IOT BASED PET FEEDER SYSTEM

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ABSTRACT

In this paper a new design of pet feeder is proposed which can be controlled by interactive remote controller which helps to get rid of the manual settings of the previous versions of pet feeder. This design contains many new features as compared to the previous versions. In this design user can adjust the feed time, time gap between consecutive feeds and the quantity of feed served. This design also contains the call for pet at feed time, refill alert, dual power supply with battery charger, Massage alert system for owner in case of pet don't get it's feed, safety lock for container, sensor based system to serve previously served feed in case of left feed and the priority feeder with dual option of serve as by owner can opt for multi time and pet can opt for 1 time between feed time gap.

Keyword : - *GSM, Remote controlled, audio call for meal, dual supply, safety lock*

1. INTRODUCTION

Automated pet feeder is one of the new technologies for feed pet. It will help pet owner to take care of their pet while they are not at home. Even the owners are not at home, they still can feed their pet. Automated pet feeder is built to help pet owner taking care of their pet. Automated pet feeder is one of the pet feeders that will be controlled by a wireless infra-red remote control. The automated pet feeder will be automatically dispenses predetermined amounts of food at the exact times user choose with controlled by a wireless infra red remote control. As pet lovers, user should understand those pets also need a proper diet management. Sometimes, the responsibilities of life inhibit pet owners from properly caring for their pets. Whether user away from home unexpectedly or simply would like one less chore to worry about, user can feel secure that the beloved pet will be cared for and fed on time, every time. Pet care should be fun, not burdensome and so the goal of this project is to assist owner with pet care by providing an automatic pet feeder. The purpose of the project helps the owner of the pet feeding their pet on time even when they are not at home. Other than that, it also can help the owner know the diet of their pet. Knowing the diet of the pet is very important for the owner to make sure that the pet is in good health. This system assist pet owner to feed the pet. The system act in two ways, one is feeding the pet and sends the feeding information to owner. After it feed the pet, the system will stop responding for certain time in order to make sure that the pet do not eat too much.

2. RELATED WORK

Automated pet feeder is one of the new technologies for feed pet. It will help pet owner to take care of their pet while they are not at home. Even the owners are not at home, they still can feed their pet. Automated pet feeder is built to help pet owner taking care of their pet. Automated pet feeder is one of the pet feeders that will be controlled by a wireless infra-red remote control. The machine driven pet feeder will be automatically dispenses predetermined lots of food at the accurate times user choose with controlled by a wireless infra red remote control. As pet lovers, user should understand those pets also need a proper diet management. Sometimes, the responsibilities of life inhibit pet owners from properly caring for their pets. Whether user away from home unexpectedly or simply would like one less chore to worry about, user can feel secure that the beloved pet will be cared for and fed on time, every time.

Dogs care should be enjoy , not burdensome and so the goal of this project is to assist owner with pet care by providing an automatic pet feeder Iot based system. The purpose of the project helps the owner of the pet feeding their pet on time even when they are not at home. Other than that, it also can help the owner know the diet of their pet. Knowing the diet of the pet is very important for the owner to make sure that the pet is in good health. This system assist pet owner to feed the pet. The system act in two ways, one is feeding the pet and sends the feeding information to owner.
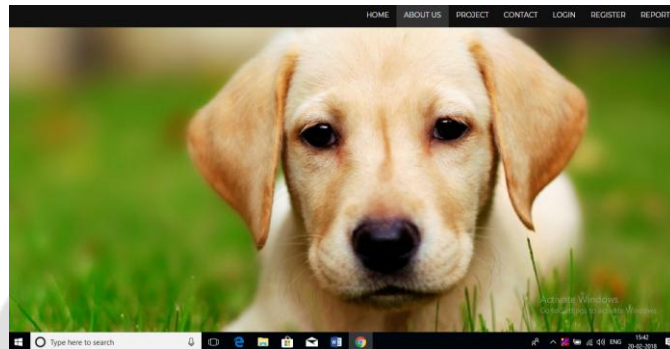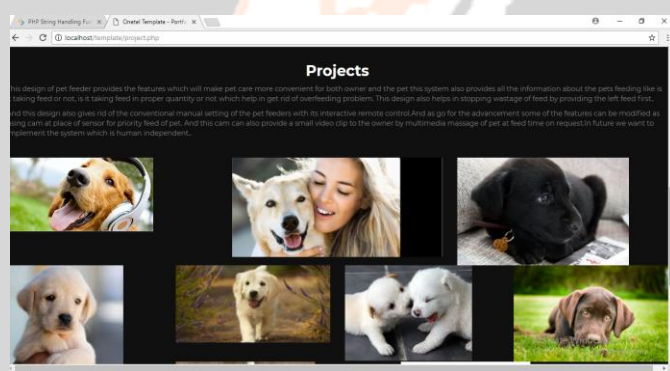

