

Promptly

1. Project Naming & Branding

App Name: Promptly

Tagline: Your micro-reminder, instantly.

This name and tagline are short, memorable, and directly communicate the app's core purpose. "Promptly" implies both speed and immediacy, which are central to the app's value proposition.

2. Technology Stack & Configuration

The technology stack for this project is designed for maximum simplicity and zero cost, making it perfect for a solo developer.

- **Frontend:**
 - **HTML:** The core structure of the single web page.
 - **CSS:** A minimal stylesheet to create a clean, modern look. The UI should be dominated by a single, large button.
 - **JavaScript:** The entire logic of the application will be written in vanilla JavaScript. There is no need for any frameworks (like React or Vue.js).
 - **APIs:**
 - **Web Speech API:** This is a native browser API that provides the voice-to-text functionality. It's free and readily available in all modern browsers. You'll use it to capture the user's spoken reminder.
 - **Web Notifications API:** This API is used to display the final reminder notification to the user, even if the browser is minimized or the user has switched to another tab.
 - **Hosting:**
 - **GitHub Pages:** A free and easy way to host a static HTML, CSS, and JS file. You simply push your code to a GitHub repository, and it's live on the web in minutes. This completely eliminates any server or hosting costs.
 - **No Backend:** As previously stated, there is absolutely no need for a server, database, or API keys. All of the application's logic runs directly in the user's browser.
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3. Core Features & Logic

Your project will have a single user flow with the following steps.

1. **Start State:** The user sees a single button on a screen. The button's text is something like, "Tap and Speak Your Reminder."
2. **Voice Input:** The user taps the button. A JavaScript function is triggered to access the Web Speech API. The browser's native microphone interface appears.
3. **Reminder Processing:** The user says their reminder (e.g., "Take out the trash"). The Web Speech API listens for the input and returns the text string "Take out the trash."
4. **Timer Activation:** The JavaScript code takes the captured text and immediately starts a timer using `setTimeout`. The duration is set to a fixed 180,000 milliseconds (3 minutes).
5. **Notification Display:** After exactly 3 minutes, the `setTimeout` function fires. It triggers a function that uses the Web Notifications API to display a notification on the user's screen with the text they spoke earlier. The notification will simply say, "Promptly: Take out the trash."

4. Implementation Steps (Simplified)

1. **Create the File:** Start with a single `index.html` file. Include a basic `button` element and an empty `<script>` tag.
2. **Add CSS:** Use a `<style>` tag within the HTML or a separate `.css` file to make the button large and centered for a clean user experience.
3. **Write the JavaScript:**
 - Declare a variable for the button element.
 - Add an `onclick` event listener to the button.
 - Inside the event listener, write the code to use the `webkitSpeechRecognition` object (the Web Speech API) to start listening.
 - Implement the `onresult` event handler for the speech recognition object to capture the spoken text.
 - Use `setTimeout` to set the 3-minute timer.
 - Inside the `setTimeout` callback function, use `Notification.requestPermission()` and then `new Notification()` to display the reminder.
4. **Test and Deploy:** Open the `index.html` file in your browser to test it locally. Once it's working, upload the file to a GitHub repository and enable GitHub Pages in the settings. Your app is now live!

Phase 1: Problem Understanding & Industry Analysis

Goal: Understand what we're building and why.

1. Requirement Gathering

The core problem we are solving is the "ephemeral task" – a micro-task that is too fleeting for a traditional to-do list app, but too important to forget. The current process for capturing these tasks is high-friction, involving unlocking a phone, finding a specific app, and typing or navigating menus. This often leads to the thought being lost to distraction.

Our solution is a single-purpose, "digital sticky note" that serves a single reminder, then disappears. The key requirements are:

- **Frictionless Capture:** Capture a thought with a single tap and voice command.
- **Time-Sensitive:** The reminder should be triggered after a fixed, short duration (e.g., 3 minutes).
- **Zero-Overhead:** The app should require no setup, no account creation, and no data storage on a server.

2. Stakeholder Analysis

As a solo developer, I am the sole stakeholder, but I represent the end user.

- **Admin (the developer):** Primary need is simplicity and ease of implementation. The chosen stack of HTML, CSS, and JavaScript with browser APIs meets this need perfectly.
- **End User:** The user wants an incredibly simple, fast, and reliable tool. They need a solution that works without cognitive load and doesn't get in the way of their primary task.

3. Business Process Mapping

The user flow is a simple, linear process with a clear beginning and end.

- **Customer requests reminder:** User has a fleeting thought (e.g., "Take the laundry out").
- **App listens for input:** The user taps the button. The app automatically starts listening for voice input.
- **App sets timer:** The app captures the reminder text and starts a 3-minute countdown.
- **Notification is triggered:** After 3 minutes, a notification appears on the user's screen with the reminder. The process is complete.

4. Industry-Specific Use Case Analysis

While this project is simple, it's solving a real-world problem. Traditional to-do apps are designed for long-term planning, not for in-the-moment tasks. The user doesn't want to add "Take out the laundry" to a long list of other items. They want an immediate, temporary reminder that serves its purpose and then vanishes, leaving no digital clutter.

This is a use case that traditional apps fail to address, as they are built for persistent data and complex organization. The "Promptly" app is a pure solution for this specific user need.

5. AppExchange Exploration

There are no existing AppExchange solutions that fit this specific, simple use case. While a "reminders" app exists in various forms, none are built with the unique, zero-friction, voice-only approach of "Promptly." This confirms the app's unique position in the market.