

College of Computer and Information Science Mapúa Malayan Colleges Mindanao General Douglas, MacArthur Highway, Matina, Davao City

In Partial Fulfillment of the Academic Requirements for the Subject CS107P: Information Management

Presented By:

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Presented To: PROF. MARTZEL P.BASTE

Chapter 1 Introduction

Project Context:

The business that I'll be tackling is MetaFarms Which is a business that is run by my cousin. It's a new and growling livestock business that sells livestock through various means like Facebook Marketplace. Its relatively still small as it is a Backyard producer of livestock. They breed the livestock, which is currently just chicken and pigs, while keeping track of its health and type of feed. If one of the livestock is sick it could cause a chain reaction and affect the rest of the livestock. They also must keep in mind the gender of the livestock as each gender has a specific purpose and the amount of intake a livestock must have in relation to their Age.

In my interview they have an efficient way of keeping track of their sales as they have experience on that field. Though they have very efficient sales tracking, they have a hard time processing the details of the livestock like the feeds of each specific animals and how much intake they should do in relative to their age. The nature of the business relies on these factors as one wrong move could cost them a lot.

Project Goals and Objectives:

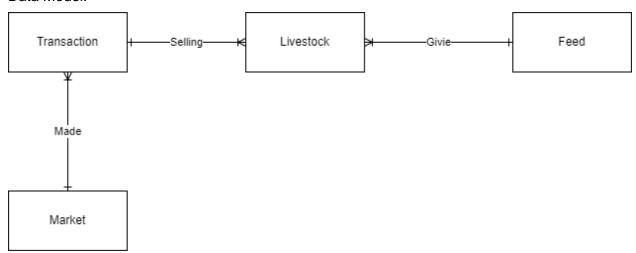
- To provide a reliable way to keep track of specific feed type of the animal.
- To provide a way to keep track of the transaction and the animal due to the nature of The business.
- To provide a seamless experience in reviewing all the data of the business.

Chapter II: Data Collection and Analysis

Business Rules:

- A. Livestock have a determined gender and race.
- B. A livestock feed have a designated brand and their age use.
- C. A Livestock's age must have its level of intake that is dependent on the band of the livestock feed.
- D. A livestock must only have one gender.
- E. A livestock must only have one feed and one feed must be fed to plenty of livestock.
- F. A livestock must only have one buyer and one buyer can buy plenty of livestock.
- G. A transaction must be made in one market and one market can have multiple transaction.
- H. A transaction must have a date when it was done.
- I. A livestock must have a specific price per pound.

Data Model:



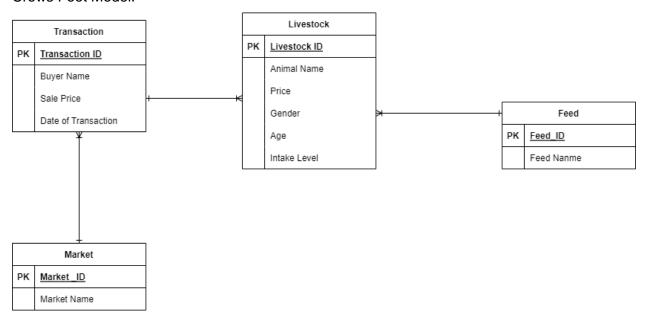
Documentation Images:





Chapter III: Database Design

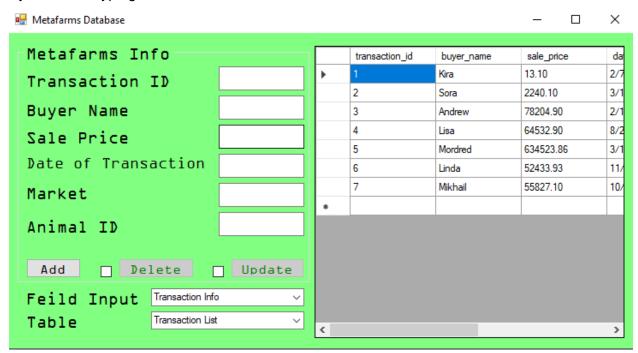
Crows Foot Model:



Data Dictionary:

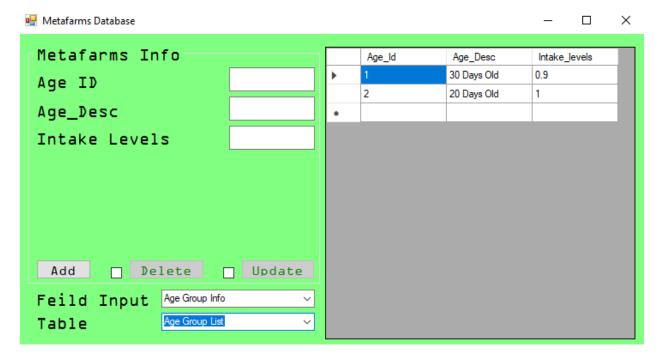
```
MariaDB [metafarmsdb]> desc age_group;
                            | Null | Key | Default | Extra |
               Type
 Age Id
               | int(8)
                            NO
                                    PRI
                                         NULL
               varchar(30)
 Age Desc
                            NO
                                          NULL
 Intake_levels | varchar(50) | NO
                                         NULL
3 rows in set (0.010 sec)
MariaDB [metafarmsdb]> desc animal_type;
 Field
             Type
                          | Null | Key | Default | Extra |
 Animal ID
                                  PRI | NULL
             int(8)
                           NO
                          NO
 Animal Name
             varchar(50)
                                       NULL
 Price
Feed_ID
             varchar(50)
                          NO
                                        NULL
             int(8)
                           NO
                                  MUL
                                      NULL
 Gender Id
             | int(8)
                          NO
                                 MUL NULL
5 rows in set (0.019 sec)
MariaDB [metafarmsdb]> desc feed type;
 Field
           Type
                        | Null | Key | Default | Extra |
 Feed ID
           | int(8)
                        NO
                                PRI |
                                      NULL
 Feed name | varchar(50)
                         NO
                                      NULL
 Age_Id
           int(8)
                        NO
                                MUL | NULL
3 rows in set (0.019 sec)
MariaDB [metafarmsdb]> desc gender;
 Field
             Type
                          | Null | Key | Default | Extra |
 Gender ID
             | int(8)
                                  PRI | NULL
                          NO
                                      NULL
 Gender Name | varchar(20) | NO
 rows in set (0.020 sec)
```

