

USER GUIDE

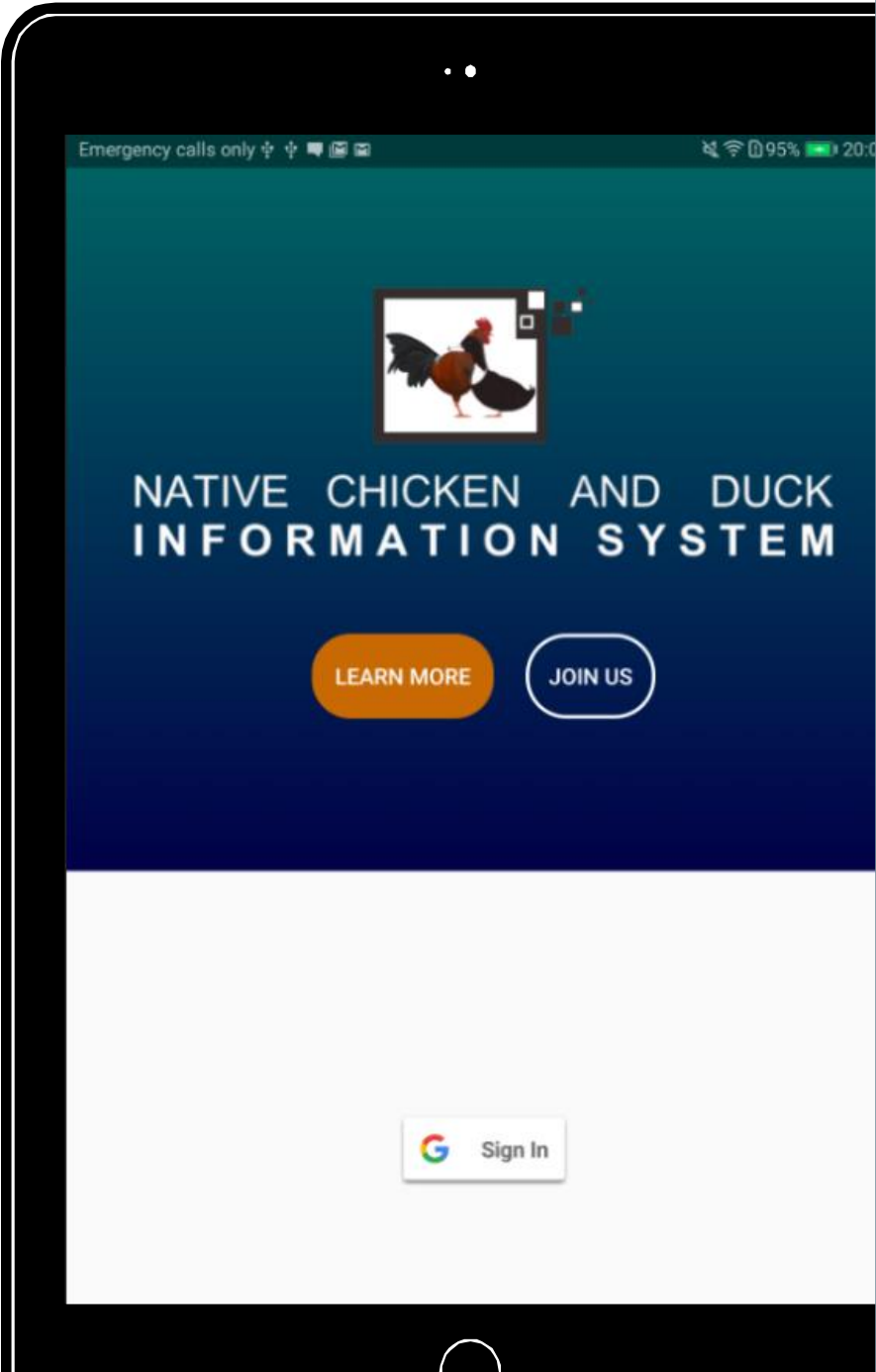
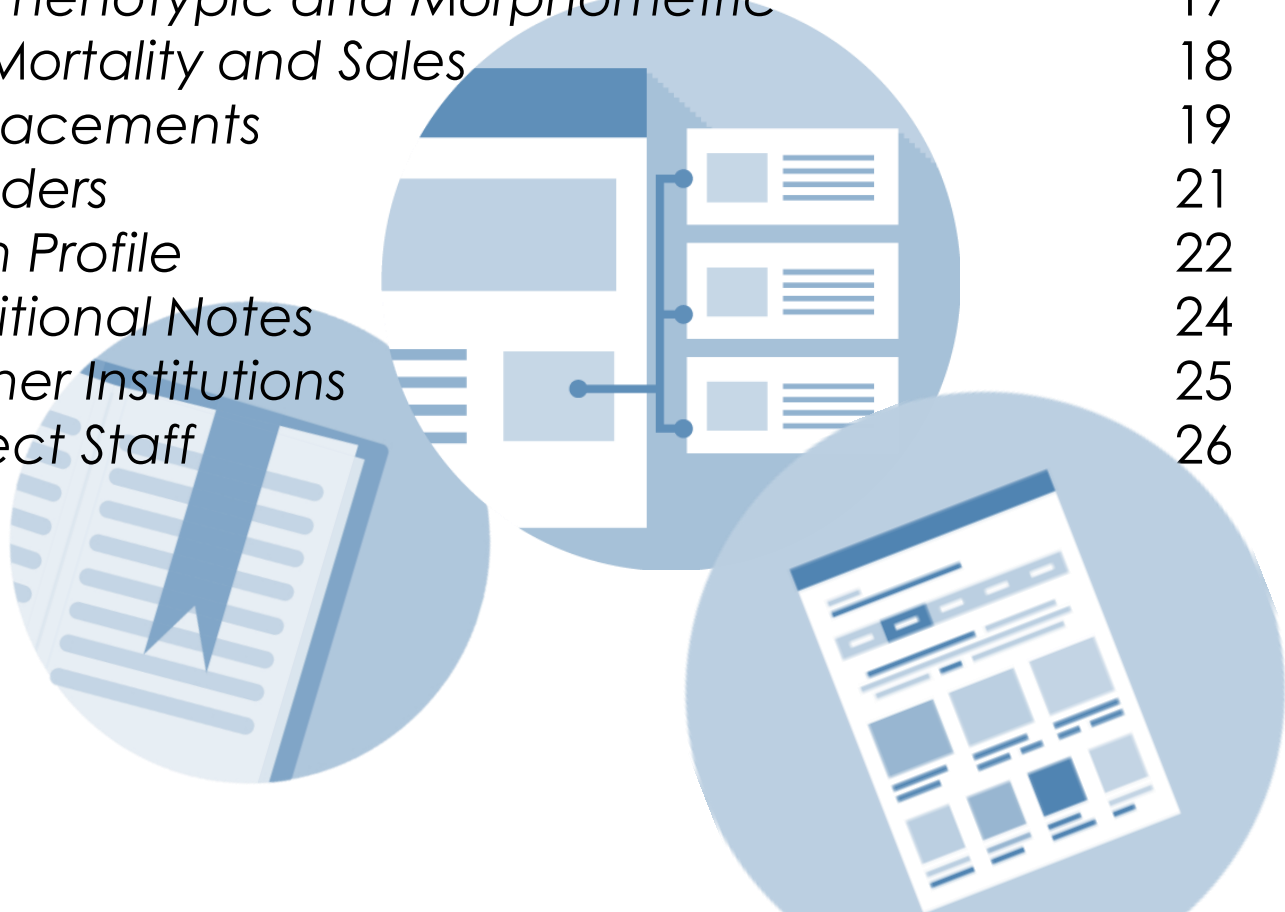
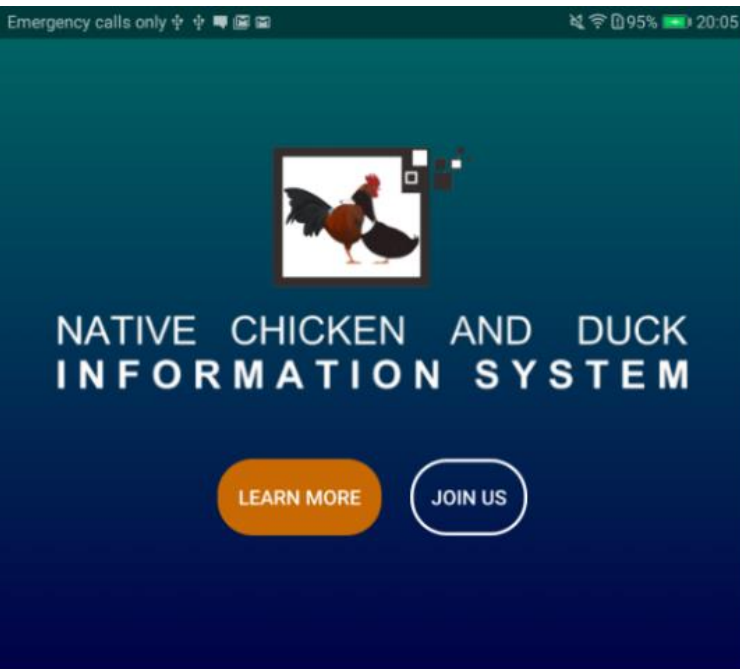


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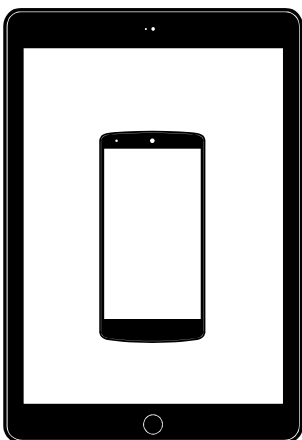
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HOMEPAGE

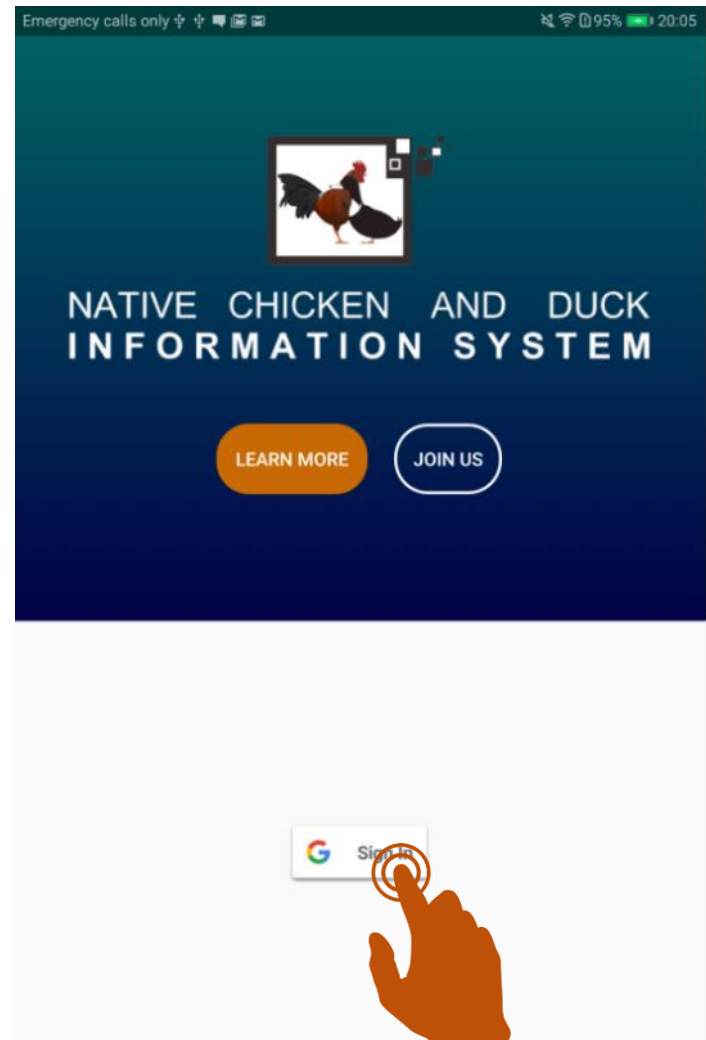


For the farms that were already registered in the Native Chicken and Itik Pinas Breed Information System web application through the DOST-PCAARRD, they can already use the mobile application. Unlike the web application which helps in generating several reports, the mobile application counterpart was developed for recording purposes only. The Native Chicken and Itik Pinas Breed Mobile Application is offline-able which makes recording easier. This was designed to help farm staffs record directly to the system. The data entered using the mobile application will reflect in the web application when the device is connected to the Internet. The image on the left shows the homepage of the mobile application. It contains the logo of the Native Chicken and Itik Pinas Breed Information System and a button which redirects the user to the login page.



