

# The GardenExpert

By:



# Table of contents



01

Problem

02

Research

03

Solution

04

Future





# Our Problem

- Food Waste
- Greenhouses



# Food Waste and Greenhouse Gardening



**30-40%**

Of the food supply is  
thrown out every year



**80°**

Is the average  
temperature of a  
greenhouse



**13%**

Of people in the U.S.  
are food insecure



# More Research

## Food Waste

Most food that spoils, does so because of insufficient storing.

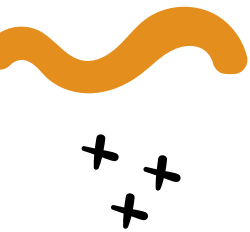
## Greenhouses

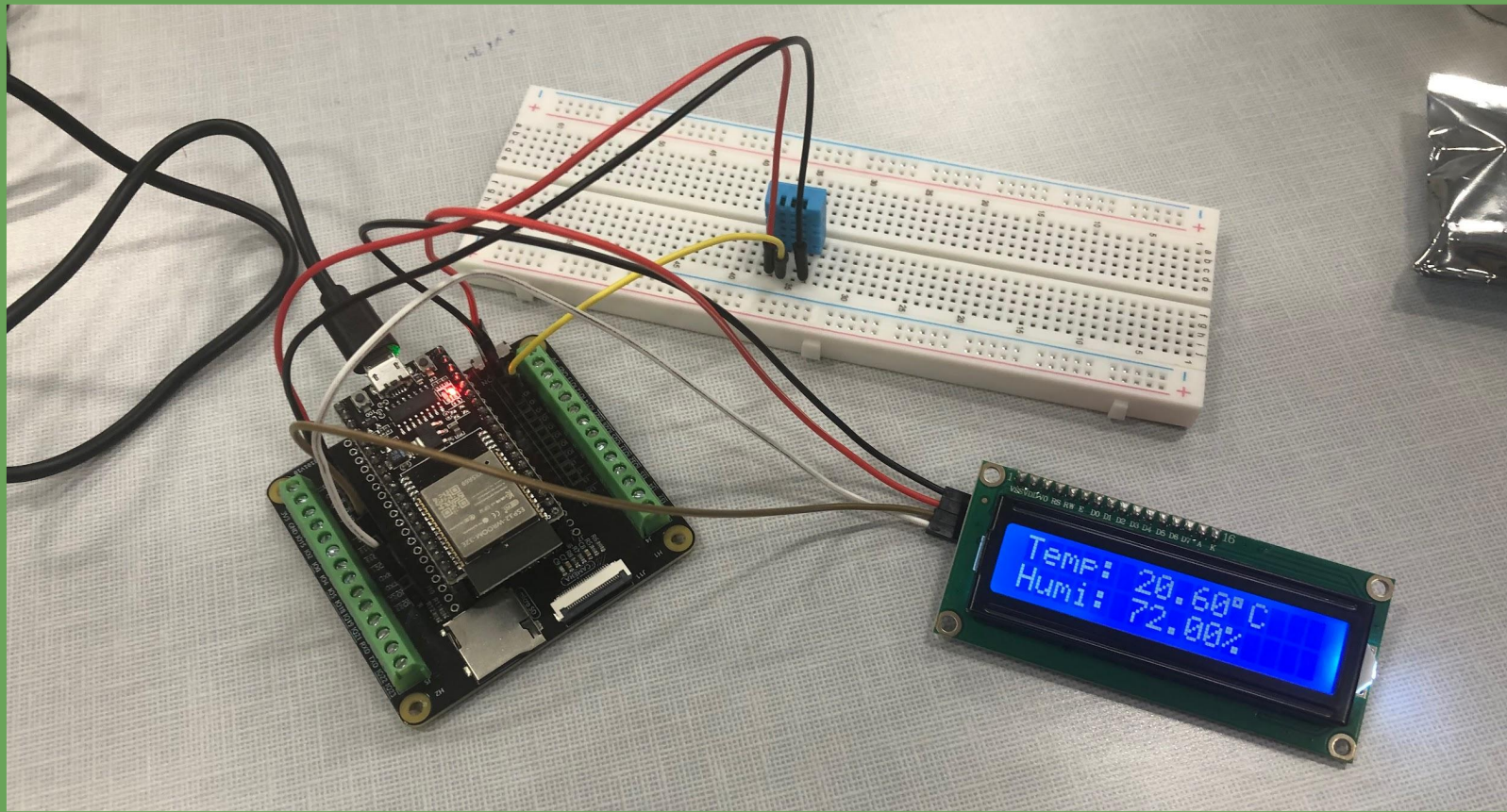
Most plants that die in greenhouses, die do to rapid temperature changes.



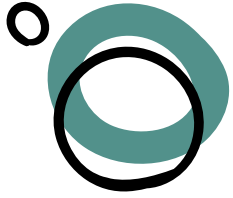


# Our Solution

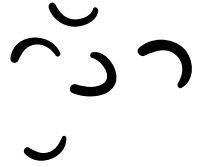








# The GardenExpert



The GardenExpert...

- Measures and displays temperature and humidity every 3 seconds
- Collects all data in a scatterplot
- Graphs the relationship between temperature and humidity

So that our customers can successful preserve food and protect plants.



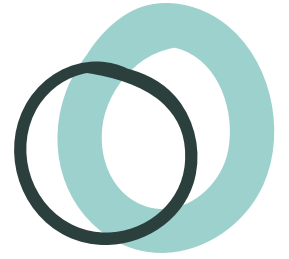


## Application

The GardenExpert can be placed in greenhouses, refrigerators, commercial coolers, and other rooms that need temperature and humidity monitored constantly.



# What's Next?



## Alerts

When temperature or humidity changes

## Water System

Waters plants when humidity levels drop

## Auto-Thermostat

Adjusts thermostat when temperature changes





**Thanks for  
Listening**