Fig -1: System Overview

Fig -2: System Overview

3. PROBLEM STATEMENT

 Sick pets require special diets and large amounts of time and money Difficult to make sure the correct pet is receiving medication or special food No product on the market to address this issue
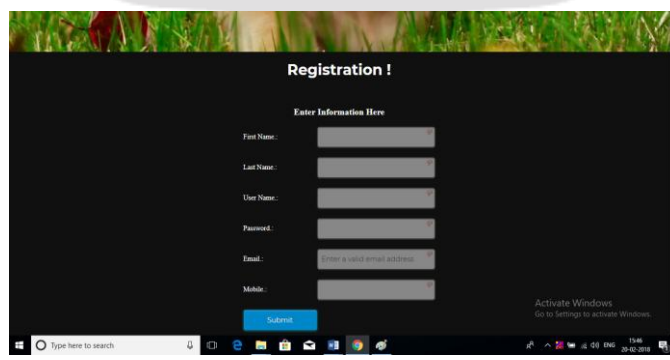

Fig -3: System Overview

4. GOALS and OBJECTIVES

4.1 Goals:

 1. More personalized experience of keeping pets.

 2. No longer need to worry about their pets during business trips or vacations.

 3. No longer need to purchase multiple feeder for multiple pets.

 4.No longer need to worry about the cross--eating between different pets.

4.2 Objectives:

_ 1. Feed time: This time period is defined as the feed time it defines the duration for which bowl left outside for the feed by the system. This time can be adjusted by user using remote
2. Time gap between consecutive feeds This time period is defined as the repeat time it defines the duration for which the system will be at standby mode after serving feed. This time can be adjusted by user using remote
3. The quantity of feed served This feature is defined as the feed quantity it defines the quantity of food which is going to be served in every feed. This quantity can be adjusted by user using remote.
4. Call for pet at feed time This feature is use to call the pet at the time of feed with the owner's voice which is most familiar to the pet even though the owner is not at home. The system will record your voice and use it every time when the feed is going to be served.
5. Refill alert This is refill alert for the owner in case of the container of feed is going to be empty. This will alert to owner by a buzzer and a massage to the owners phone.
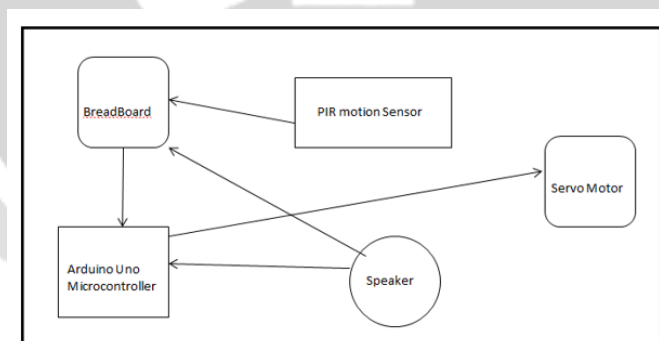

Fig -4 SYSTEM ARCHITECTURE

4. CONCLUSIONS

This design of pet feeder provides the features which will make pet care more convenient for both owner and the pet this system also provides all the information about the pet's feeding like is it taking feed or not, is it taking feed in proper quantity or not which help in get rid of overfeeding problem. This design also helps in stopping wastage of feed by providing the left feed first. And this design also gives rid of the conventional manual setting of the pet feeders with its interactive remote control. And as go for the advancement some of the features can be modified as using cam at place of sensor for priority feed of pet. And this cam can also provide a small video clip to the owner by multimedia massage of pet at feed time on request.

6. REFERENCES

[1]"Perfect Petfeeder Lux Model." Pillar Pet Products, Inc.

[2] "Pet Product Review: Perfect Petfeeder." Itchmo: News For Dogs & Cats.

[3] "ERGO 8 Day Feeder." Pet Street Mall.

[4] "Industry Statistics & Trends". American Pet ProductsManufacturers Association,Inc.

[5] "Do You Like Pets Better Than People?". CBS News.

[6] "The Pet Economy". Business Week

[7] "It's a Pet Economy". Sacramento Business Journal.

[8] "Dog Owner's Guide: Obesity". CanisMajor.com.