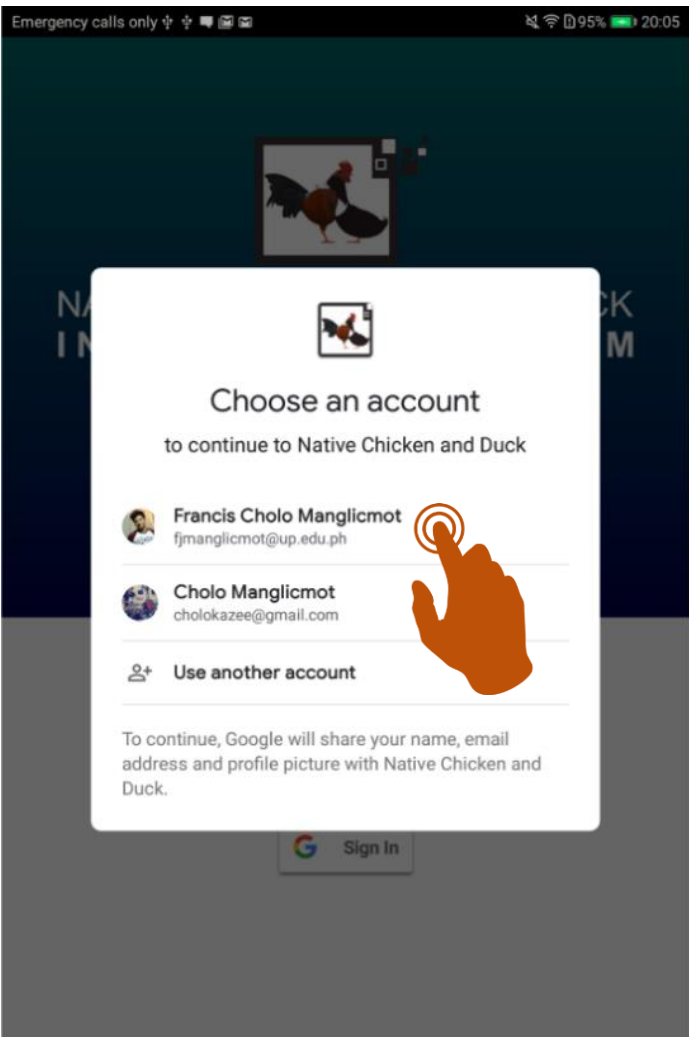
The mobile application can be installed in Android phones or tablets.

LOGIN PAGE

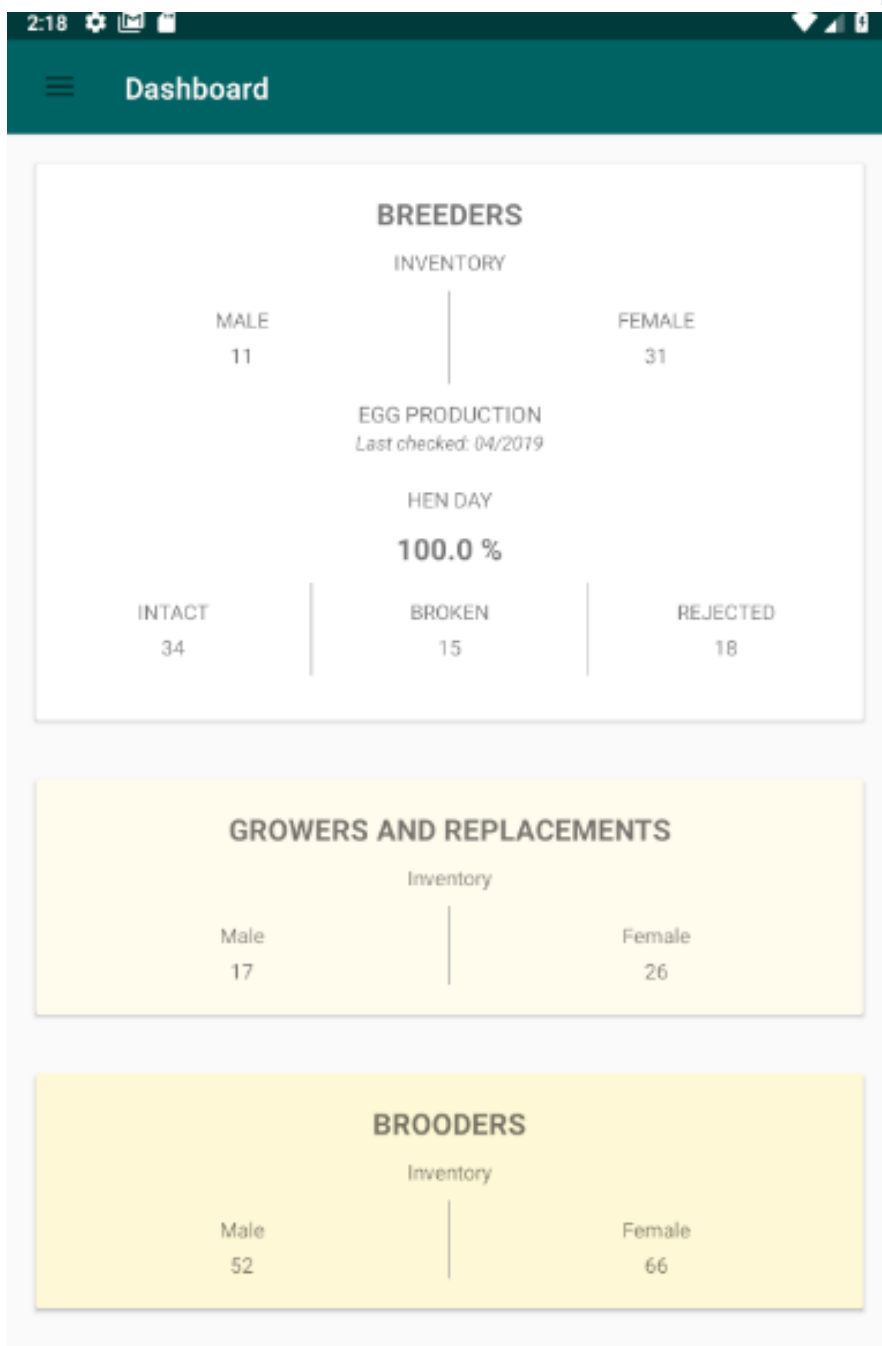


To login, the user will just tap the account he/she is going to use as shown in the image on the right. Upon tapping, the user will be redirected to the dashboard. It is important to login first before going to the farm to record the data for the day.

The mobile application, like the web application, uses login via Google. The user shall use the same account he/she uses when logging into the web application. Upon tapping the “Sign In” button, as shown in the figure on the left, a dialog box will appear like in the image below.




DASHBOARD

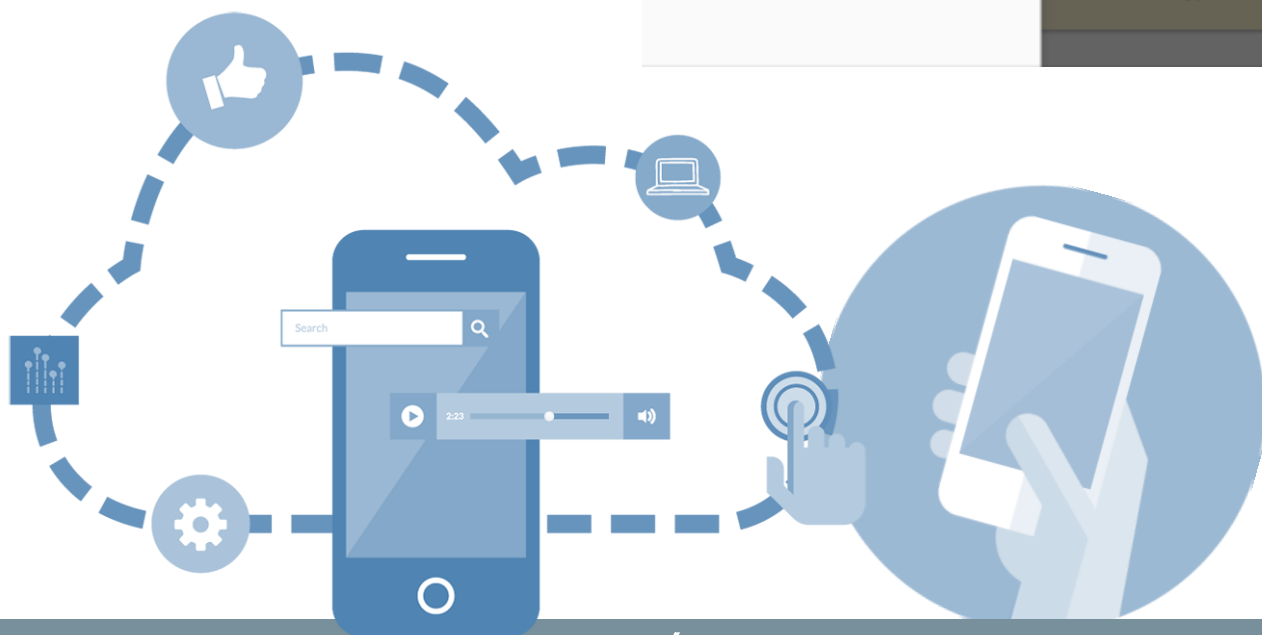
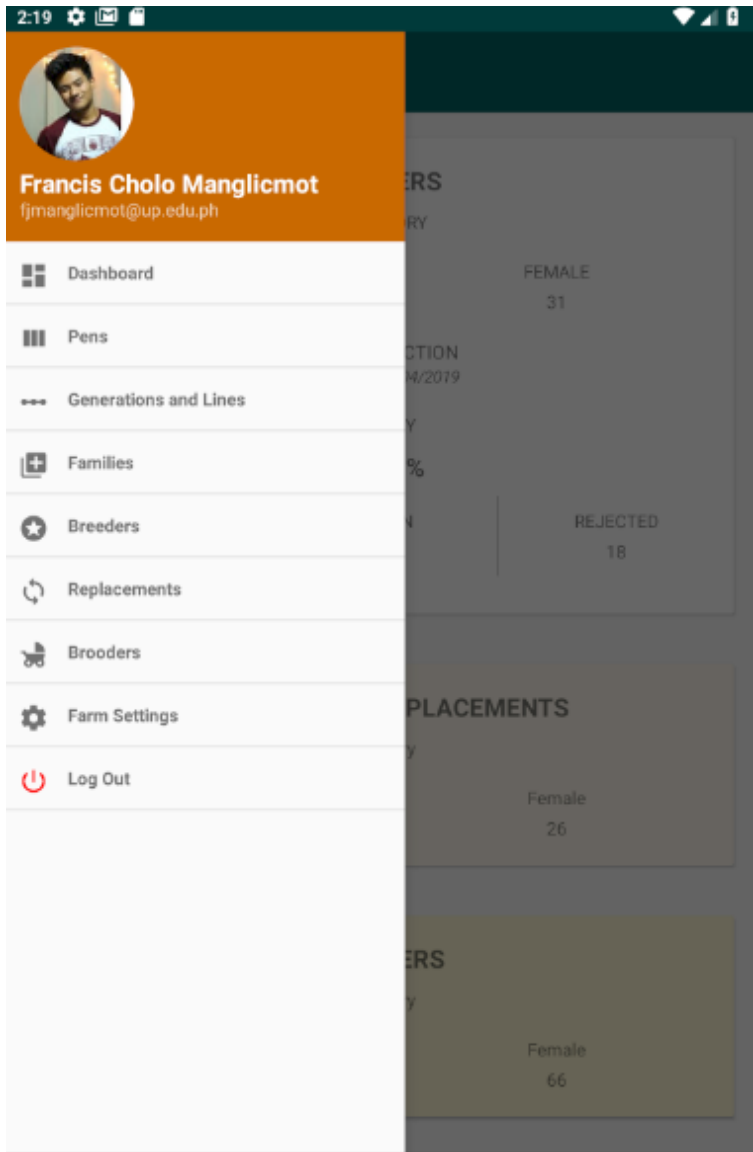


This is where the user will be directed upon logging in. The dashboard shows the inventory of the breeders separated according to their sex. It also shows the egg production. The “Growers and Replacements” sections shows the number of male and female replacements. The “Brooders” section shows the number of brooders separated according to sex. The numbers in this page are automatically updated every time the user updates the farm records.

