



# Smart Pet Feeder

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AN INNOVATIVE SOLUTION FOR  
AUTOMATIC PET FEEDING

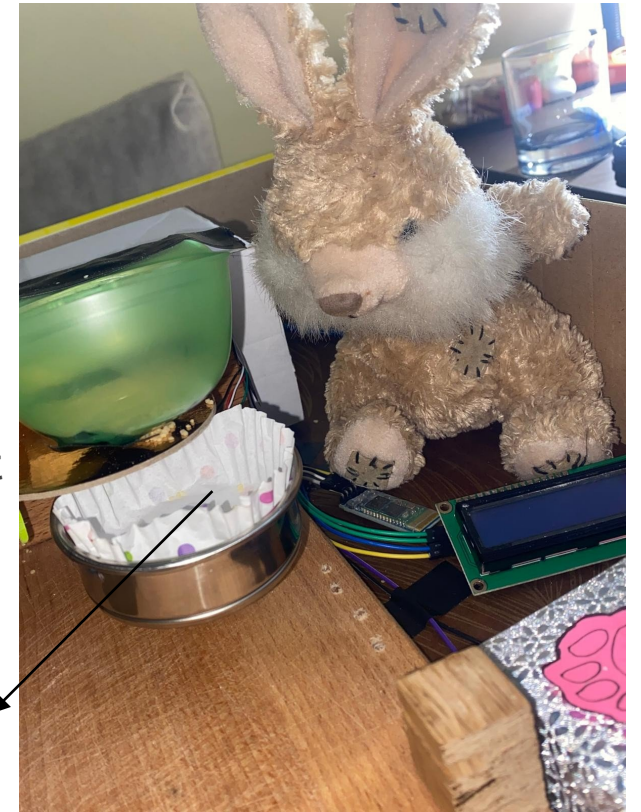
Daboc Ariana-  
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# Introduction & Project Objectives

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- Many pet owners forget to feed pets on time or are away from home.
- Pets can be overfed or underfed without regular schedules.
- **Solution:** Automatic feeder that:
  - ❖ Allow remote and manual control
  - ❖ Control the exact quantity of food the owner want to give to the pet
  - ❖ With the help of the LEDs we know whether the device is working or not
  - ❖ The buzzer alerts us when the device is feeding

Empty bowl, sad bunny



# Components

## ➤ Hardware:

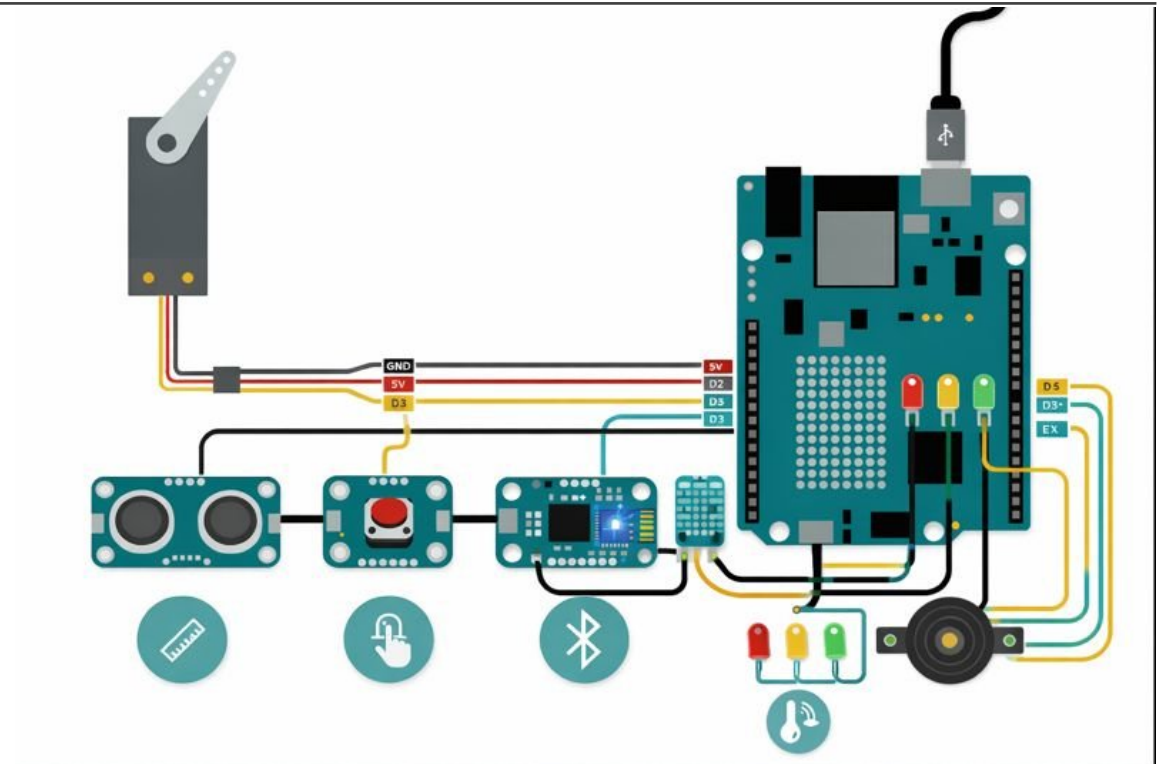
- Food container / hopper
- Motor to dispense food
- Sensors to detect food levels
- Buttons for manual control

