

STRAY CHALLENGE

TEAM NAME: WHIZ-KIDS

MINISTRY : Government Of Goa

CATEGORY : Software

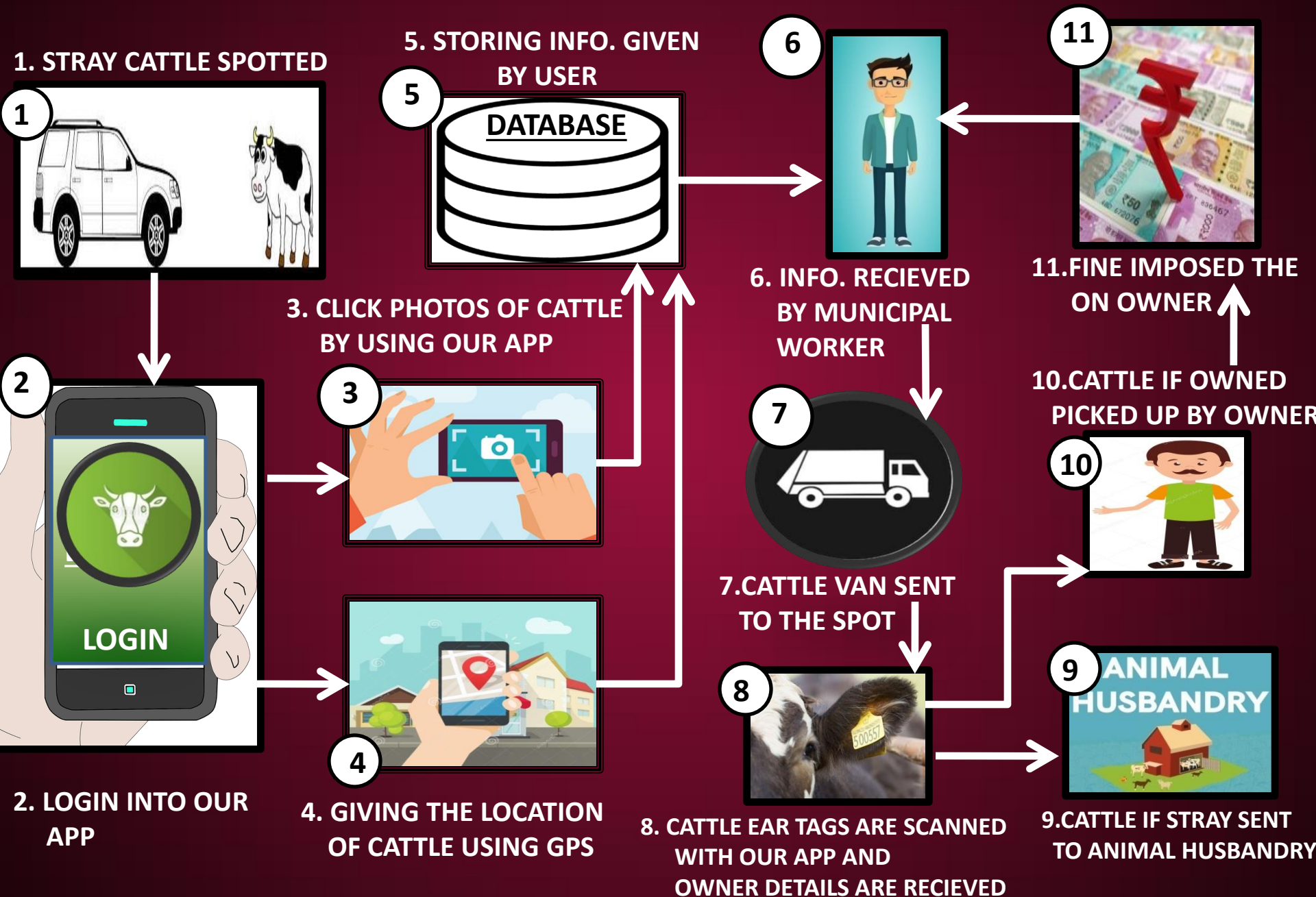
TECHNOLOGY BUCKET: Mobile App Development



