

The Humane Project



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About our Client!



A nonprofit organization focused on animal welfare, based in Athens Georgia.

A mission to rescue, care for, and find loving homes for animals in need.

The county's oldest animal welfare organization, founded in 1989

Over 76,000 lbs of pet food distributed to families in need.



Our Client's Problem



Inventory Management

No formal tracking system for inventory

Inadequate expiration date management

Inefficient distribution of inventory

A current lack of space for their inventory in general



AAHS's Current Storage







Project Goal!

Implement a digital inventory tracking system:

- Provide real time visibility
- Reduce waste (Strict FIFO Policy)
- Improve efficiency

MOV statement:

- To improve the Athens Humane Center's ability to track and manage both donated and non-donated pet food and supplies, with the goal of achieving a 50% reduction in inventory inaccuracies and a 40% improvement in restocking efficiency within six months of implementation.

SOLUTION!!

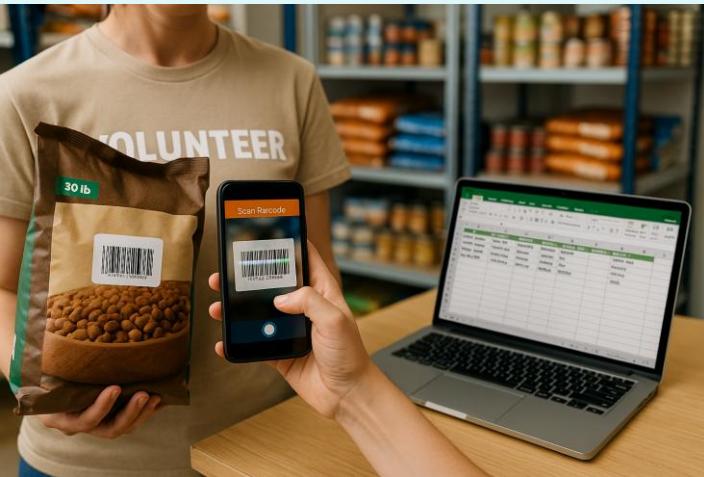
Barcode Scanner + Excel Spreadsheet

- Use mobile barcode scanning app (eg: Scan To Sheets)
- Connect app to cloud-based Excel Spreadsheet
- Scan items during donation intake, distribution, and restocking
- Track key details like: Item Name, quantity, brand, expiration date

How To Implement

- Install barcode scanning app on staff mobile devices
- Connect app to Excel
- Train staff/volunteers on how to scan and update info
- Use excel DashBoard to Monitor

Prototype



Item Code	Item Name	Brand	Quantity	Date Scanned	Scanned By	Expiration Date	Notes
CODE001	Canned Dog Food	Purina	9	04/24/2025	Volunteer B	04/09/2026	
CODE002	Dry Dog Food (Adult, Large Bag)	Blue Buffalo	13	04/24/2025	Volunteer B	02/14/2026	
CODE003	Canned Cat Food	Fancy Feast	23	04/24/2025	Volunteer B	06/27/2025	Expiring Soon
CODE004	Dry Cat Food (Adult, Large Bag)	Meow Mix	25	04/24/2025	Volunteer A	11/29/2025	
CODE005	Cat Food (Kitten)	Whiskas	13	04/24/2025	Staff A	08/07/2025	
CODE006	Wet Cat Food (Kitten)	Friskies	20	04/24/2025	Staff B	04/15/2026	
CODE007	Canned Dog Food	Purina	13	04/24/2025	Volunteer B	10/25/2025	A lot of the other bags were damaged
CODE008	Dry Dog Food (Adult, Large Bag)	Blue Buffalo	15	04/24/2025	Staff A	01/15/2026	
CODE009	Canned Cat Food	Fancy Feast	18	04/24/2025	Volunteer B	03/06/2026	
CODE010	Dry Cat Food (Adult, Large Bag)	Meow Mix	22	04/24/2025	Volunteer A	07/17/2025	
CODE011	Cat Food (Kitten)	Whiskas	6	04/24/2025	Staff B	08/19/2025	Running Low on qty order more

Storage solution

Shipping Container + Forklift

- Position the container on-site
- Organize inventory by category
- Use the forklift to move items in and out of the container (No certification required)

Implementation

- Purchase Shipping container and forklift
- Label storage zones
- Train staff/volunteers
- Incorporate with digital inventory system





Project Stakeholders

People	Role/Responsibility	Influence	Impact
Student Project Team	Executes most of projects and creates project foundation	High	High
Staff & Volunteers	Provides insights & tests solution	Medium	High
Professor	Oversees academic alignment and grading	High	Low
Technology Advisory Contact	Provided inventory insights and tools from past experience, shaping our design approach. (Zebra thermal printer)	Medium	Low
Donors	Community members whose donations affect inventory	Low	Medium

Our Project's Scope (Specification)

Develop a feasible inventory management system

Create a training plan for staff & volunteers

Explore storage expansion options



Possible Constraints:

- Limited funding for software
- Heavy reliance on staff training

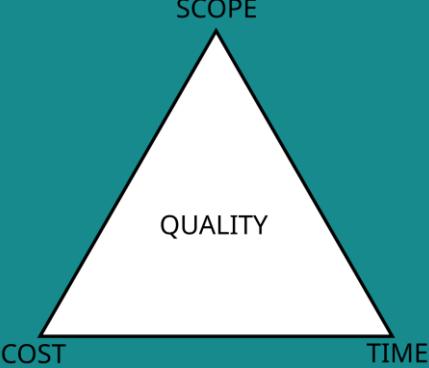
What's Not in the Project?