NAVIGATION DRAWER




On the top left corner of the screen, there is a  icon. If tapped, a navigation drawer will be opened as shown in the image on the right. It contains the menu of the application. The following items are in the menu: Dashboard, Pens, Generations and Lines, Families, Breeders, Replacements, Brooders, Farm Settings, and Log Out. This is accessible anywhere from the mobile application as this navigation drawer serves as the user's guide to the recording forms.




NATIVE CHICKEN AND ITIK PINAS BREED MOBILE APPLICATION



PENS

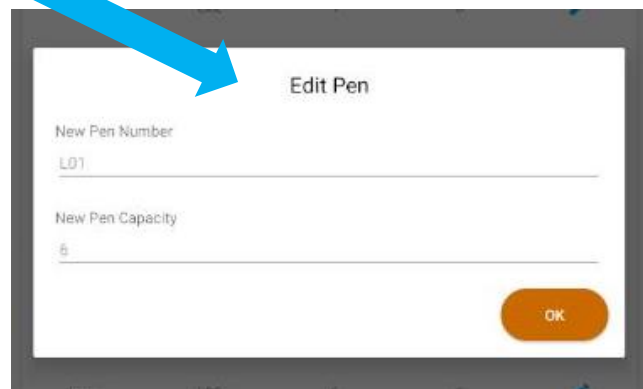


Pens

| Type | Number | Content | Capacity | Edit |
|---------|--------|---------|----------|------|
| brooder | B01 | 63 | 150 | |
| brooder | B02 | 91 | 100 | |
| brooder | B03 | 20 | 100 | |
| brooder | B04 | 2 | 100 | |
| grower | G01 | 211 | 100 | |
| layer | L01 | 27 | 30 | |
| Brooder | B05 | 0 | 50 | |
| Brooder | B06 | 0 | 89 | |
| Brooder | B07 | 70 | 100 | |
| Grower | G02 | 52 | 100 | |
| Layer | L02 | 2 | 50 | |
| Layer | L03 | -3 | 100 | |



For this page, the user can add or edit pens. To add a new pen, the tap the  icon on the bottom right corner of the page. A window (Figure 2) will appear and the user will just fill out the following fields: Pen Number, Pen Type, and Pen Capacity. After completing the form, tap the "ADD" button to submit. To edit a certain pen, the user will have to tap the  icon and a window (Figure 1) will appear. This contains the Pen Number and Pen Capacity. After changing the chosen field, tap "OK" to save the changes.



Edit Pen

New Pen Number
L01

New Pen Capacity
5


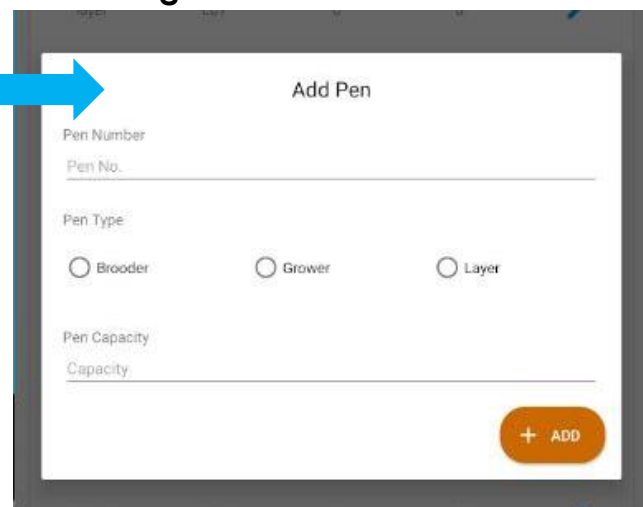


Figure 1. Edit Pen Window



Add Pen

Pen Number
Pen No.

Pen Type
☐ Brooder ☐ Grower ☐ Layer

Pen Capacity
Capacity


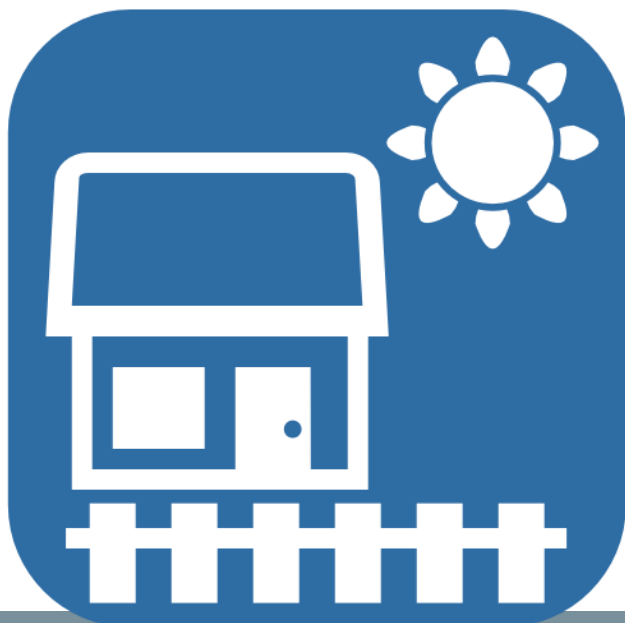
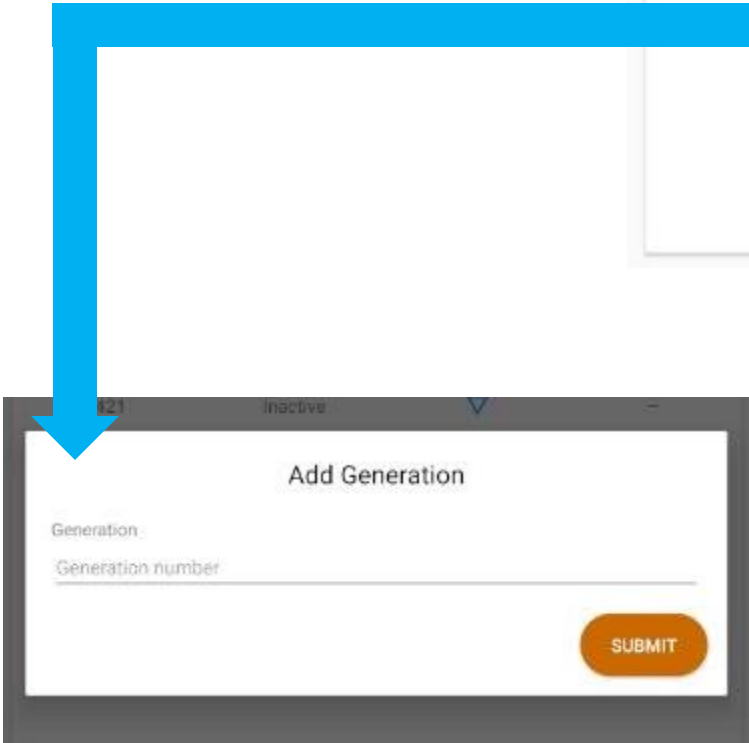
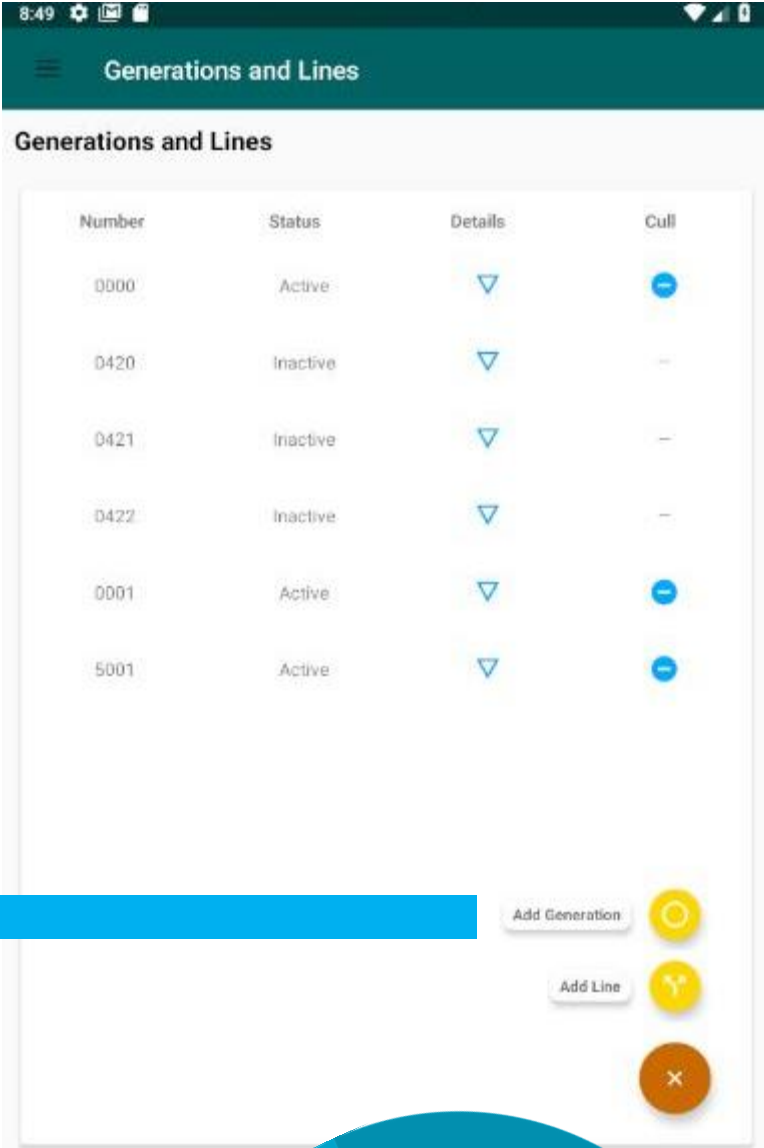