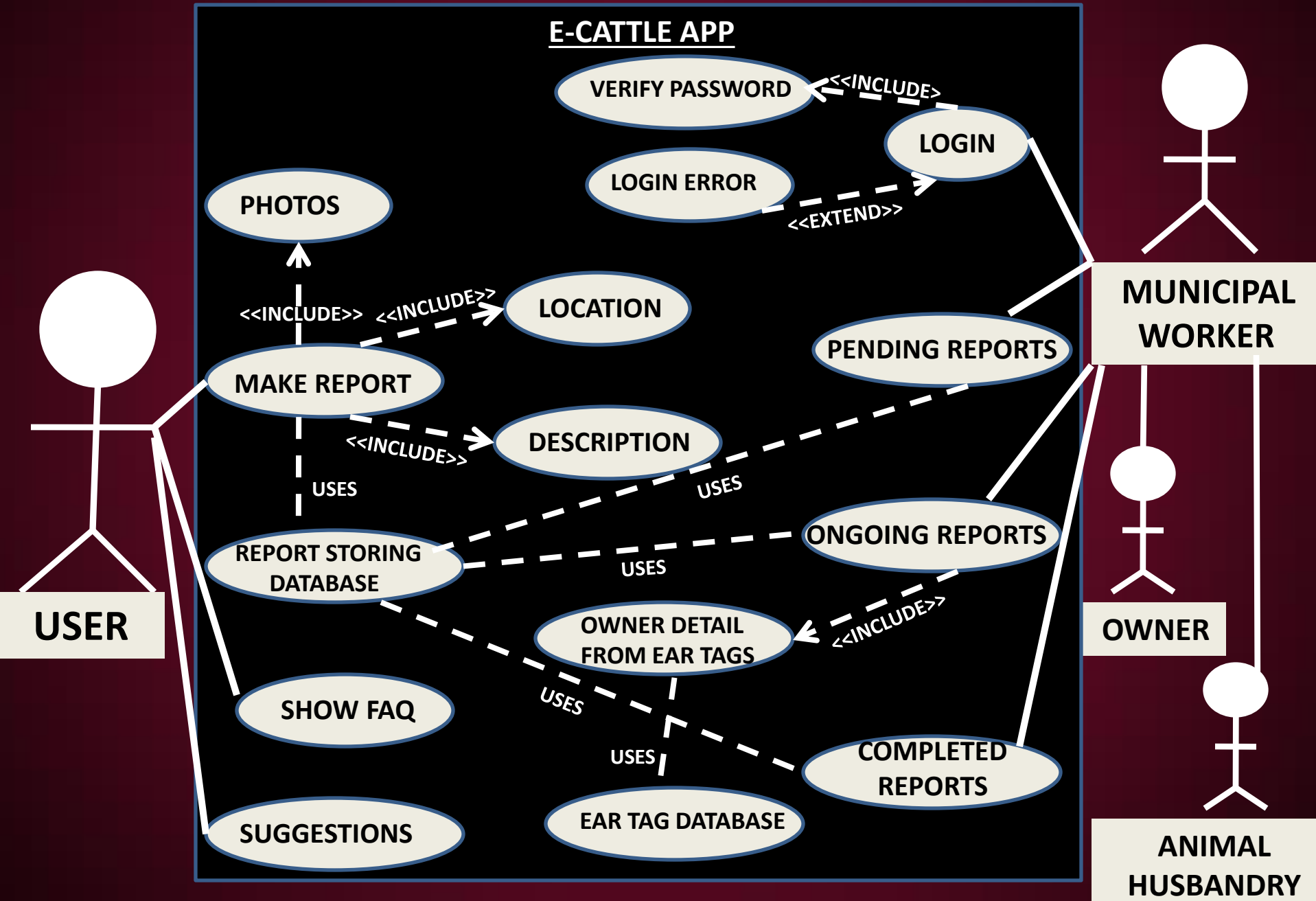
PROBLEM STATEMENT: Checking the menace of Stray Cattle in the state of Goa by involving Municipalities, Animal Husbandry, NGO and panchayats. The aim is to build mobile based dynamic reporting system which will facilitate into flow of information among all concerned stakeholders. The aim is also to provide better Governance by more involvement of public.

