

# IOT BASED SMART WAY OF WATERING PLANTS AND FEEDING PETS

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# AIM, OBJECTIVES & BENEFITS TO THE COMMUNITY

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The AIM of the project is to

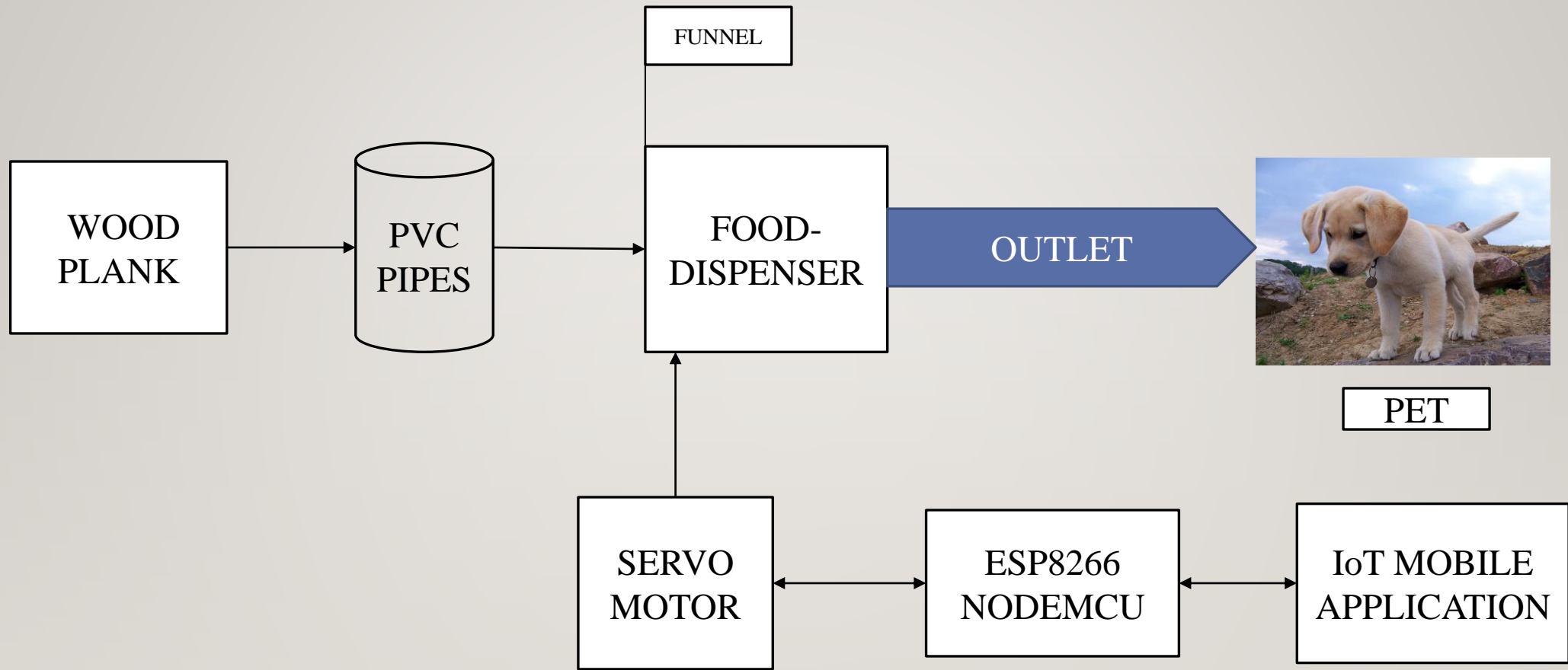
- provide food for the pet in a smart way
- provide water for the plant in a smart way

OBJECTIVES :

- The objective of our project is to design a smart pet feeding machine using IoT.
- It is designed to help all the pet owners to feed their pets remotely and smartly.

BENEFITS :

- Clear to take care of the pets at the shortfall of the owner.
  - Owners will be able to monitor their pet's health condition via consumption of food recorded by the app.
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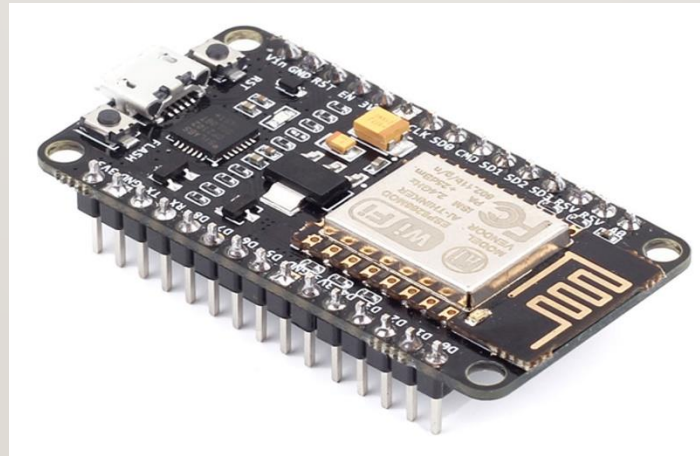


# MODULES - DESCRIPTION

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- ESP8266 Node MCU

Node MCU is a low-cost open source IoT platform. It initially included firmware which runs on the ESP8266 Wi-Fi SoC Espressif Systems, and hardware which was based on the ESP-12 module. Later, support for the ESP32 32-bit MCU was added.