This project will not focus on processes related to:

- Pet adoptions
- Fundraising
- Employee & volunteer database/ scheduling
- Financial planning/ budget
- Athens Humane Society Food Drive





Triple Constraints- Time

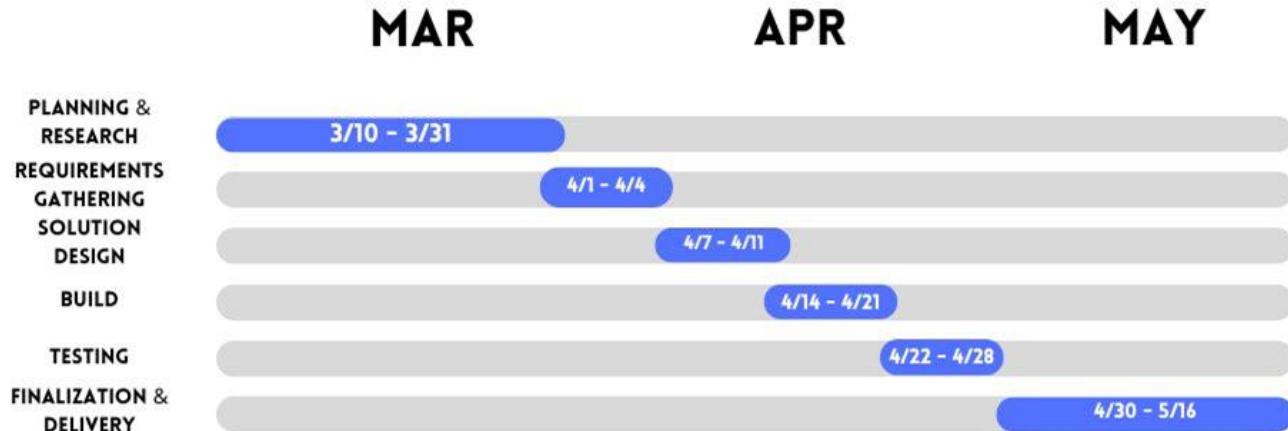
- **Fixed Timeline**
 - Project Kickoff : March 10th
 - Deadline : May 6th (Deliverable), May 16th (End of handover)
 - Duration: 10 weeks total, no extensions
- **Time Risks**
 - Delays in communication / scheduling with client
 - Limited time for deep technical development / troubleshooting
 - Potential for “crunch time”





Gantt Chart

GANTT CHART



Triple Constraints- Cost



Labor Hours

\$0

Student labor not billed



Technology

\$0

Excel, Google Forms/Sheets, Mobile Barcode Scanner – all free via UGA



(Optional) Equipment / Software

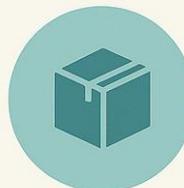
Barcode scanner, tablet, label printer
(future add-on)



Training Materials

\$50

Printed guides and training for staff



(Future) Shipping Container

\$2,000-\$3,500

Secure external storage solution



Non-Certified Forklift

\$800-\$1,200

Electric pallet jack for moving pet food

Resources Required

01 Technology

- ✿ Excel/Google Sheets for tracking inventory
- ✿ Mobile apps (e.g.. Scan to Sheets, Inventory to Barcode)
- ✿ Barcode scanner for future enhancement (e.g., ScanAvenger)

02 Facilities

- ✿ Athens Humane Center: Main storage & garage
- ✿ Future: Shipping container to handle overflow
- ✿ UGA workspaces for team collaboration

03 Other Resources

- ✿ Training materials: quick-start guides for staff
- ✿ Project templates: risk log, issue log, etc. (provided by professor)

Risk and Risk Management



Risks

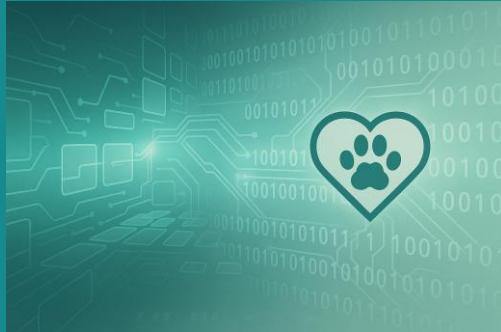
1. Staff Resistance to System Use
2. Overflow in storage
3. Device failure
4. Data entry errors



Mitigations

1. Provide one-on-one support, & Training implementation tasks
1. Alert volunteers to redirect extra to shipping container
2. Provide emergency paper log and excel spreadsheet as fallback
3. Perform monthly audits and inventory check

Artificial Intelligence tools used



ChatGPT, and Microsoft Pilot was used to

- Generate inspiration and ideas during the brainstorming phase
- Helped plan implementation using barcode scanning + Excel
- Created visuals and diagrams used in the presentation
- Drafted and refined content for project deliverables

Any Questions?