Figure 2. Add Pen Window

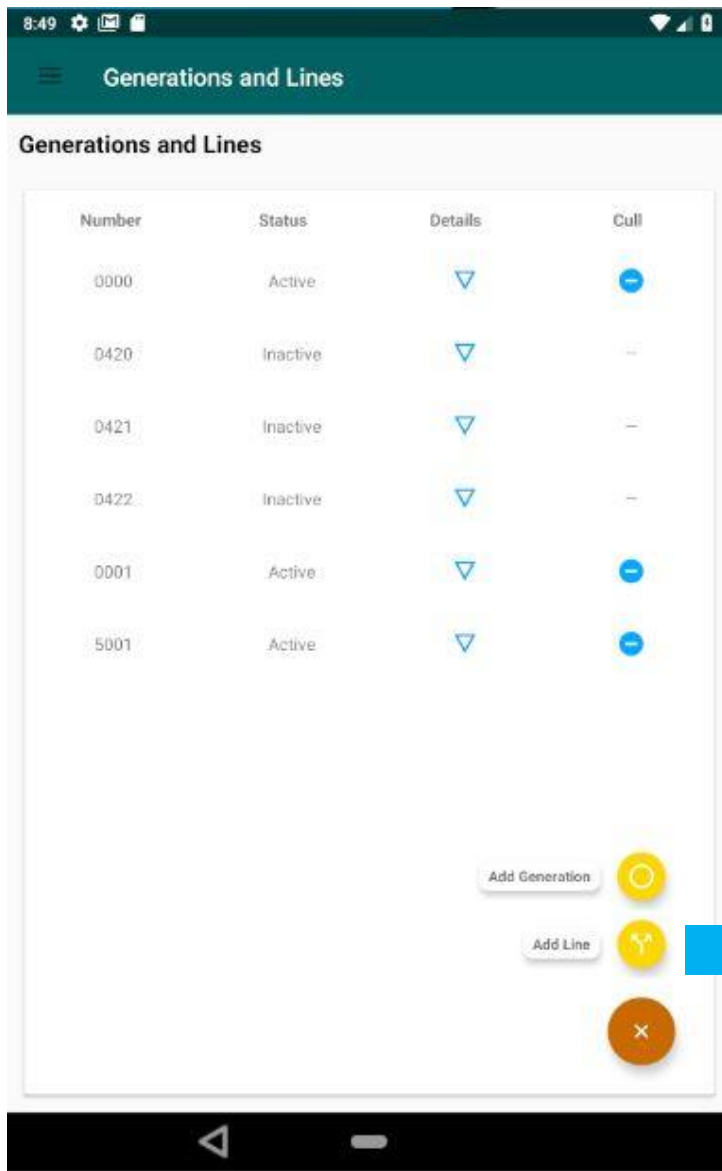


GENERATIONS AND LINES

For this page, the user can view all the generations and lines in their farm. It contains the Generation Number, Status, Details, and option to Cull. To add a new generation, the user will tap the **+** icon on the bottom right corner and then two more buttons with icons will appear—Add Generation and Add Line. He/she then must tap on the **O** icon. A window, shown in the image below, will appear upon tapping. The user will enter the Generation Number and it will now appear on the list, shown in the right. Its status will be active as long as it is not yet culled.



GENERATIONS AND LINES



Add Line

Generation: 0000

Line:

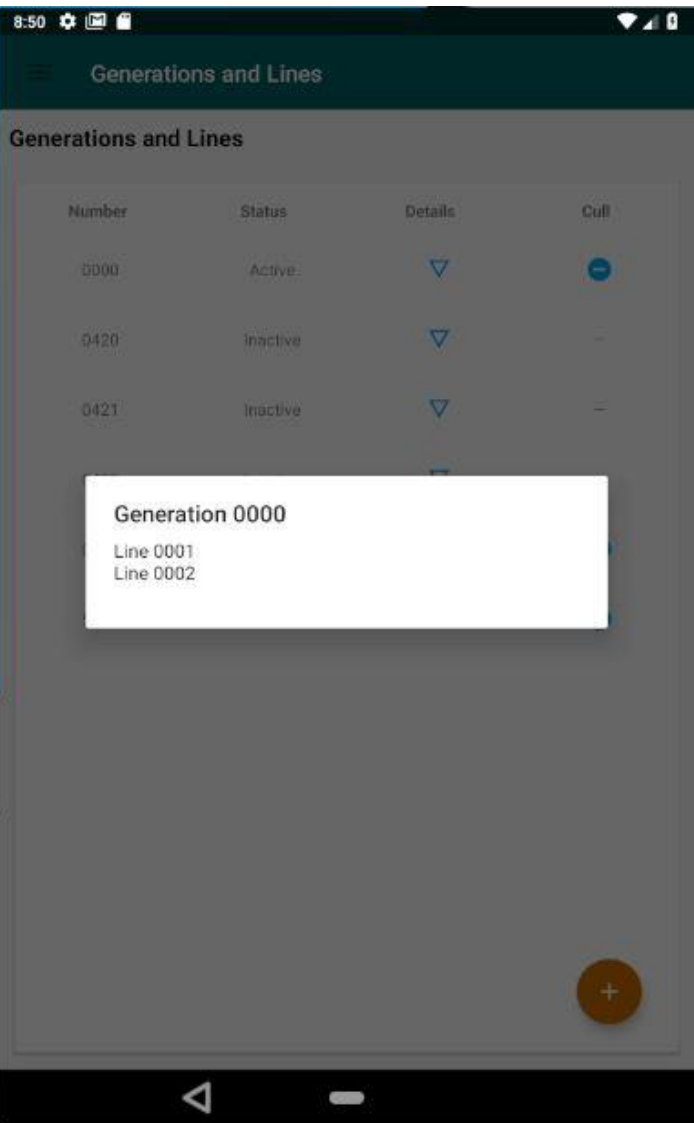
Line number:

SUBMIT

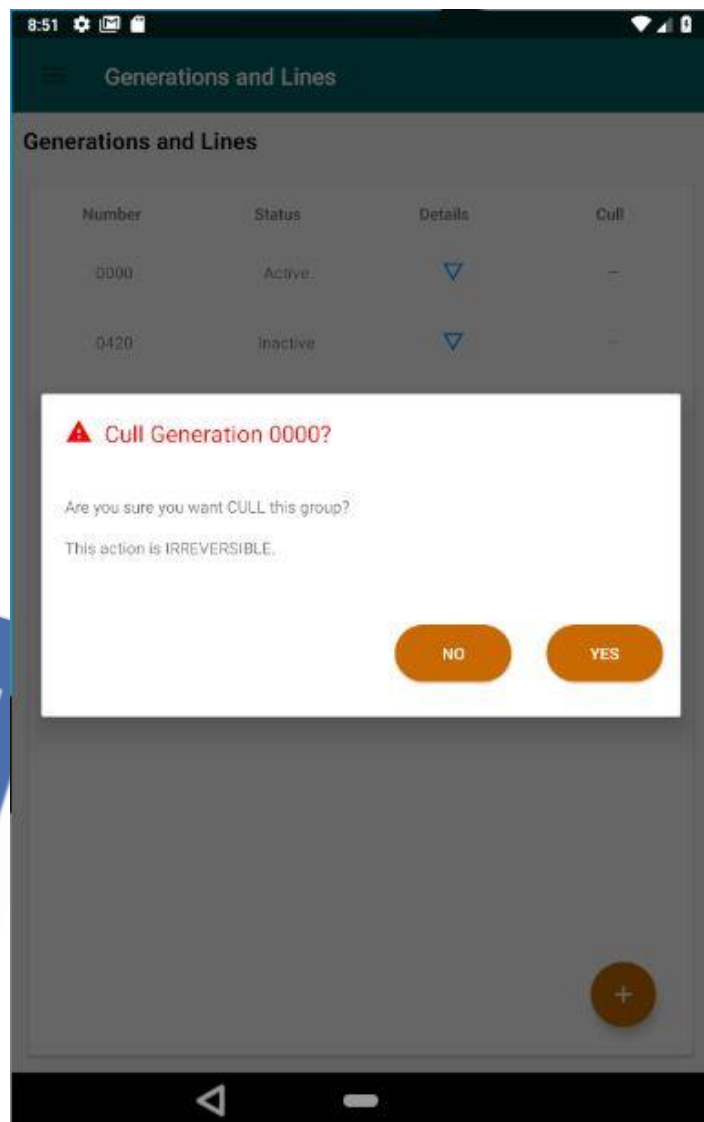
Following the same process for adding generations, when adding new lines, the icon ↗ will be tapped and a window, shown on the right, will appear. The user must choose from the existing generations and then enter the line number. To add the new line after filling up the form, tap on the "SUBMIT" button.

NATIVE CHICKEN AND ITIK PINAS BREED MOBILE APPLICATION

GENERATION AND LINES



The image on the right shows the window that displays the details of the generation. It contains the generation number and the lines available in that generation. To get there, the user will just tap on the ▼ icon under the “Details” column. While for the image below, that window will appear if the user tapped on the + icon under the “Cull” column. Tap “YES” to confirm and “NO” to cancel.

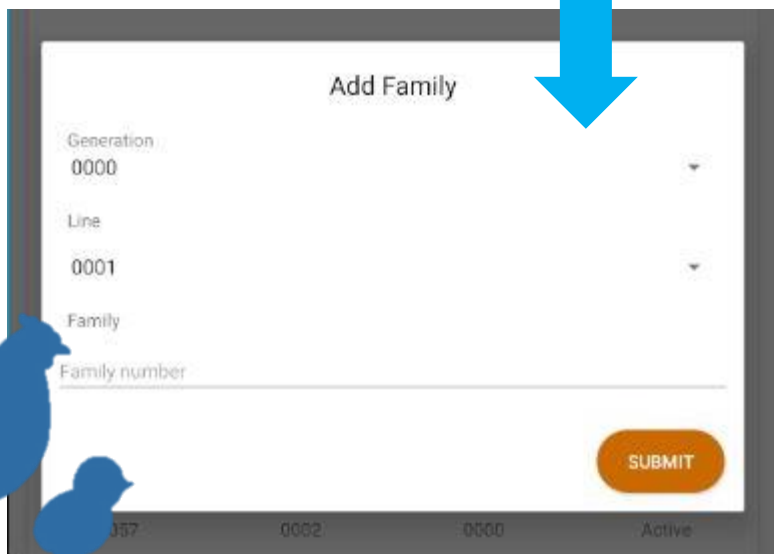


FAMILIES

For the Families page, all the existing families are listed. Along with the Family Number, the user can also see the Line Number and the Generation where the Family belongs. The status is also displayed. To add a new family, there is a floating button on the bottom right corner with a **+** on it. Upon tapping that button, a window, shown in the image below will appear. It asks the user to choose in what Generation and Line should he/she add the new family. After choosing from the existing generations and lines, the Family Number field can now be filled out. After that, he/she should tap the "SUBMIT" button to save the new family.



| Family Number | Line Number | Generation Number | Status |
|---------------|-------------|-------------------|--------|
| 0001 | 0001 | 0001 | Active |
| 0001 | 0002 | 0001 | Active |
| 0002 | 0001 | 0001 | Active |
| 0002 | 0002 | 0001 | Active |
| 0001 | 0001 | 0002 | Active |
| 0001 | 0002 | 0002 | Active |
| 0003 | 0002 | 0002 | Active |
| 0001 | 0003 | 0002 | Active |
| 0002 | 0003 | 0002 | Active |
| 0025 | 0001 | 0001 | Active |
| 0005 | 0001 | 0001 | Active |



