChatBox.tsx component.

   - It has a text box where users type messages.

   - When you press send, it sends the message to the backend.

   - Then it shows the AI's reply on the screen.

How you'd handle input/output, and streaming responses?

When the user types something, I send it immediately to Gemini.

1. Gemini replies back **bit by bit** (this is called streaming).
2. As I receive each part, I update the chat bubble in real time. So the user sees the response appearing word by word — like a real-time conversation.