TEAM MEMBERS: Ameesha Jain , Aishwarya Verma ,Ayushi Dixit ,Anukriti Sharma ,
Abhitansh Gupta , Bhagya Singh Purba

PROTOTYPE

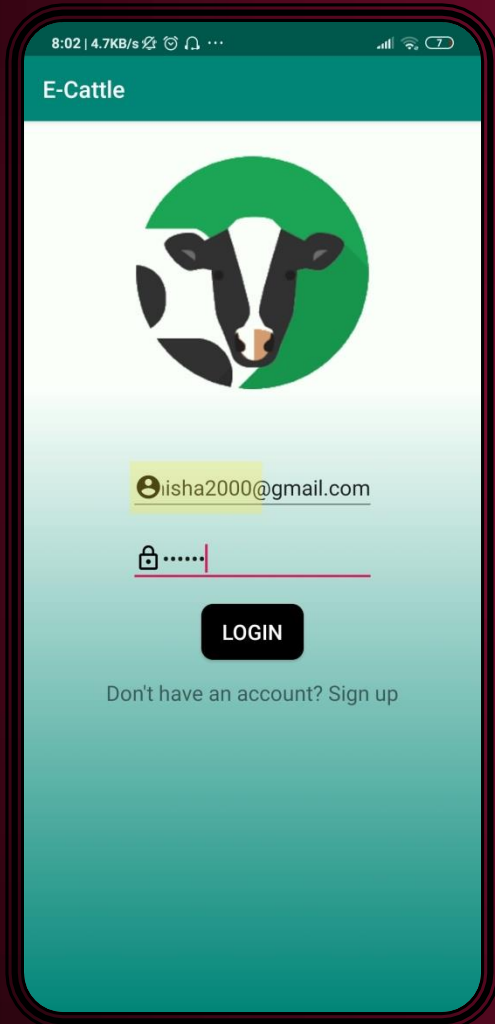


USE CASE DIAGRAM

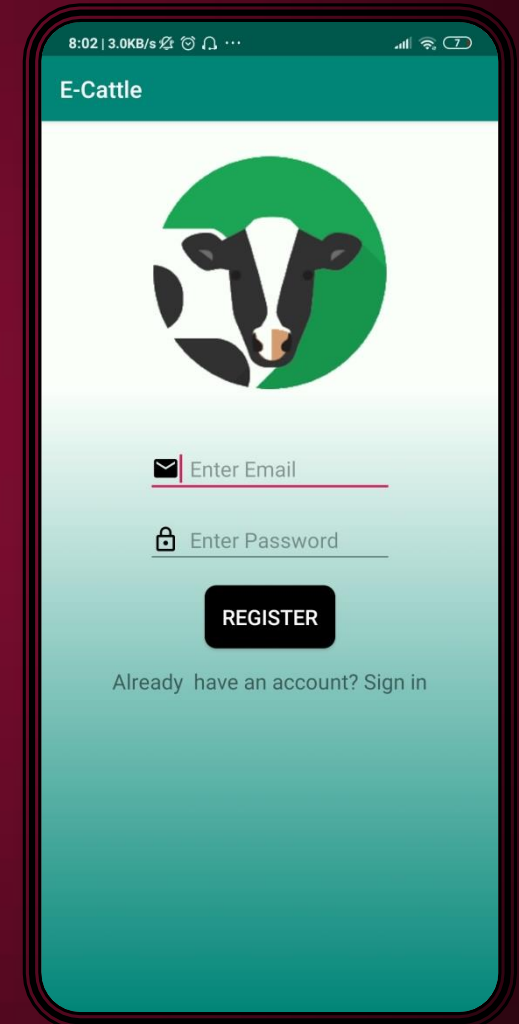


WORKING OF OUR APP

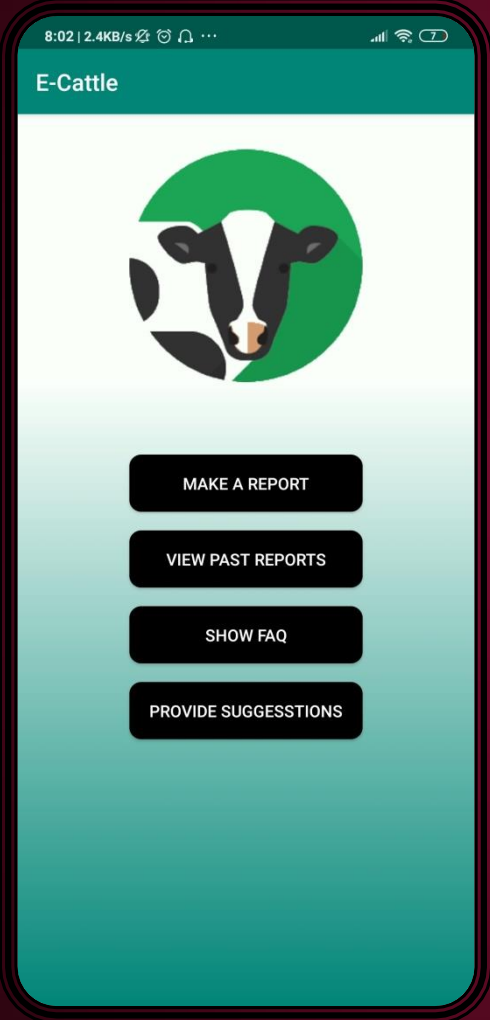
1. MUNICIPAL EMPLOYEE HAS TO LOGIN INTO OUR APP IF ALREADY REGISTERD AND USER WILL GO TO “FILE REPORT”