Add Family

Generation
0000

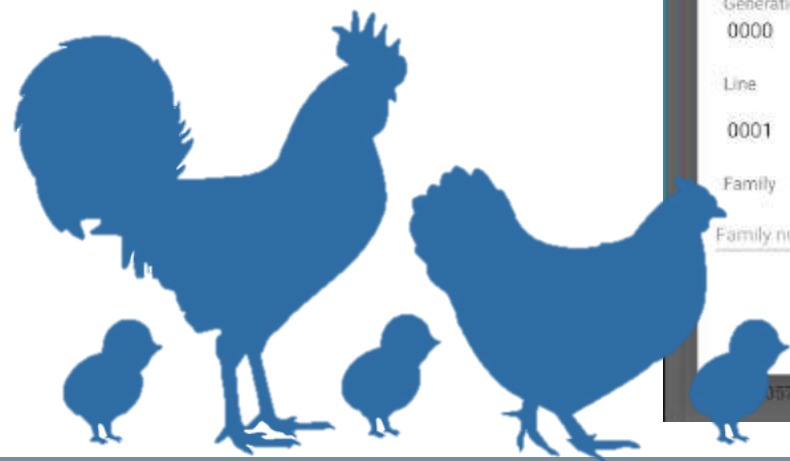
Line
0001

Family

Family number

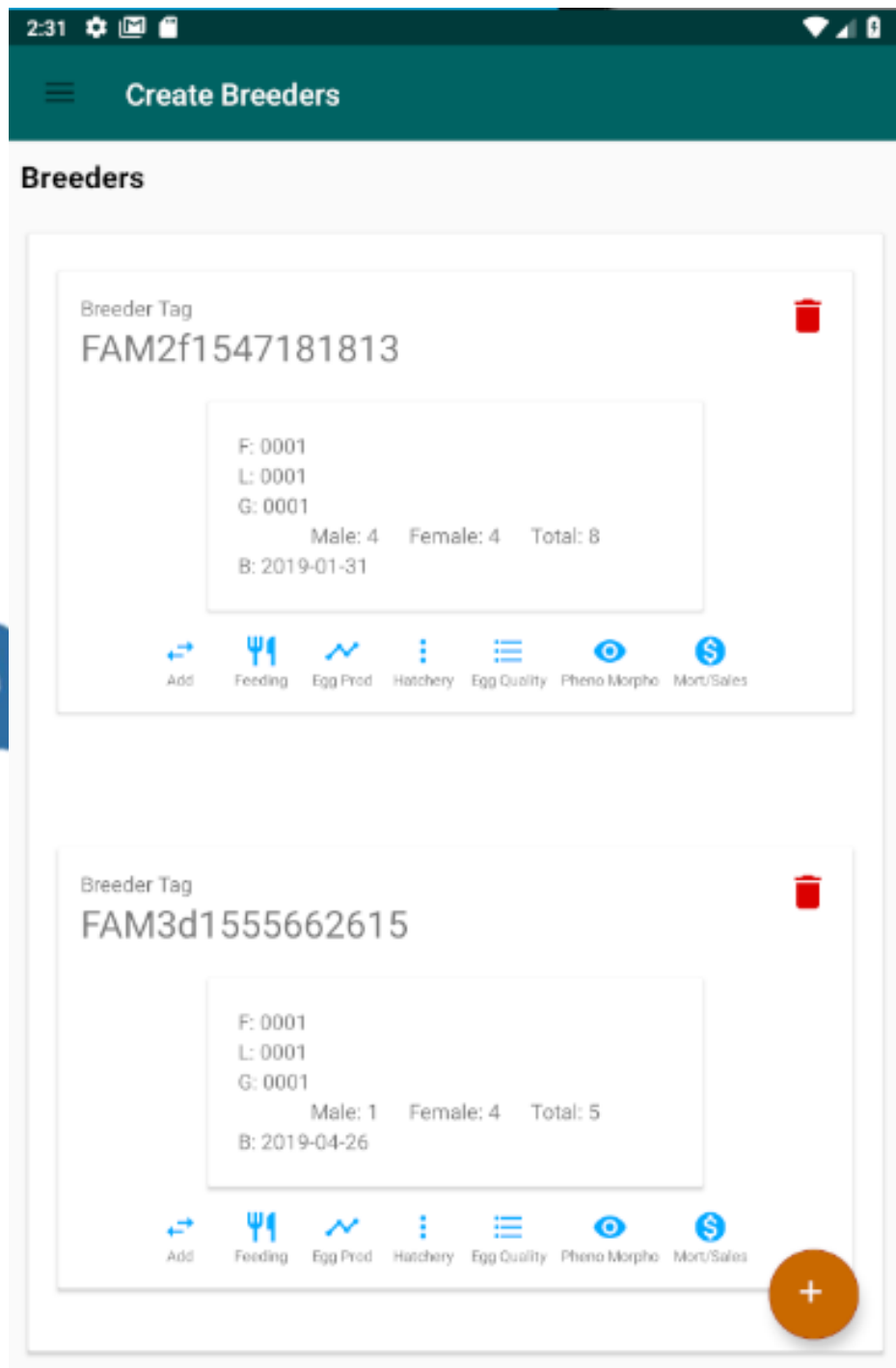
SUBMIT

0005 0002 0000 Active



NATIVE CHICKEN AND ITIK PINAS BREED MOBILE APPLICATION

BREEDERS



In the Breeders page, the user can see the following group details: Family Number, Line Number, Generation Number, number of Male Breeders, number of Female Breeders, total number of Breeders, and Date Bred. There are several icons to redirect the user to other views namely, Add Breeders (within the system or from outside source), Add Feeding Records, Add Egg Production, Add Hatchery Record, Add Egg Quality Record, Add Phenotypic and Morphometric Records, Add Mortality and Sales and Cull Breeder Record. The details of these different views will be discussed in the next pages.

BREEDERS

In the Breeders Page, if the user taps the floating button with **+** icon on the bottom right corner of the page, he/she will see a window (shown in the picture on the left). It lets the users create a new group record. The user has an option to add breeders within the system or from outside source (bought from other farms, etc.). To add the breeder after filling up the form, the user will then tap the "SUBMIT" button and the number of male and female breeders will be updated.

Add Breeder Record

Within System ☐ Outside System

Male's Generation
0000

Male's Line
0001

Male's Family

Male's Replacement Inventory

Number of Males

Male Wingband

Separate by comma

Female's Generation
0000

Female's Line
0001

Female's Family

Female's Replacement Inventory

Also, if the user taps on the **↔** icon, the window (shown in the image on the right) will appear. This form asks the user for the number of male and female breeders which he/she wants to add to the breeding record. Tap "SUBMIT" to add breeders.

Create Breeders

Breeders

Breeder Tag
WVSU5d1551516884

F: 0003
L: 0001

Add Breeders to WVSU5d1551516884

Male

Female


SUBMIT

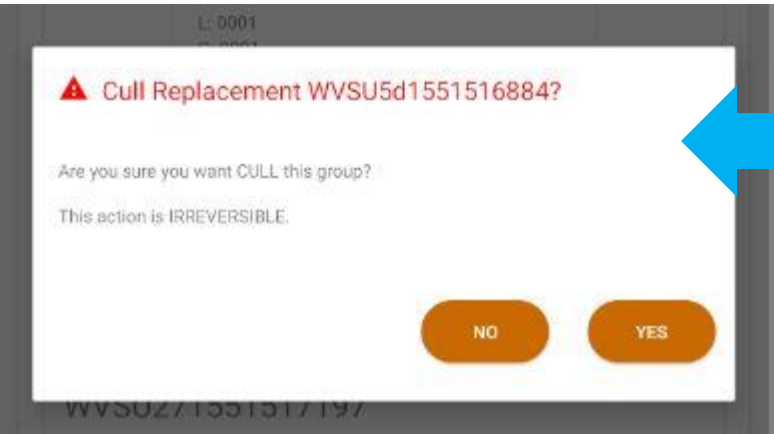
F: 0003
L: 0001
G: 0001
Male: 6 Female: 1 Total: 7
B: 2019-03-07

ADD Feeding Egg Prod Hatchery Egg Quality Photo Mapto MarkSales


BREEDERS

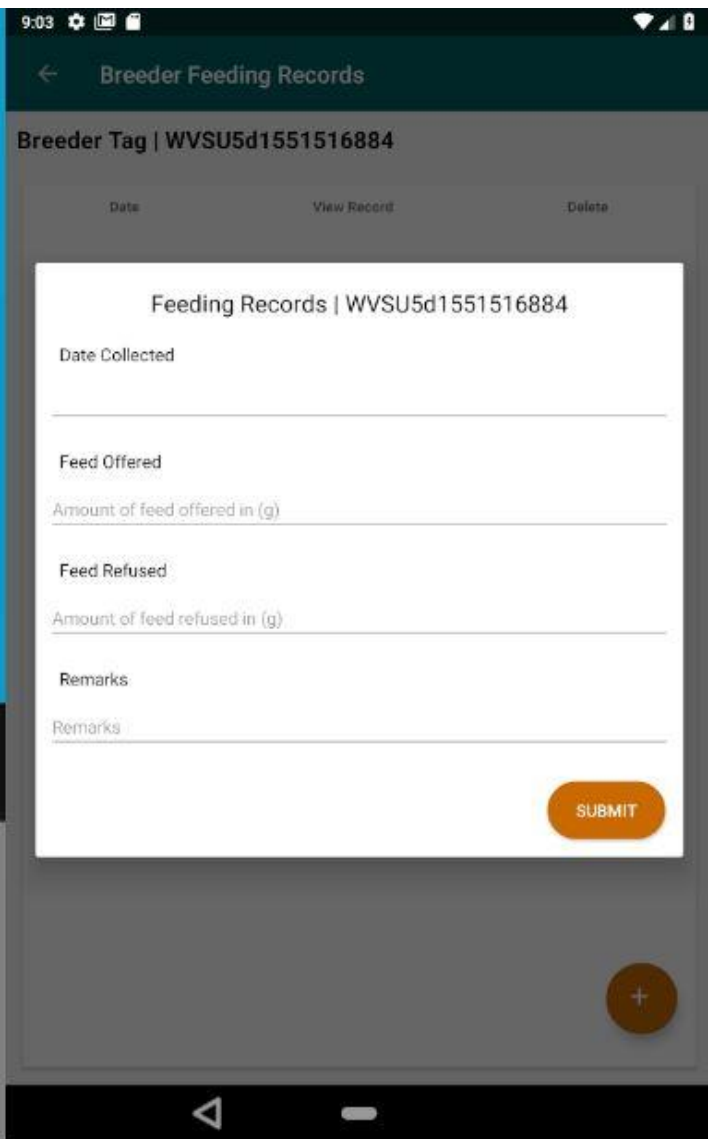


As shown in the image on the right, there is a  icon which lets the user cull the group upon tapping the icon, a window (shown in the image below) will appear. It is a prompt message which confirms whether the user will really cull the group or not. To confirm, tap “YES” and to cancel, tap “NO”.



BREEDERS

The image on the left shows the form to add Feeding Records to the group. The user can arrive at this view by tapping on the  icon from the Breeders page. The form for adding feeding records have the following fields: Date Collected, Feed Offered in grams, Feed Refused in grams, and Remarks. After the user has filled up the form, he/she must then tap on the "SUBMIT" button to save the feeding record of the group.



