

CHAPTER 1

INTRODUCTION

1.1 Background

Dogs are one of the popular pets. To take care the dog, must have a knowledge to do it. Like the activities usually the dogs do in the morning, afternoon etc. Dogs activities like eating twice a day, pup or pee, and get out of the cage to take a walk. The problem is dog owner rarely knows the dogs activities outside the cage besides take a walk. This research project of dogs activities will help the owner to know about the activity of dogs outside the cage without seeing directly.

Based on the problem above, the result obtained from the sensors collected in the database will be analyzed. This project uses a variety of sensors, as the gyroscope sensor is useful to know the activity of the dog standing or sitting, the ultrasonic sensor to find out is a dog in a cage and while the dog is drinking, proximity sensor to know when the dog is eating, and ESP 8266 is a wifi module to upload data to database server. From the sensors will get data to analyze the activity of the dog.

This project uses a microcontroller to control sensor that will be installed in the dog's body.

1.2 Scope

The dog activities detection project has several problem limitations, as;

1. How to installed every system in the dog's body and in the cage so that the sensor data can be read?
2. How does each system work to get data to be analyzed?
3. Does the sensor used can analyzed the dog activity?

1.3 Objective

In this research project using a microcontroller to control the sensors, used to record data from the sensors using sql server that will be analyzed to detect every activity from the dog. From data collection after a certain period of time the data have able to analyze dog activities.

