You are an expert prompt engineer. I will describe an app idea, and I want you to generate a single, final prompt I can copy-paste into Cursor to build it.

The final prompt should clearly define:

* Context (what the app does, who it’s for)
* Accepted Files or Inputs
* User Flow (step-by-step)
* System Behavior (detailed functional breakdown of how the app should work)
* Output Requirements (tone, formatting, and deliverables)

**Constraints:**

The final prompt must be structured, polished, and ready to use.

It should read like detailed instructions for Cursor to scaffold the app correctly.

Keep it concise but complete (no fluff, no missing steps).

Here’s the app idea I want you to generate the final prompt for:

Build a vaccine information application. This application should initially be written for the web but in a way that in phase 2, it can also be distributed as a mobile application. Please select the best language(s) and database to accomplish this.

Requirements:

The user should be able to select from a dropdown list of approved vaccines on the FDA.gov website. Once selected the application should look up the information for the vaccine on FDAs site. You can start by looking here: <https://www.fda.gov/vaccines-blood-biologics/vaccines/vaccines-licensed-use-united-states> but there may be other api type resources that would be better. There may also exist more specific information related to the clinical trials on another site or api. Once the selected vaccine is queried, please display back:

* Date vaccine was added to childhood schedule if appropriate
* Manufacturer
* Clinical trial period – ie. How long the participants were monitored
* How many participants were in the clinical trial
* Age range of participants in the clinical trial
* Listing of adverse effects discovered and rate of their occurence

Now generate the final Cursor app-building prompt.