Breeder Feeding Records

Breeder Tag | WVSU5d1551516884

Date View Record Delete

Feeding Records | WVSU5d1551516884

Date Collected

Feed Offered

Amount of feed offered in (g)

Feed Refused

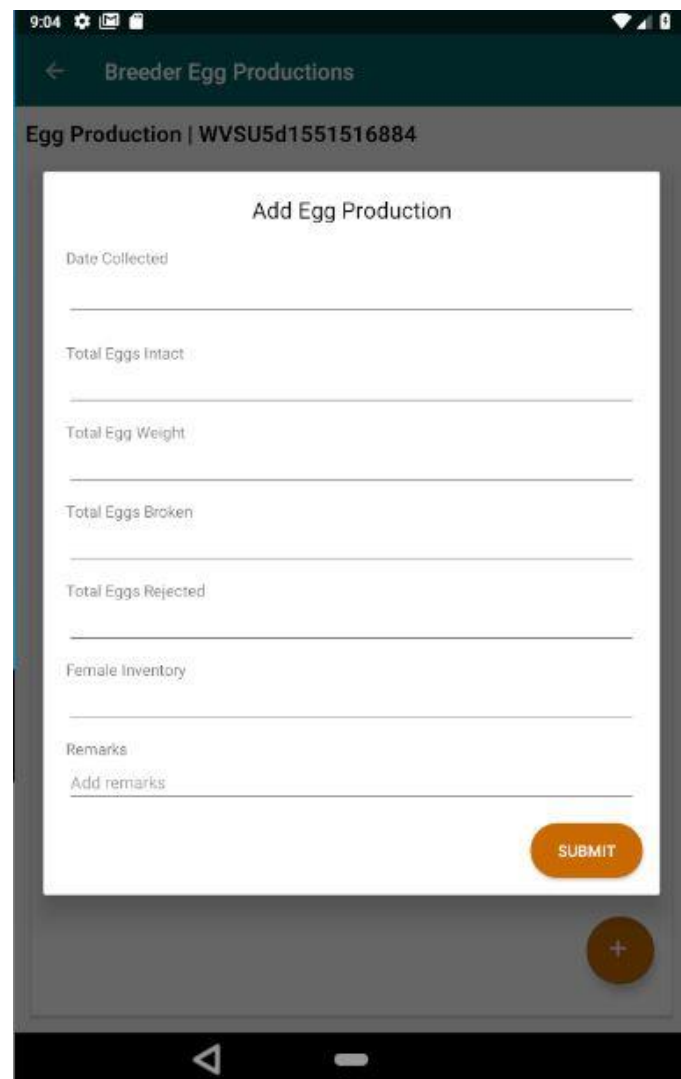
Amount of feed refused in (g)

Remarks

Remarks

SUBMIT

+



Breeder Egg Productions

Egg Production | WVSU5d1551516884

Add Egg Production

Date Collected

Total Eggs Intact

Total Egg Weight

Total Eggs Broken

Total Eggs Rejected


Female Inventory

Remarks


Add remarks

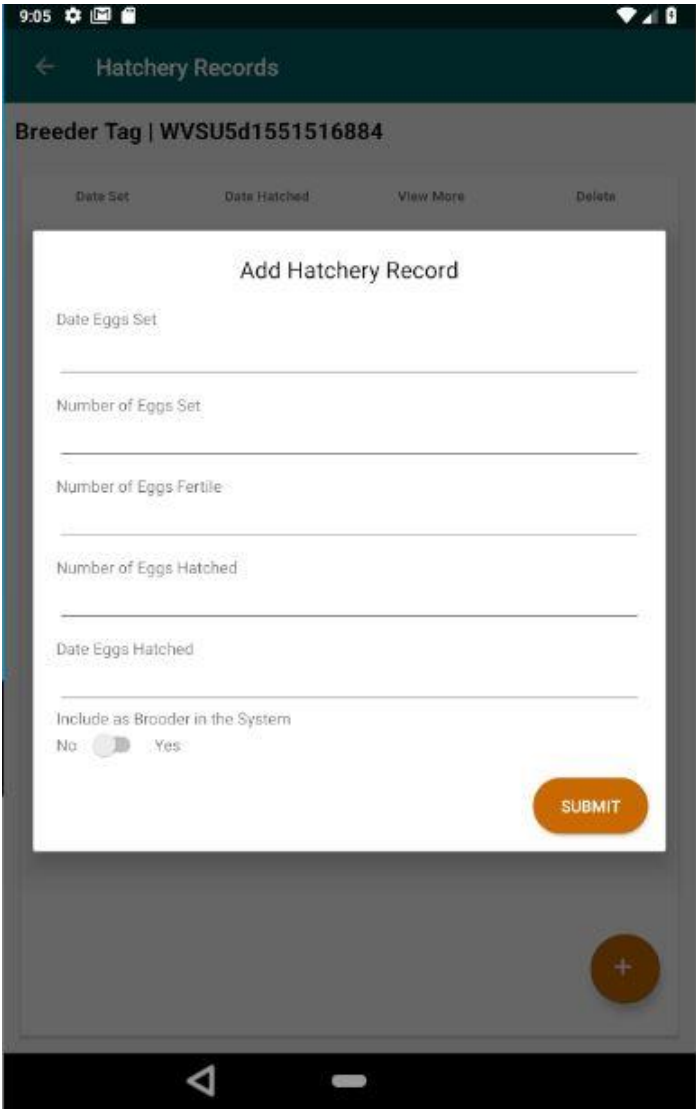
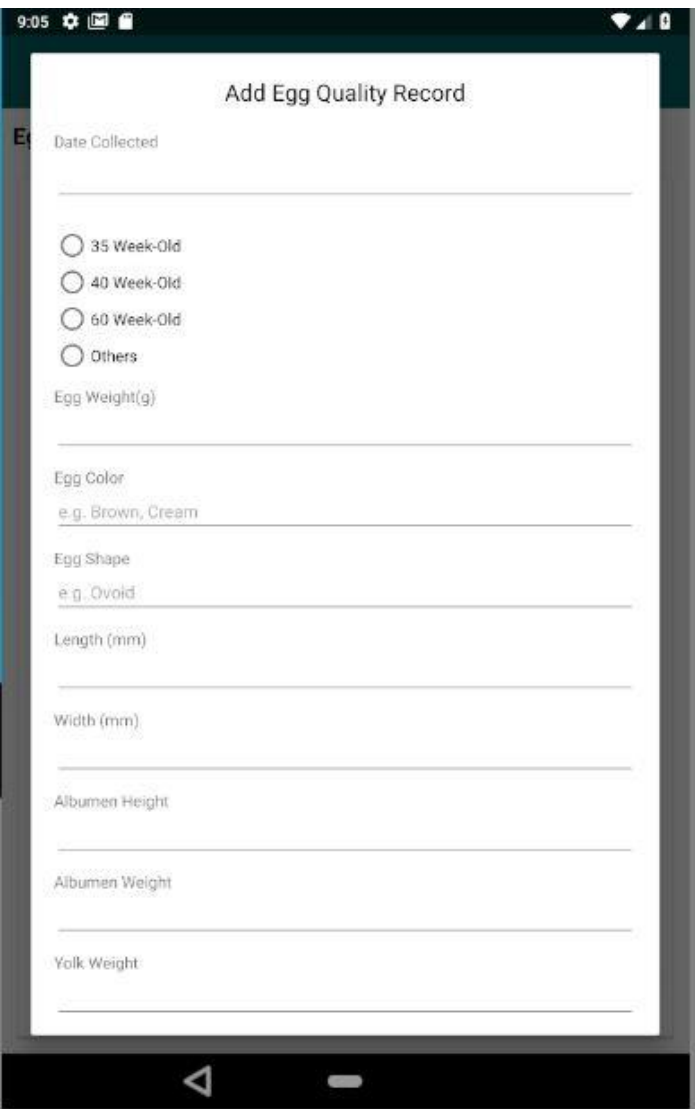
SUBMIT


+

As for the image on the right shows the form for adding Egg Production. This view is accessible through the  icon. It contains the following fields: Date Collected, Total Eggs Intact, Total Egg Weight, Total Eggs Broken, Total Eggs Rejected, Female Inventory, and Remarks. Tapping the "SUBMIT" button will save the egg production record.

BREEDERS

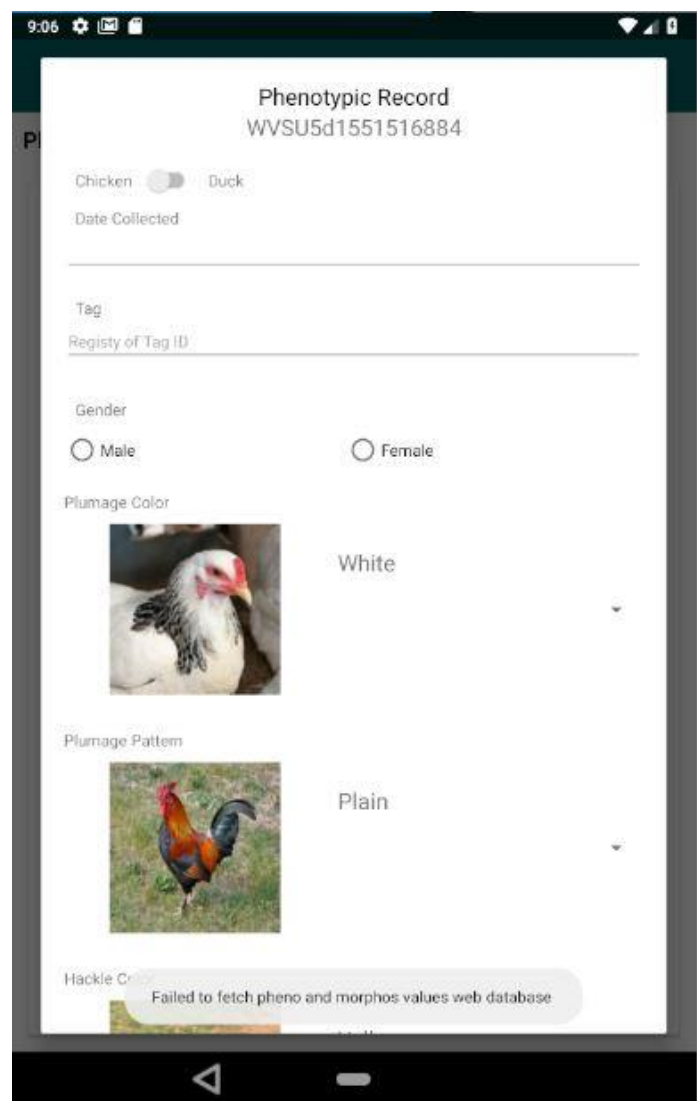
For the Hatchery Record, it is accessible by tapping the  icon. Upon tapping the icon, the user will see a window as shown in the image on the right. The form contains the following fields: Date Eggs Set, Number of Eggs Set, Number of Eggs Fertile, Number of Eggs Hatched, and the option to Add as Brooder in the System. Once the form is accomplished, tapping the “SUBMIT” button will save the hatchery record.



As for the Egg Quality Record, the user can access it by tapping on the  icon. The form inside the window (shown in the image on the left) will appear. This form contains the following fields: Date Collected, Age when Egg Quality is Collected, Egg Weight in grams, Egg Color, Egg Shape, Length and Width in millimeters, Albumen Height, Albumen Weight, and Yolk Weight. Upon form completion, tapping the “SUBMIT” button will save the record.

NATIVE CHICKEN AND ITIK PINAS BREED MOBILE APPLICATION

BREEDERS



9:06

Phenotypic Record
WVSU5d1551516884

Chicken ☒ Duck ☐

Date Collected


Tag

Registry of Tag ID


Gender

☒ Male ☐ Female

Plumage Color

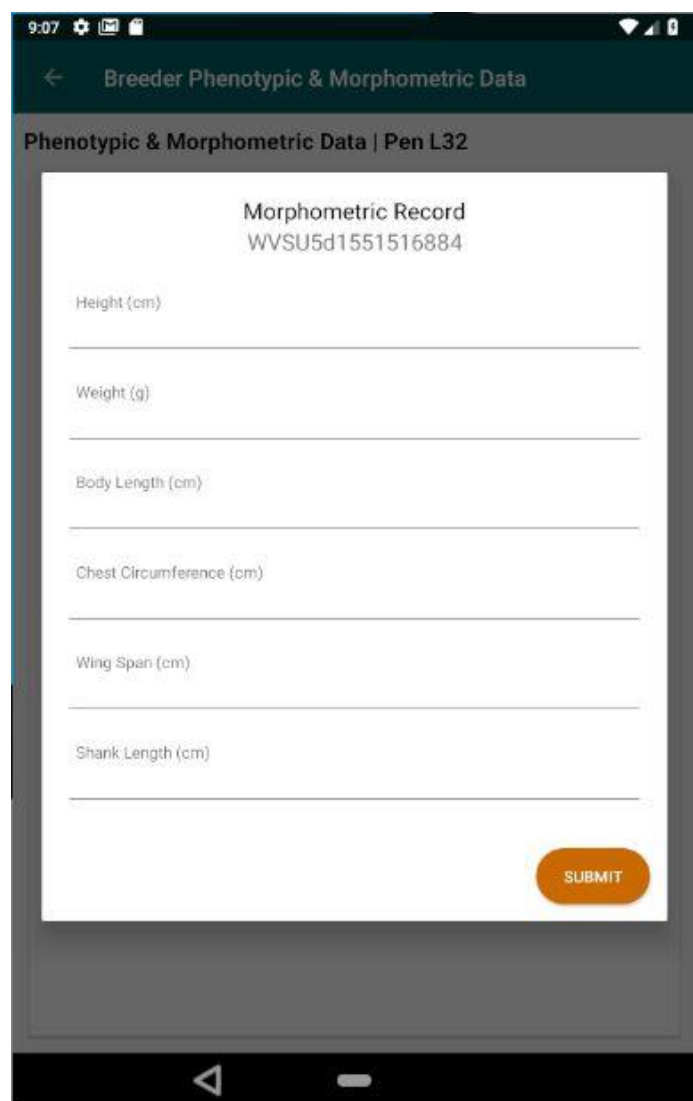
 White

Plumage Pattern

 Plain

Hackle C

Failed to fetch pheno and morphos values web database



9:07

Breeder Phenotypic & Morphometric Data

Phenotypic & Morphometric Data | Pen L32

Morphometric Record
WVSU5d1551516884

Height (cm)

Weight (g)


Body Length (cm)

Chest Circumference (cm)

Wing Span (cm)

Shank Length (cm)

SUBMIT


The breeder's phenotypic and morphometric records can be accessed by tapping the  icon. Upon tapping the icon, the user will see the records. The forms for adding phenotypic and morphometric records are shown in the images above. On the left, the form for phenotypic records is displayed while on the right is the form for morphometric records. Pictures are included in the phenotypic records form for the user's reference. Both forms can be submitted by tapping on the "SUBMIT" button.