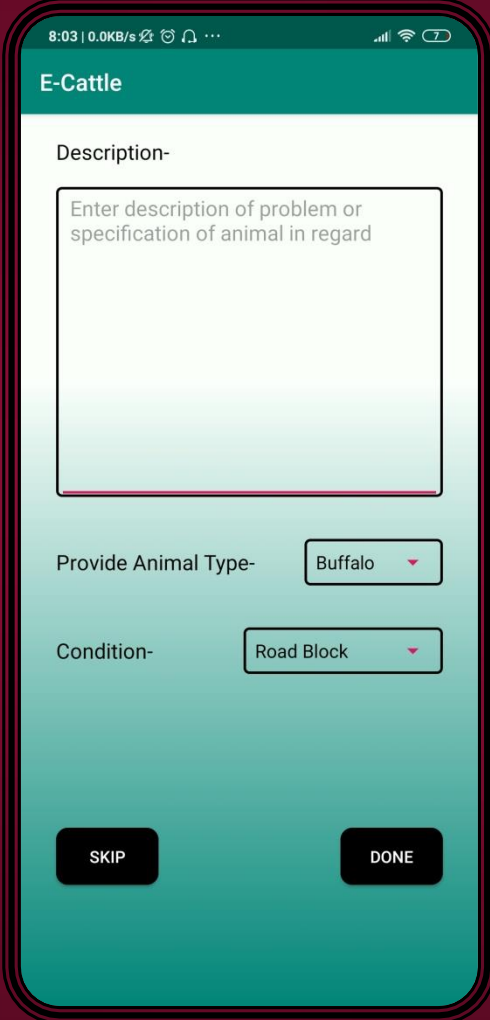
2. IF NOT THEN REGISTER YOURSELF HERE



3. AFTER CLICKING ON “FILE REPORT” USER HAS TO GO TO “MAKE A REPORT”



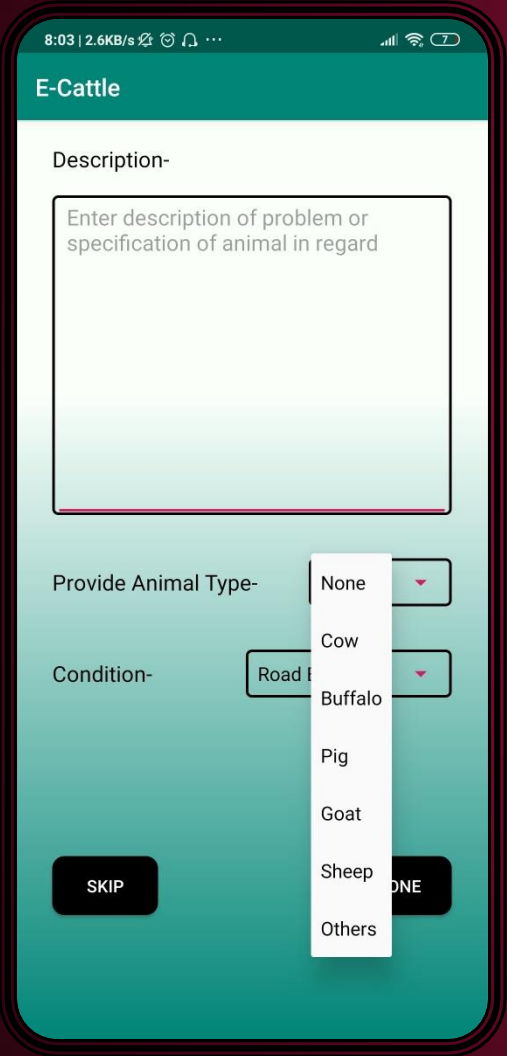
4. AFTER THIS A DESCRIPTION ACTIVITY OPENS WHICH IS OPTIONAL TO FILL



