

## ABSTRACT

The main issue with having cats is their feeding. This happens since many people are busy yet still want to have a cat as it is a low maintenance animal. However, the truth is not quite so simple. In fact, many cat owners are so busy with their activities away from home that they are unable to feed their cats when they are hungry. This study proposes the development of automated cat feeding technologies to address this issue. In this study, the pet feeder will be remotely controlled through Blynk and the website.

This thesis develops an automatic cat feeding tool, website, and Blynk application platform to make feeding cats during peak hours easier. The microcontroller used is based on Arduino and connects to the Blynk platform via mobile devices by downloading apps. Because not everyone can control the usage of a smartphone, the website can also handle this tool via a laptop or personal computer (PC). Both services allow pet owners to remotely regulate meal schedules, food portions to be served, and food supply.

The results showed that the developed application and Internet of Things provide information on pet feeding schedules, which has an impact on controlling cat weight. The technology may then offer information on the amount of food that will be extracted as well as the remaining food that is stored. In TIPHON Quality of Service testing, the throughput results are 48169 bps, indicating it is in the very good category, and the delay is 188.288 ms, indicating it is in a good category.

**Keywords:** automated pet feeding machine, Arduino, Blynk, website, IoT