NATIVE CHICKEN AND ITIK PINAS BREED MOBILE APPLICATION

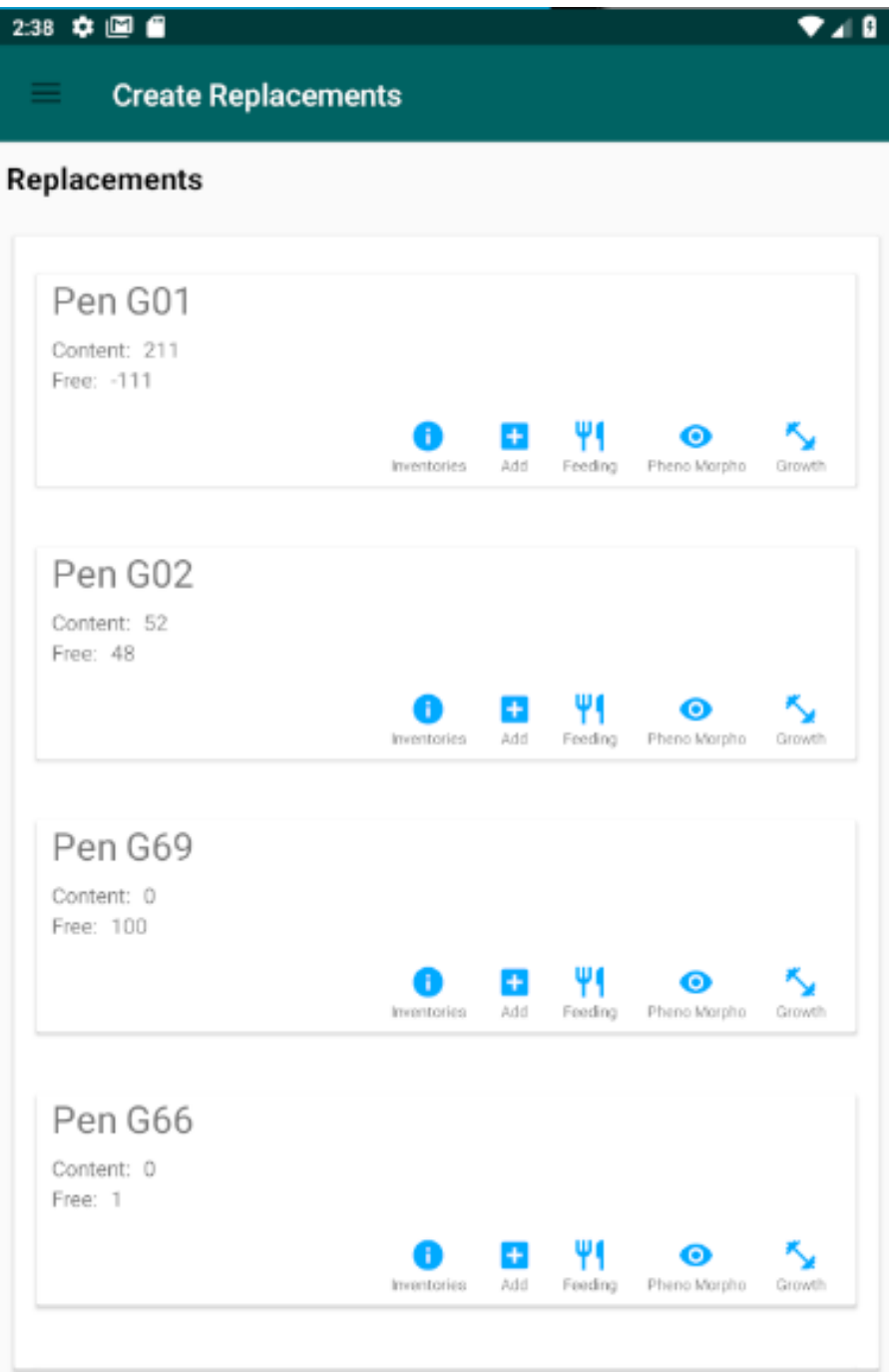
BREEDERS

The screenshot shows a mobile application interface for 'Mortality and Sales' with the identifier 'WVSU5d1551516884'. At the top, there is a navigation bar with a back arrow and the title 'Mortality and Sales'. Below this is a header section with three tabs: 'Mortality' (selected), 'Sales', and 'Egg Sales'. The main form area contains the following fields: 'Date Died' (text input), 'Male Death' (text input), 'Female Death' (text input), 'Reason' (dropdown menu with 'Sickness' selected), and 'Remarks' (text input). An orange 'SUBMIT' button is located at the bottom right of the form. A floating action button with a plus sign is visible at the bottom right of the screen.

The screenshot shows the same 'Mortality and Sales' interface, but with the 'Sales' tab selected. The form fields are: 'Date Sold' (text input), 'Male Sold' (text input), 'Female Sold' (text input), 'Price' (dropdown menu with 'Price/kg' selected), and 'Remarks' (text input). An orange 'SUBMIT' button is at the bottom right of the form. A floating action button with a plus sign is at the bottom right of the screen.

For the Mortality and Sales, it can be accessed by tapping the  icon. Upon tapping the icon, the user will see the records for Mortality, Sales, and Egg Sales. The forms for adding mortality and sales records are shown in the images above. On the left, the form for mortality records is displayed while on the right is the form for sales records. For the Mortality, the fields are Date Died, Male Death, Female Death, Reason, and Remarks while for the Sales, the field are the following: Date Sold, Male Sold, Female Sold, Price, and Remarks. For the Egg Sales, it is almost the same with Sales, it just have Eggs Sold and the total weight. These forms are submitted upon tapping the "SUBMIT" button.

REPLACEMENTS



The Replacements page shows all the available pens and the details such as Content, the number of replacements in the pen, and Free, the number of available slots. This page contains five (5) links to different views namely: Inventories, Add Replacement to Pen, Add Feeding Records, Add Phenotypic and Morphometric Records, and Add Growth Records. Add Feeding Records and Add Phenotypic and Morphometric Records are the same with those for the Breeders page.

REPLACEMENTS

The image on the right shows the Add Replacement to Pen form. This will appear upon tapping on the **+** icon. The user can either add replacement within system or from outside source. He/she will choose the Generation, Line, Family, and Brooder from the existing ones. Then he/she must specify the Number of Brooders to Add, the Estimated Date of Hatch, and the Date Added. Tapping the "SUBMIT" button will save the record.

9:10

Replacement Growth Records

Replacement Pen G01

| Date | Collection Day | Inventory Code | View | Delete |
|------|----------------|----------------|------|--------|
|------|----------------|----------------|------|--------|

G01 Growth Records

Collection Day

☐ Day 45 ☐ Day 75 ☐ Day 100

Input Other Day

No ☐ Yes ☐

Date Collected

Male Weight

Total weight of all males (kg)

Female Weight

Total weight of all females (kg)

SUBMIT

9:09

Create Replacements

Replacements

Add Replacement to Pen G01

Within System ☐ Outside System ☐

Generation

0000

Line

0002

Family

0001

Transfer from Brooder

Number of brooders to transfer or add

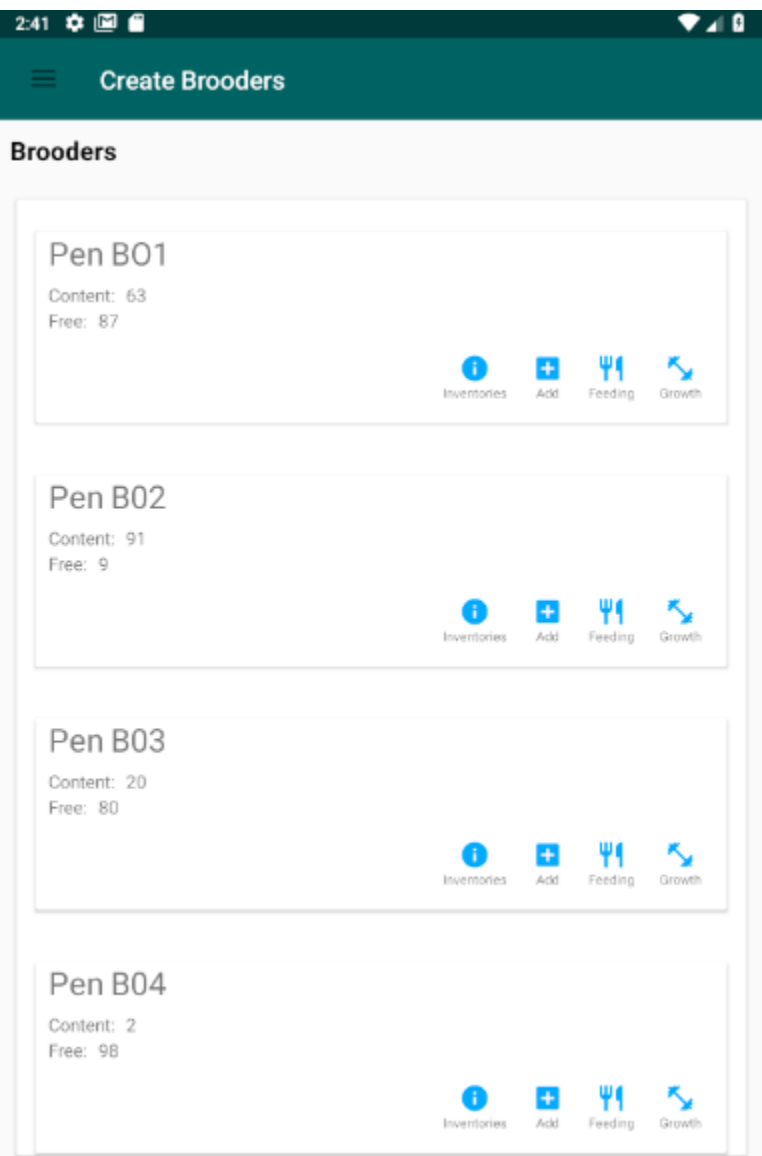
Estimated date of hatch

Date Added

SUBMIT

For the Growth Records of the chosen pen, the window in the image on the left will appear upon tapping the **+** icon. The user may choose the Collection Day for automatic computation, or he/she may opt to input on other day by toggling the switch to "Yes" and then specify the actual date in the Date Collected field. The user must also input the total weight of all males in kilograms in the "Male Weight" field as well as for the females in the "Female Weight" field.