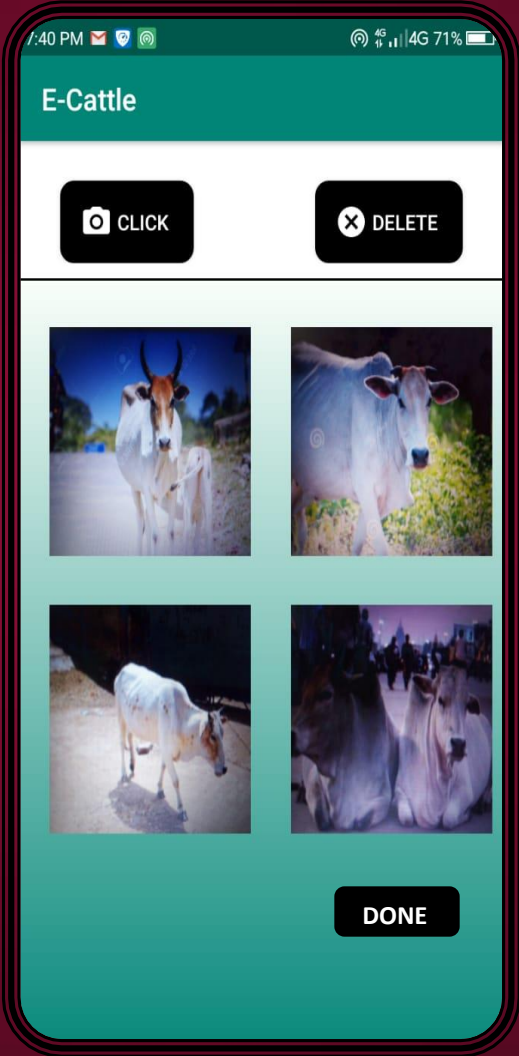
5. HERE USER HAD TO PROVIDE CATTLE DETAILS AND DESCRIBE THE CATTLE



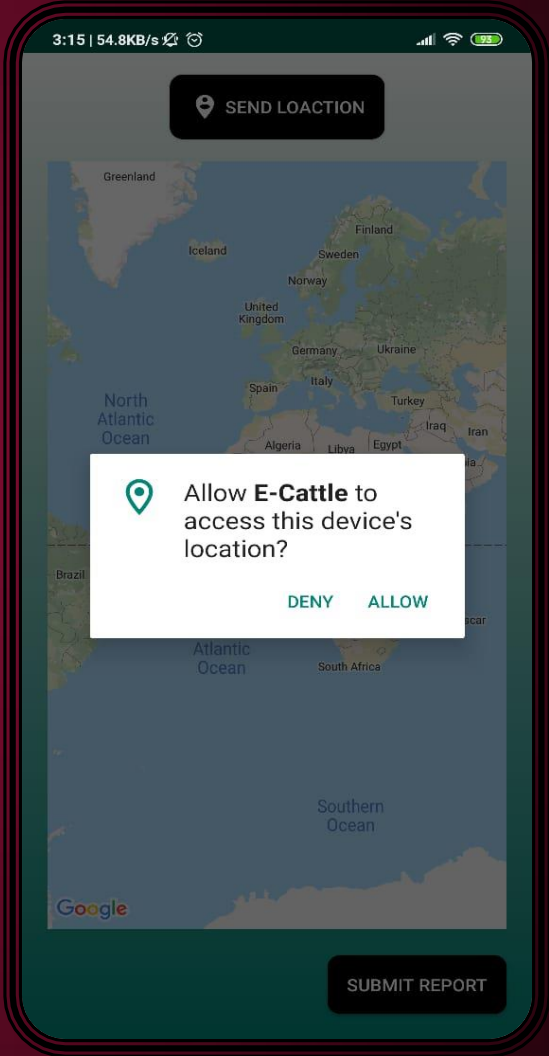
6. IF THE USER GIVE THE DETAILS THEY WILL CLICK “DONE”, “SKIP” IF NOT PROVIDING



