WaterWise: Effortless Plant Care for Busy People



Meet the Team







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The Problem:

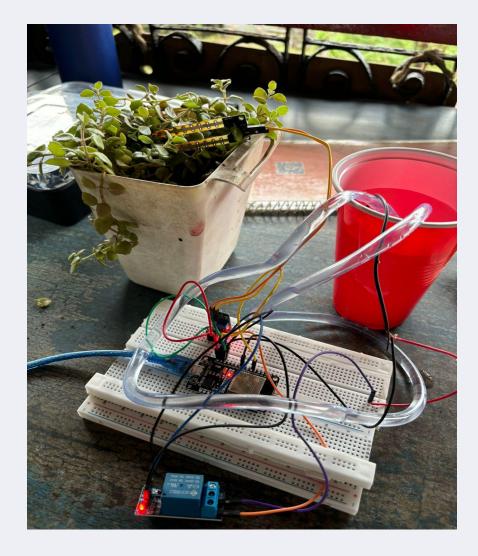
Did you know that one of the earliest home automation systems for plant watering was patented in the 1930s? It used a simple mechanical timer to open a water valve—no electricity or sensors involved!

While it might seem like a minor convenience for urban homes, automated plant watering systems are actually part of a much bigger global challenge: water scarcity and sustainable urban living.

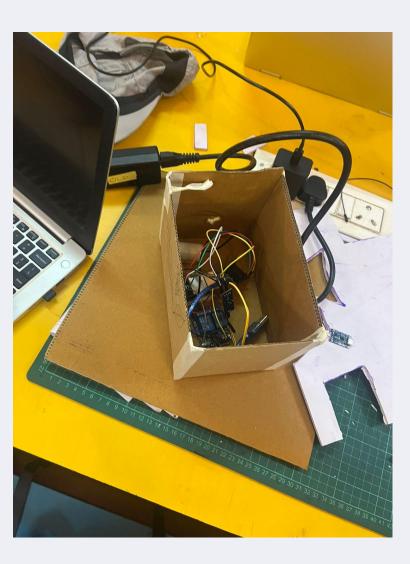
Water Conservation:

Automated systems can use moisture sensors and weather data to optimize watering—often reducing water use by up to 50% compared to manual watering.

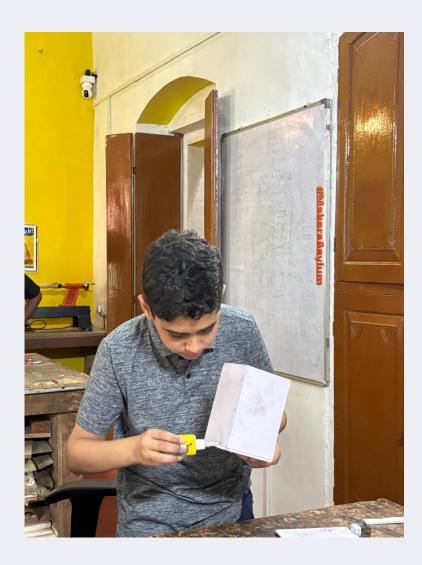
Our Journey with WaterWise:



WORKING HARDWARE

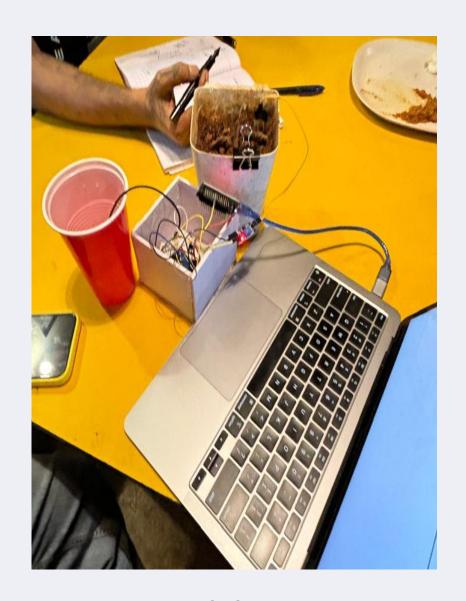


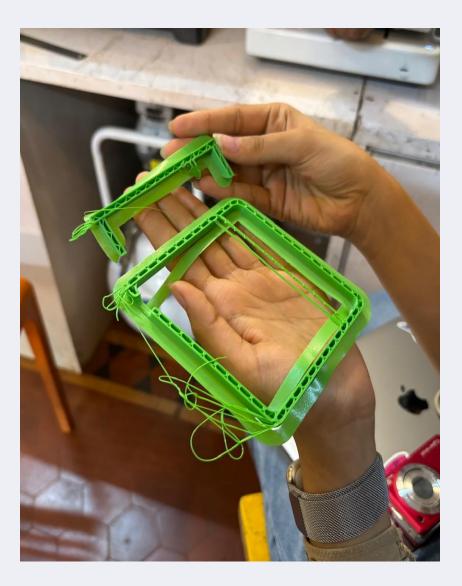
1ST PROTOTYPE USING CARDBOARD



2ND PROTOTYPE WITH FOAM

Our Journey with WaterWise:







3RD PROTOTYPE

FAILED 3D PRINT ATTEMPT OF FINAL BOX

FINAL CONTAINERS

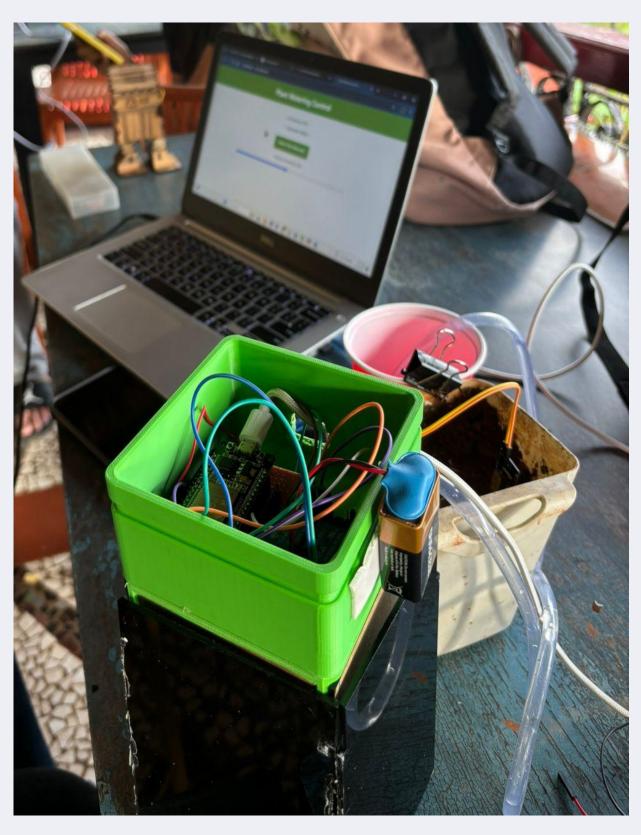
Challenges We Faced



THERAPY SESSION WITH THE MENTORS (TEAM DISAGREEMENTS)

CODE NOT WORKING PROPERLY AFTER SEVERAL DEBUGGING ATTEMPTS





Our Solution: WaterWise



Smart Sensors

Uses soil moisture sensors to measure the moisture levels in soil .



Automated Watering

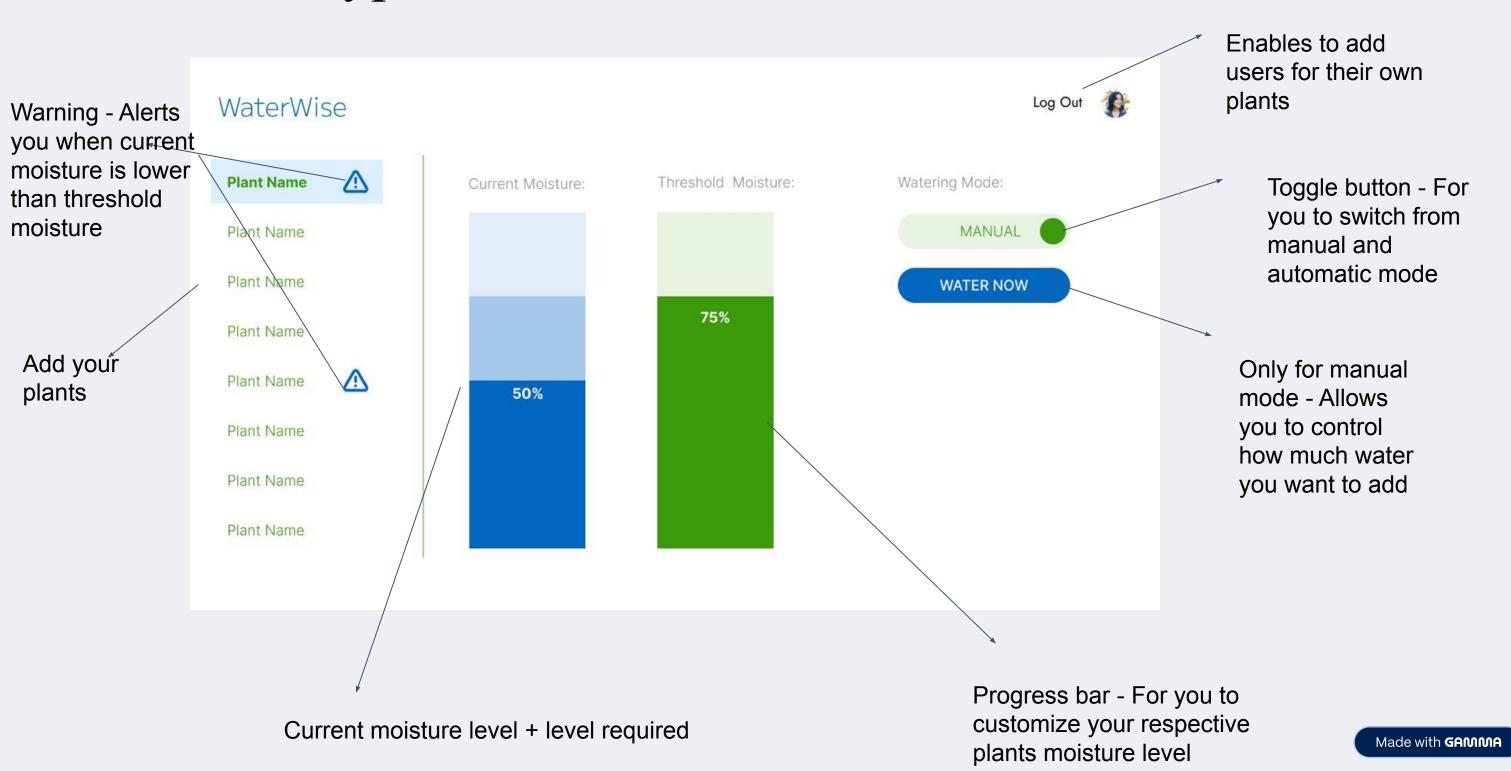
Delivers precise
hydration when
moisture levels go
below the specified
amount.



Mobile App Insights

Sends prompt
reminders to water
the plant or that the
plant has been
watered.

Prototype for how the UI will look + work



Citations

International Journal for Research Trends and Innovation observed that such systems reduced water usage by 40–50%

THANK YOU!