

- When you run a [app.py](#) you can see this UI as given below :

The screenshot shows the initial landing page of the "Plant Watering Reminder" application. It features a header with the app's name and a sub-instruction: "Select plants, dates, times, add reminders, send full schedule, and get automatic watering emails." Below this is a field labeled "Enter your Gemini API Key: (Needed for custom plant search)" with a placeholder "Enter your Gemini API Key". A note below it says "Please enter your API key to enable the AI Care Schedule feature." A "Select a plant:" dropdown menu is present, with "Select a plant" as the current selection. At the bottom, there's an "AI Help" section titled "Couldn't find your plant? Get AI help!" containing a text input field "Enter the name of your new plant:" and a dropdown for "Select Approximate Pot Size (Diameter)" with "15 cm (Medium)" selected.

- In this UI User have to enter the Gemini API key
 - API KEY: AlzaSyDkAw04G-A-QAiXWoMPpn9krEu6lqSXSIM
- User have to give plant name and this app gives few existing plant names,
 - users can select an plant from existing plant names

This screenshot shows a expanded dropdown menu under "Select a plant:". The list includes "Select a plant", "Aloe Vera", "Peace Lily", "Snake Plant (Sansevieria)", "Spider Plant (Chlorophytum)", and "Money Plant (Pothos)". The "Select a plant" option is currently highlighted.

- if user could not find the desired plant in the drop down then user can select get AI help section. And enter plant name and mention the pot size of it, and click Get Alcare Schedule for plant button

This screenshot shows the "AI Help" section again. The "Enter the name of your new plant:" field contains "Sunflower". The "Select Approximate Pot Size (Diameter)" dropdown is set to "15 cm (Medium)". Below these fields is a button labeled "Get AI Care Schedule for Sunflower", which is circled in black.

and this app will take this as input and gives to Gemini pro LLM (internally with the code) and after 2-4minutes, this Gemini Flash2.5 pro Will generate the whole description of the given plant name

Example: given plant name : Sunflower and select pot size

Now after giving the plant name and selecting pot size click the option "Get AI Care scheduler for Plant "

4. User get description about the desired plant given by user:

Here You can see the for Sunflower app gave generated the description about the plant along with the watering schedule with the quantity

Sunflower Care Schedule

How Many Times/Week	Water Quantity (Litres per Time)	Total Water per Week (Approx.)
0 2.5 time(s)/week (AI recommendation)	0.75 L (750 ml)	1.88 L/week (Approx.)

💡 Adjustment Notes:

- **AI Description:** Sunflowers are annual plants known for their large, bright yellow flowers and heliotropic behavior, thriving in full sun and well-draining soil.
- **Pot Size Used:** 15 cm (Medium)
- Increase watering frequency and quantity during hot, sunny weather and active flowering.
- Reduce watering during cooler, overcast periods or if the plant shows signs of overwatering (e.g., yellowing lower leaves).
- Ensure good drainage; avoid letting the pot sit in standing water to prevent root rot, especially during humid conditions.

5. Now This app gives flexibility to users to select the dates with respect to times to get reminders on selected dates(dates will be displayed from the current date to the 7 days for week so that user can select dates in a week) for pouring water to plant with respective water quantity. In example user selected dates: **Saturday, 13 December, date: 18:30 , 15 December 20** date: 16:30, and click the button

“App Reminder to Schedule”

17 Select 2 date(s) for watering:

Select exactly 2 date(s):

Saturday, 13 Dec... Monday, 15 Dec...

