AUTOMATED PET FEEDER

PROBLEM STATEMENT

Pet owners often struggle with feeding schedules, especially when they are busy or away from home. Manual feeding may lead to irregular meal times, overfeeding, or underfeeding.

ABSTRACT

This project develops an automated pet feeder that dispenses food at scheduled times and controlled portions. The system integrates IoT technology, sensors, and a mobile application for remote control and monitoring.

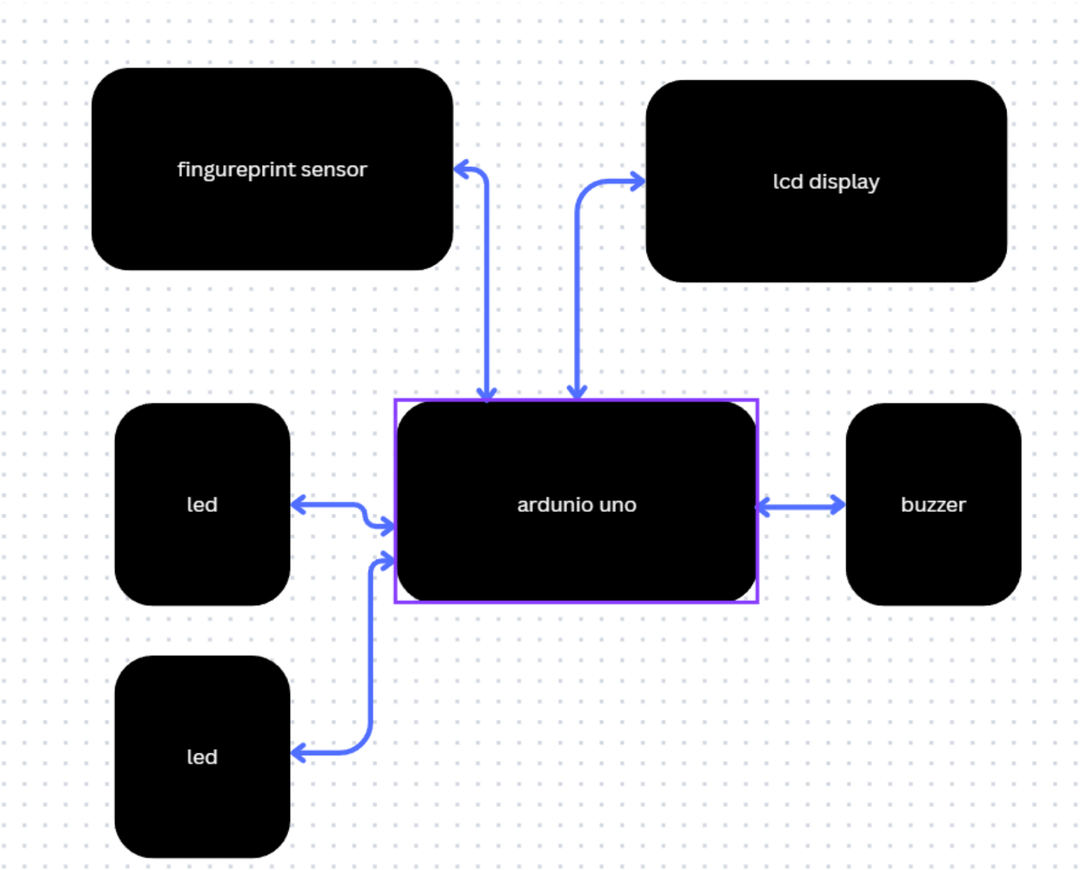
INTRODUCTION

The automated pet feeder ensures pets receive timely and appropriate meals without owner intervention. It enhances convenience and ensures pets maintain a healthy diet.

