



BELIZE CATTLE TRACKER

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OVERVIEW

When purchasing meat produce at a grocery store, buyers frequently inquire about the freshness of the product and why some meat products cost more than others. Due to this, we wish to distinguish ourselves from the rest of the meat processing enterprises in Belize by giving our customers an insight of the grade and quality of the product they're buying, ensuring convenience and consistency.

The Belize Cattle Tracker will be able to:

- Assist with the maintenance of cattle information.
- Provide an overview of different cattle profiles stored on the system.
- Allow for quality control of the meat produce.
- Supply customers with access to useful information based on the origin of where the meat produce came from.
- Allow for farmers, slaughterhouse managers, and packaging managers to enter in the designated information for a cattle profile.

Implemented Features

- Implemented the main UI screens of the Use Case platforms.
 - They are not connected to the database as yet.
- Instead, more simplified screens were created to serve as assistance with the database connection for the unit testing.
 - These screens assisted with informing the programmers about whether or not the information was read and written to the database.



Screens created to assist in Unit Testing

| Product Weight | Batch Number | Cost Per Unit | Expiry Date | Factory Destination | Factory Name | Meat Product Type | Package Date | Product Description | Product Weight | Store Location | Store Name | Trace Number | Trade Details |
|----------------|---------------|---------------|----------------|---------------------|--------------|-------------------|---------------|---------------------|----------------|----------------|------------|--------------|---------------|
| Cattle Id: | Batch Number: | Cost Per Unit | Expiry Date | Factory Destination | Factory Name | Meat Product Type | Package Date | Product Description | Product Weight | Store Location | Store Name | Trace Number | Trade Details |
| 6 | 123 | 12.312 | April 30, 2022 | Spanish Lookout | Running W | Ribs | March 1, 2022 | 10% lean | 12 lbs | Belmopan | Luckys | 35 | cash |
| Cattle Id: | Batch Number: | Cost Per Unit | Expiry Date | Factory Destination | Factory Name | Meat Product Type | Package Date | Product Description | Product Weight | Store Location | Store Name | Trace Number | Trade Details |
| 35 | 123 | 12.25 | April 30, 2022 | Spanish Lookout | Running W | Ribs | March 1, 2022 | 10% lean | 12 lbs | Belmopan | Luckys | 35 | Cash |

| Factory Destination | Factory Name | Slaughter Date | Slaughter Method | Traceability Number | Add Slaughter Info |
|---------------------|---------------------|----------------|------------------|---------------------|---------------------|
| Cattle Id: | Factory Destination | Factory Name | Slaughter Date | Slaughter Method | Traceability Number |
| 6 | Spanish Lookout | Running W | March 1, 2022 | Stunning | 6 |
| Cattle Id: | Factory Destination | Factory Name | Slaughter Date | Slaughter Method | Traceability Number |
| 35 | Spanish Lookout | Running W | March 1, 2022 | Stunning | 35 |

| Antibio | Breed | Gender | Weight | DNA | Tag | Farmer | Location |
|--------------|-------------------|---------------------|---------------|--------------------|-----------------|--------|--------------|
| Health Issue | Rearing Type | Reproduction Status | Create Cattle | | | | |
| Cattle Id: | Breed | Gender | Weight | DNA | Tag | Farmer | Location |
| 35 | medicine Hereford | female | 300 lbs | Hereford 12344 bob | Spanish Lookout | none | Free roaming |
| Cattle Id: | Breed | Gender | Weight | DNA | Tag | Farmer | Location |
| 9 | medicine Hereford | female | 300 lbs | Hereford 12344 bob | Spanish Lookout | none | Free roaming |

THE CLIENT



BAHA

The Belize Agricultural Health Authority, better known as BAHA, is a statutory body designed to modernize the Agricultural Health Services in Belize. Their mission is to provide an optimum, competent and professional service in terms of Food Safety, Quarantine, Plant and Animal Health.

With the Belize Cattle Tracker, BAHA will trace cattle origins and the processing stages of the product to ensure that only the best and most safe products are on the market.

They will also be able to generate reports based on specific fields like the cattleID.

Users of the System

FARMERS

The system will allow farmers to disclose critical information for each animal sold, such as the animal's date of birth, breed, etc

CUSTOMERS

Customers can access cattle information such as the cattle's date of birth, breed, weight, feed type, health history, origin (farm), grade, and price of the meat.

BAHA

This system will enable BAHA to construct a cattle profile for each individual cattle that the farmer has registered with BAHA.

PACKAGING MANAGERS

Packaging managers will ensure that the meat products are appropriately wrapped and that all packaged meat information is captured and preserved on the system.

SLAUGHTERHOUSE MANAGERS

The slaughterhouse managers are responsible for killing and sanitizing the meat that they get from the farmers. This process should be carefully documented by the employees as they will be responsible for keeping track of each animal.

Plan of Development/Implementation (for remaining of the semester)

The group has already begun working on what's next. The next step would include creating, designing and implementing screens and functionality for:

- An interface where farmers can only view their created cattle profiles.
- A better filtering system for BAHA so that they can filter out and generate reports based on different things such as DOB of cattle, farmer name, etc. instead of just by cattleID.
- An implementation of the non-functional requirement where farmers, slaughterhouse managers, and packaging managers get terminated from adding new information to the cattle profile after the cattle/produce is handed off to the next stage.
- We also plan to fully implement the priority UC screens with a database connection.