System Prototyping:

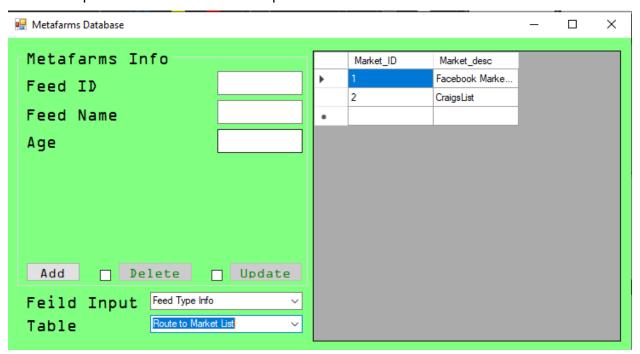


This is the general look of the application. Its compact with all the functions available.

The right side contains the tables while the left side contains all the input field. Below contains a dropdown box that sets the visibility of the input field and table. In the picture above it is set to a default which is 'Transaction Info' and 'Transaction List' which will display a joined table with all the data on the right and on the left it shows the all the input field that is necessary to fill up the transaction table



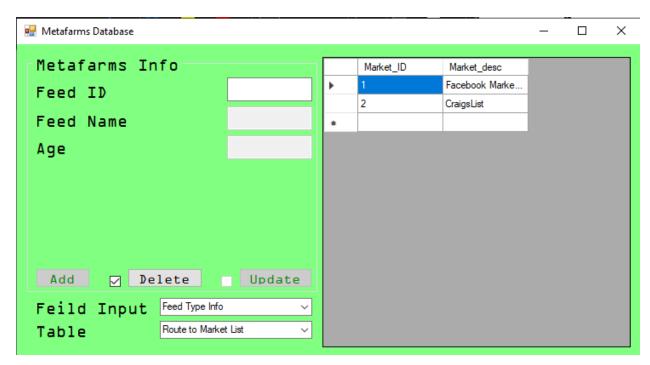
And on the picture from the previous page, I changed the option to the table Age Group and shows the table's data and its necessary input fields. Though it does not need to match both field input and table as seen on the picture below.



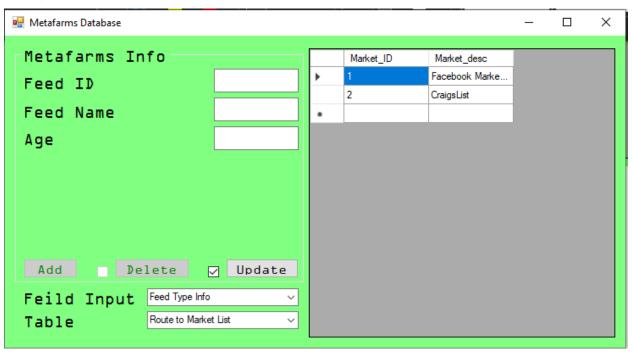
In this picture it is shown that the field input is for Feed Type while the table displays the Route Market. This is designed to cross reference a specific data in any table to input in the field as, beside the or primary key id, the field of the foreign key id will specify a name or a variable instead of an Id.

The buttons Add, Delete, and Update will only be available for only one type at a time. So the Add and Delete button cannot be pressed at the same time. To activate each button, the user must check the checkbox beside the function that they wish to do with the exception of add as it needs no checkbox to be able to use as shown in the example bellow:

For delete



For Update



Circum Vitae:



Deus William B Carino

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Personal Statement:

An individual who is intrigued and passionate for the future of technology and advancement of the digital world. Proficient in multiple programing languages and aiming to master all of it. Fluent in English and capable of connecting with coworkers to ensure efficiency.

Key Skills

Technical

- I have worked with a group of people to create a video game, specifically a visual novel. with me as the one who coded the game.
- I have helped created assets like character design and background art.
- I can work efficiently with Microsoft Word, Excel, Spreadsheet, and PowerPoint as I have used these tools to plan and manage information regarding my solo project in creating my own video game.

Interpersonal and Social

- I am open minded as I can work will different kinds of people and adapt to their flow to be able to work together effectively
- I am a calm person and does not go into fights as I am a firm believer of taking things
 over
- I am proficient in English in a conversation level as I have graduated my high school education abroad.

Organizational and Administrative

 I have been in the position of leadership in plenty of group subjects like a thesis during my education.

- I can accurately know the limitations of a person's capability and assign them a task they can achieve.
- I can distribute work evenly as everybody will be able to contribute to the work. No one will work more than necessary

Educational Attainment

2021-2025 Bachelor of Computer Science

McArthur Highway, Matina, Davao City

Malayan Colleges Mindanao

Work Experience

2023 Walgreens

33 Woodchuck St, Trenton, NJ

Customer Service

Character References

- Mary Grace Sandoval mgsandoval@mcm.edu.ph Malayan Colleges IT instructor
- Zed Errol Elaba zederrol@gmail.com Zirche Cricle Group Leader

Actual Program Application