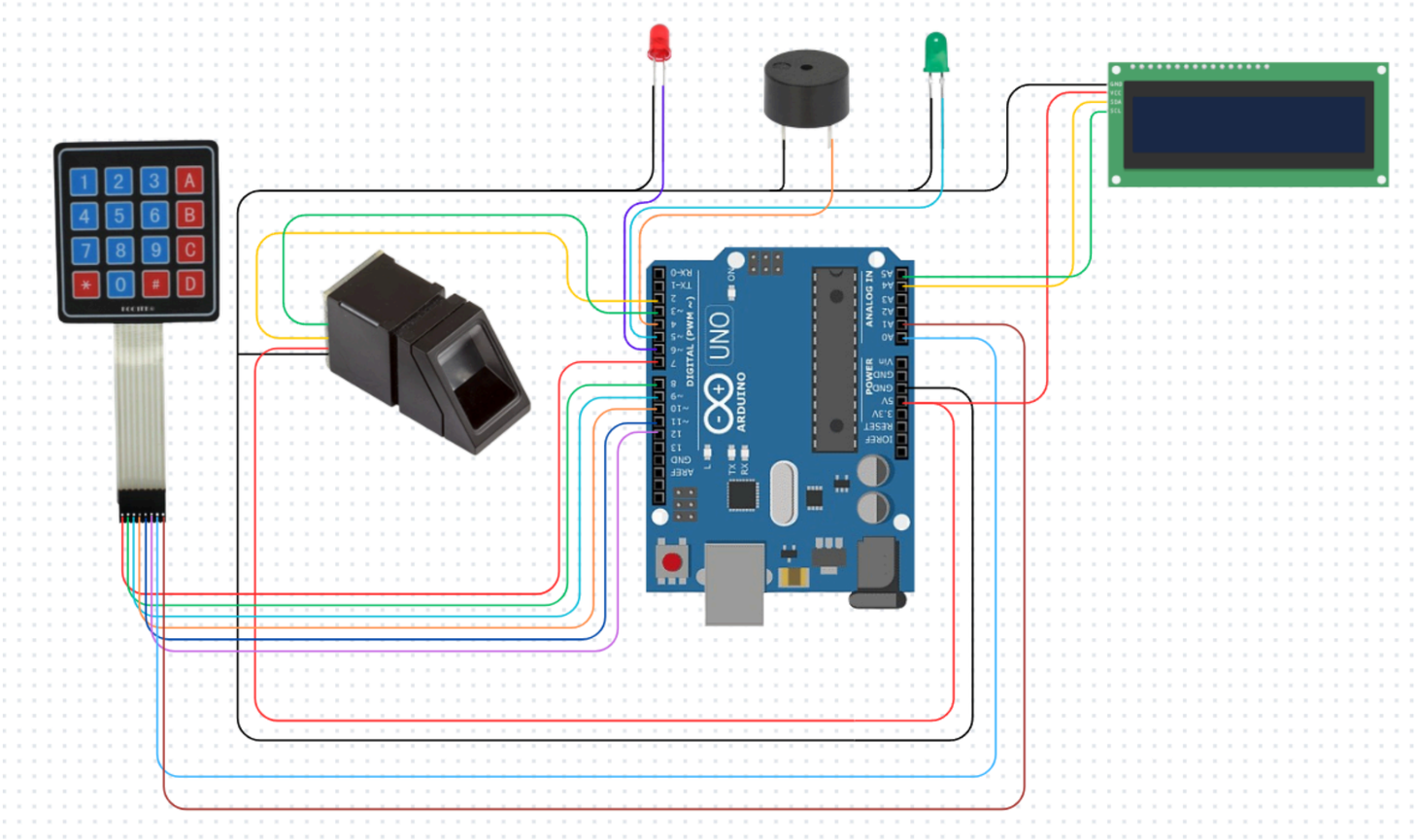
KEY FEATURE

- Scheduled and portion-controlled feeding
- IoT-enabled remote monitoring and control
- Voice command support for hands-free operation
- Food level and pet consumption tracking
- Battery backup for uninterrupted functionality

BLOCK DIAGRAM



CIRCUIT DIAGRAM



USE CASE

- Ideal for pet owners with busy schedules
- Ensures dietary consistency for pets with special needs
- Helps manage pet weight and portion control
- Provides feeding automation for multi-pet households

OUTCOME

- Ensures pets receive food on time, reducing health risks
- Enhances pet owner convenience with automated control
- Provides real-time monitoring for better pet care

CONCLUSION

The automated pet feeder offers a smart, reliable solution for pet owners. Future enhancements may include AI-based portion recommendations, integration with pet health monitoring apps, and real-time video monitoring.