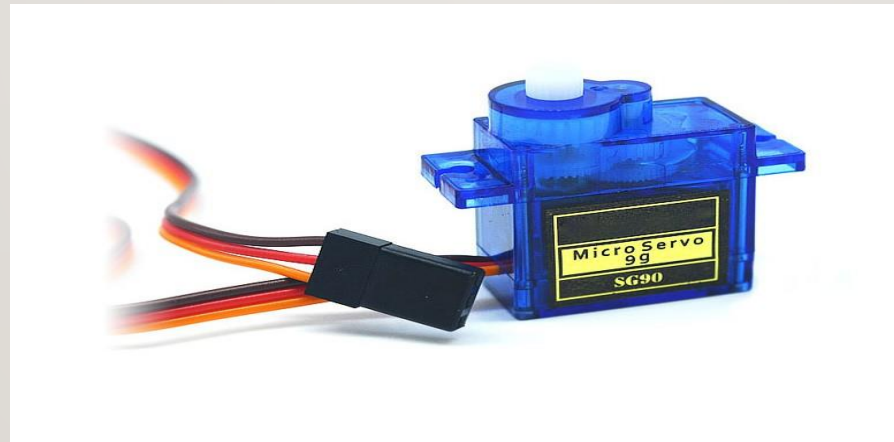


# MODULES - DESCRIPTION

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- Servomotor

A Servomotor (or servo motor) is a rotary actuator or linear actuator that allows for precise control of angular or linear position, velocity and acceleration. It consists of a suitable motor coupled to a sensor for position feedback.



# HARDWARE AND SOFTWARE REQUIREMENTS

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## HARDWARE :

- ESP8266 Node MCU
- Servomotor
- Wood Plank
- Food dispenser
- PVC Pipes
- Funnel
- Mobile phone

## SOFTWARE :

- IoT Mobile Application
- Arduino UNO

# BRIEF METHOD OR ANALYSIS

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- Literature survey about the neighborhood's problems
- Getting an idea about circuit design
- Dividing the system into software and hardware modules
- Developing and executing individual modules
- Testing the design system that includes hardware and software modules
- Combining hardware and software into a system
- Testing the final prototype system
- Modifying the system into a portable gadget



# BUDGET

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The budget causes for this project is:

- NODE MCU = Rs399
- Servo motor = Rs150
- PVC pipes = Rs200
- And some necessities like cardboard, glue, mobile, power bank, data cable and food dispensing jar which can be available in regular.

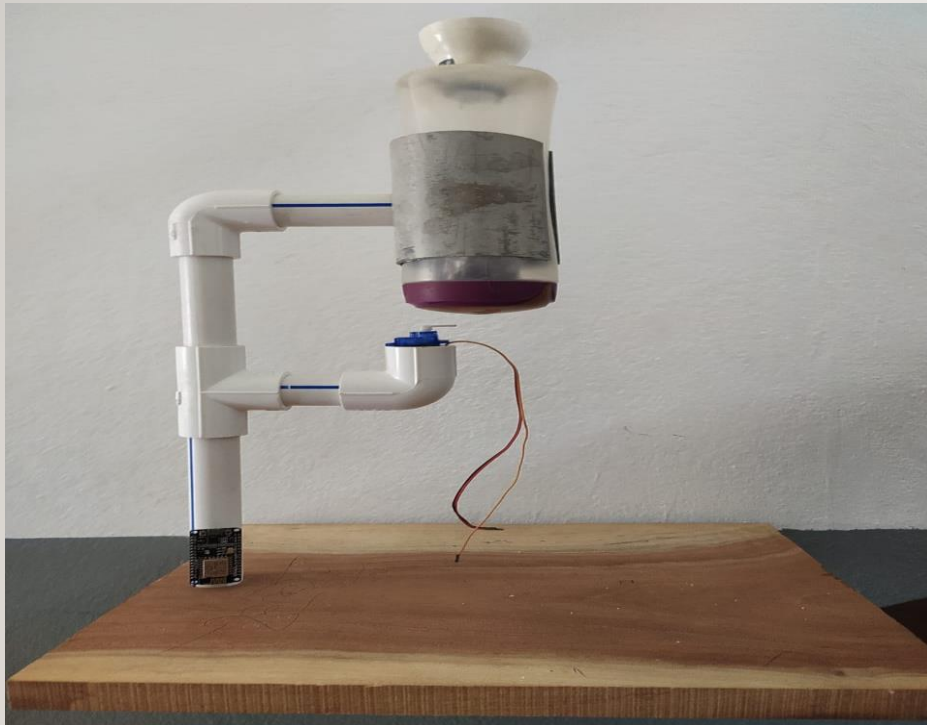
# REFERENCES

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- First we give a signal to the NODE MCU through blynk app, it reaches to the router through wi-fi.
- By this operation the servo motor works and food will be dispensed into the jar for the pet.
- We took reference from some of the websites like IEEE , Google scholar, Elsevier.
- NODE MCU: <https://en.m.wikipedia.org/wiki/NodeMCUthe>
- SERVO MOTOR :<https://en.m.wikipedia.org/wiki/Servomotor>

# PROTOTYPE MODEL

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THANK YOU