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Goal

- An occurring problem for big families with pets, is communicating with one another, and our product’s end goal is to simplify this dilemma.
- Our overall team goal is to give pet owners a convenient way to notify whether their pet has been fed or not.

Motivations and Objectives

- Motivations
  - Give larger families a way to notify each other
  - Guarantee that the pet will not miss a meal
- Objectives
  - Create a physical device for families to check status
  - Implement a program that sends out notifications to all family members

Methodology

- Create User-friendly User Interface
- Implement state machine in Python application
- Integrate bluetooth connection from RPi

Results

- RPi User Interface implementation using PyQt5
- Created Android App using Android Studio
- Designed circuit board to power up all components of final product

Acknowledgement

We would like to thank Professor Hana Godrich for offering her professional guidance, as well as Kevin Wine and Rutgers University ECE department for providing us with resources necessary to complete this project

References

[1] https://www.riverbankcomputing.com/static/Docs/PyQt5/

Pet Feeding Notification System

Research Challenges

- Establish bluetooth communication from RPi to Mobile Device
- Concurrently run program with other project components
- Efficiently power up final product

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