⌚ Select watering time for each date:

Time for Saturday, 13 Dec 2025:
18:30

Time for Monday, 15 Dec 2025:
16:30

Add Reminder to Schedule

6. After Selecting Dates and times, Now app displays the schedule as you can see below:

📅 Current Watering Schedule

	Plant	Date	Time	Water Quantity
0	Sunflower	Saturday, 13 Dec 2025	18:30	0.75 L (750 ml)
1	Sunflower	Monday, 15 Dec 2025	16:30	0.75 L (750 ml)

7. And Then user should provide the mail and click the button

Enter your email to send full schedule and get automatic reminders:

ABCD7@gmail.com

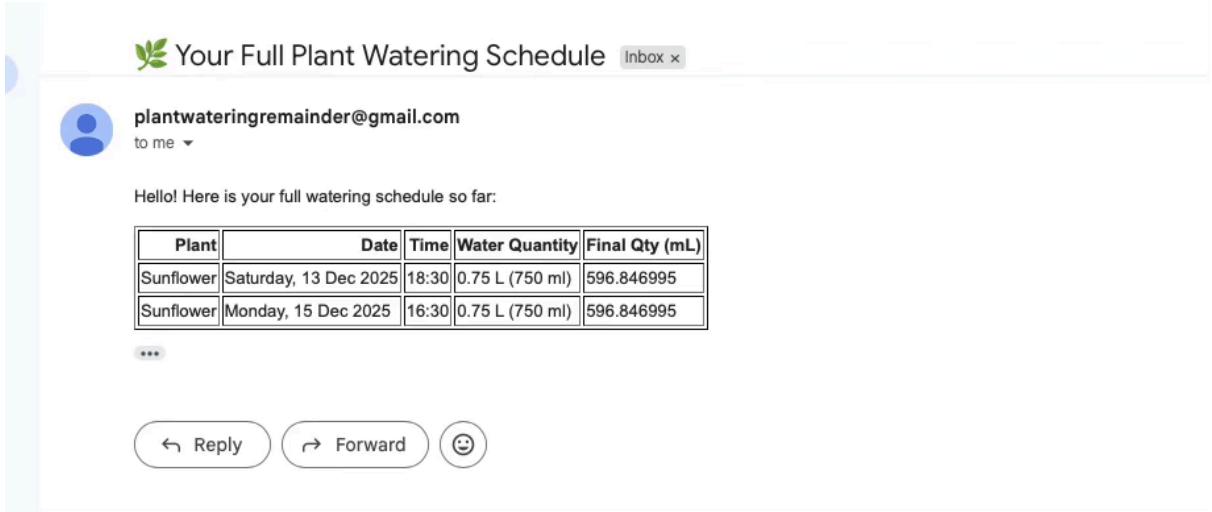
Send Full Schedule and Schedule Reminders

8. And the app will take 2-3 mins to get full schedule of plant watering reminders to the users via mail after sending mail the app will give confirmation about sending the full schedule to user via mail.

 Full schedule sent successfully!

 Automatic reminders scheduled, including environment-adjusted quantities.

9. Mail : full schedule



Your Full Plant Watering Schedule [Inbox](#)

 [plantwateringremainder@gmail.com](#)
to me ▾

Hello! Here is your full watering schedule so far:

Plant	Date	Time	Water Quantity	Final Qty (mL)
Sunflower	Saturday, 13 Dec 2025	18:30	0.75 L (750 ml)	596.846995
Sunflower	Monday, 15 Dec 2025	16:30	0.75 L (750 ml)	596.846995

...

Reminder mail :

Here in the mail, the app will suggest user regarding recommending the water quantity(in ML) with respect to its category after using fuzzySets on selected date and time (after one minute delay)

 Reminder: Water Aloe Vera - 71 mL Needed Inbox x



plantwateringremainder@gmail.com
to me ▾

03:46 (9 hours ago) ☆ 😊 ↶ ⋮

Hello! Here is your plant watering reminder for **Aloe Vera**.

 Scheduled Time: Sunday, 14 Dec 2025 at 03:45

 **Watering Calculation (Environment Adjusted)**

1. Base Quantity (from AI): **0.1 L (100 mL)**
2. Current Temperature (Auto-Detected): **0.0 °C (Freezing)**
3. Adjustment Suggestion (Fuzzy Logic): **-29.33% (Extreme_Decrease)**

...

Final Suggested Quantity: 71 mL

Remember to check your soil before watering!