BROODERS



For the Brooders page (shown in the image on the left), it shows the brooder pens available and their corresponding details. Each pen has its Content (number of brooders inside the pen), Free (number of available slots, and links to different views namely, Inventories, Add Brooder, Add Feeding Records, and Add Growth Record. Adding brooders to pen, feeding records, and growth record are same with the replacements.

Brooder Inventory

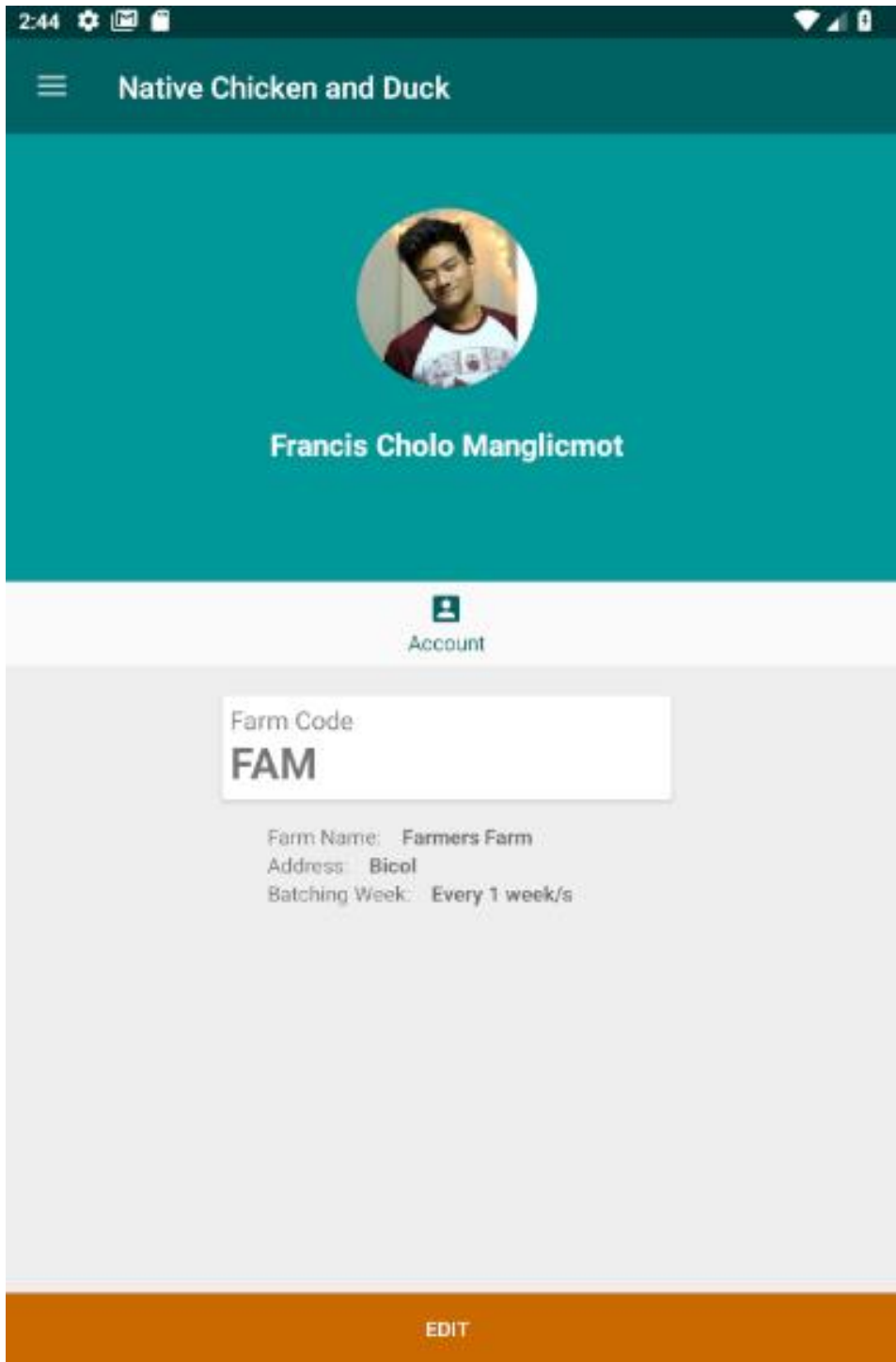
Brooder Pen B01

| Inventory Code | Batch Date | View | Mort/Sale | Cull |
|------------------|------------|------|-----------|------|
| WVSUab1543052500 | 2017-09-22 | View | \$ | - |
| WVSUe51543053499 | 2017-09-29 | View | \$ | - |
| WVSUbc1543053706 | 2017-10-06 | View | \$ | - |
| WVSUe41543053841 | 2017-10-12 | View | \$ | - |
| WVSUd91543053947 | 2017-10-19 | View | \$ | - |
| WVSU901543054046 | 2017-10-27 | View | \$ | - |
| WVSUff1543054346 | 2017-12-07 | View | \$ | - |
| WVSUb31543054428 | 2017-12-17 | View | \$ | - |
| WVSU7e1543054496 | 2017-12-22 | View | \$ | - |
| WVSU331543054574 | 2017-12-29 | View | \$ | - |
| WVSU571543054630 | 2018-01-11 | View | \$ | - |
| WVSU7d1543054713 | 2018-01-17 | View | \$ | - |
| WVSUe71543054774 | 2018-01-24 | View | \$ | - |
| WVSUaf1543054839 | 2018-01-24 | View | \$ | - |
| WVSUe81543055308 | 2018-03-12 | View | \$ | - |
| WVSU691543055787 | 2018-03-21 | View | \$ | - |
| WVSU2f1543055853 | 2018-03-28 | View | \$ | - |
| WVSUa01543055933 | 2018-04-04 | View | \$ | - |

The image on the right shows the Brooder Inventory for a certain pen. To access this page, the user must tap on the **i** icon in the Brooders page. It contains the Inventory Code, Batch Date, View Brooder, add as Mortality/Sales, and option to Cull the brooder.

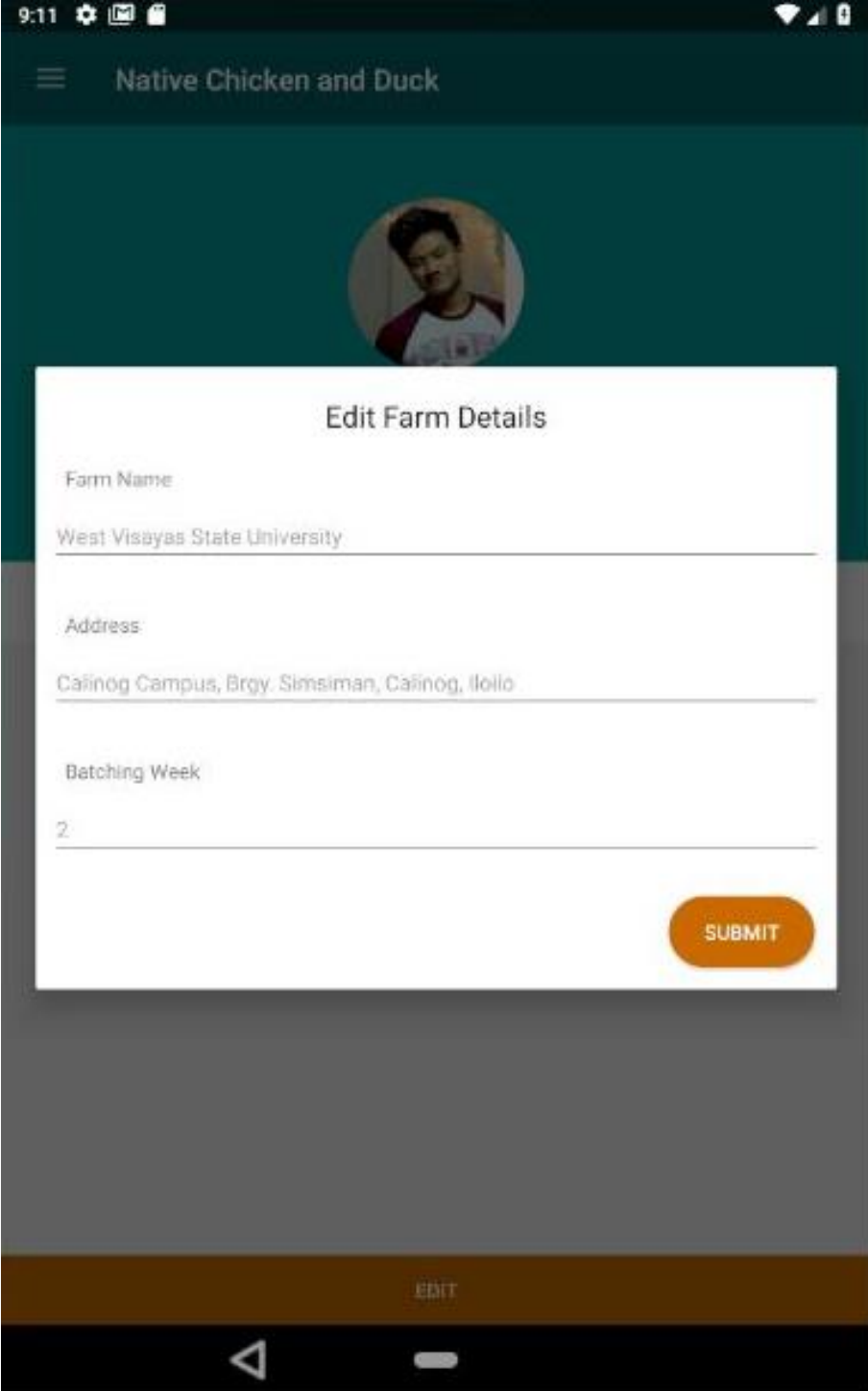
NATIVE CHICKEN AND ITIK PINAS BREED MOBILE APPLICATION

FARM PROFILE



In this page, the user can view his/her profile. It contains his/her name, and the account details such as: Farm Code, Farm Name, Address, and Batching Week.

FARM PROFILE



The screenshot shows a mobile application interface for "Native Chicken and Duck". At the top, there is a dark teal header with a hamburger menu icon and the text "Native Chicken and Duck". Below the header is a circular profile picture of a man. A white modal window titled "Edit Farm Details" is displayed in the center. It contains three text input fields: "Farm Name" with the value "West Visayas State University", "Address" with the value "Calinog Campus, Brgy. Simsiman, Calinog, Iloilo", and "Batching Week" with the value "2". An orange "SUBMIT" button is located at the bottom right of the modal. At the bottom of the screen, there is a dark brown bar with the word "EDIT" in white, and a black Android navigation bar at the very bottom.

9:11

Native Chicken and Duck

West Visayas State University

Address

Calinog Campus, Brgy. Simsiman, Calinog, Iloilo

Batching Week

2

SUBMIT

EDIT

To access this view, the user must tap on the “EDIT” button at the bottom of the Farm Profile page. In the window shown above, the only account details that are editable by the user are the following: Farm Name, Address, and Batching Week.



ADDITIONAL NOTES

- Data might not load automatically due to slow Internet connection or amount of being fetched. In case this happens, open the navigation drawer and tap on the same page to reload.
- The mobile application is synchronized with the existing web application. In case of data duplication or any race condition that may occur, the web application precedes the mobile application.
- The mobile application does not need Internet connectivity every time. Data gathered through the mobile application will be synced to the web application once an Internet connection is detected and established.



REMEMBER

It is best to record everyday.
Accurate reports are made if
data are recorded everyday.

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User Guide

**Native Chicken and Itik Pinas Breed Mobile
Application**

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