## ➤ Software / App:

- Mobile app for scheduling and control
- Notifications for low food

## ➤ Connectivity:

- Wi-Fi / Bluetooth for remote control





# How It Works

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- Motor dispenses food automatically if animal detected
- The load cell weighs 15 grams. When the amount is detected the lid closes.
- To prevent the device from being tipped over once the food is released no matter how many times the animal is sensed for one hour feeding is not possible
- The green LED means that feeding is taking place, and the red LED when it is in standby.
- The display shows the status of the device, i.e. feeding or standby, and also shows the temperature and humidity in the room.
- **Control methods:**
  - From **phone** app
  - From **physical button** on device
  - From **sensor triggers** (e.g., pet detected near feeder)





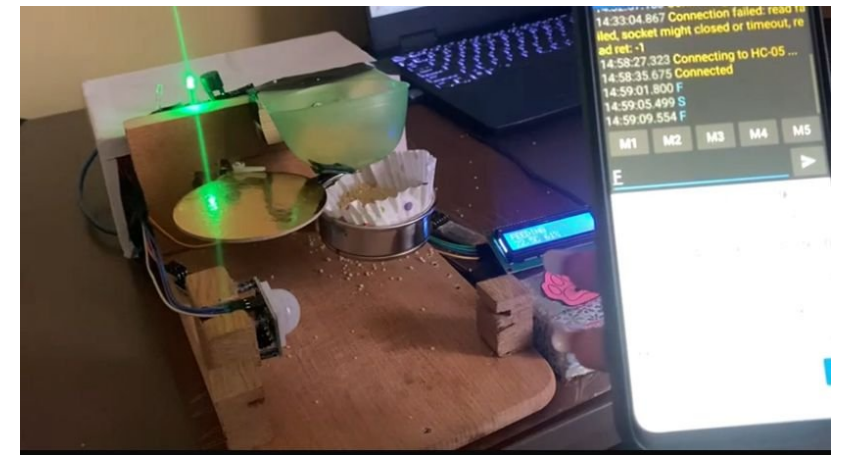
# Functionalities & Advantages

## ➤ Functionalities

- Manual feeding with a button
- Sensor-based feeding (pet presence triggers portion)
- Remote control via phone

## ➤ Advantages

- **For owners:** Convenience, time-saving, peace of mind
- **For pets:** Regular meals, healthier diet
- Easy to clean and maintain



# Conclusion

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- Smart Pet Feeder is a practical and innovative solution for busy pet owners
- Combines automatic feeding, sensors, and mobile control
- Future improvements: video monitoring, treat dispensing, more smart features





# THANK YOU!