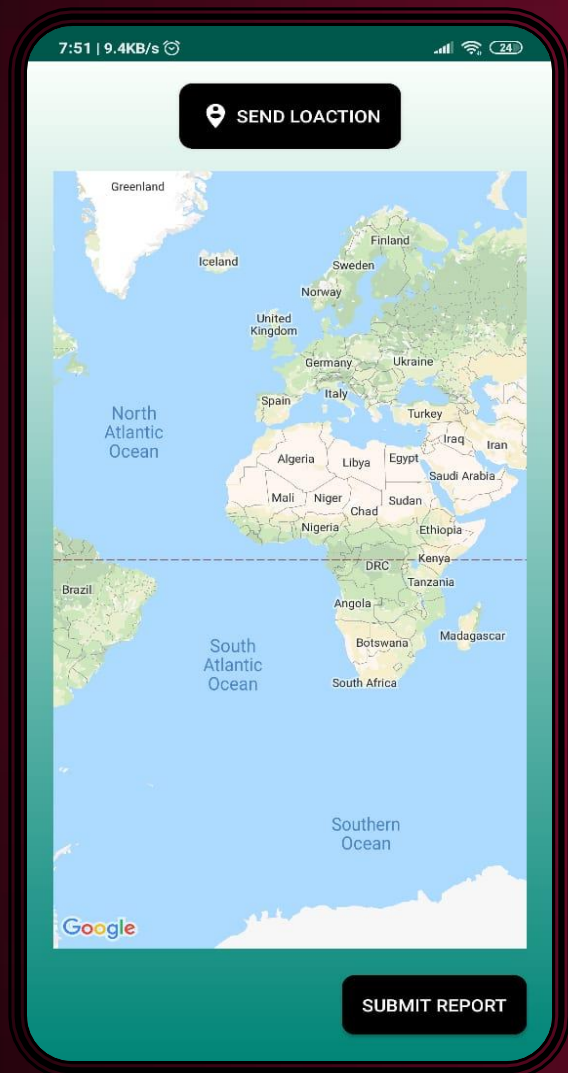
7. AFTER THIS CAMERA ACTIVITY OPENS WHERE USER CAN TAKE IMAGES AND CLICK “DONE”



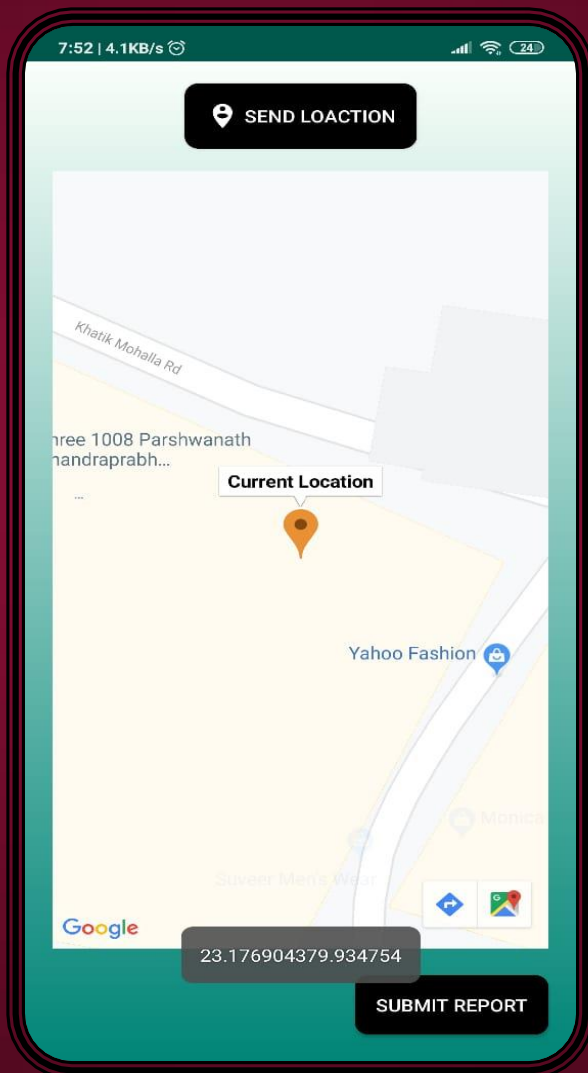
8. AFTER CAMERA ACTIVITY LOCATION ACTIVITY OPENS WHICH ASKS USER TO GIVE ACCESS PERMISSION



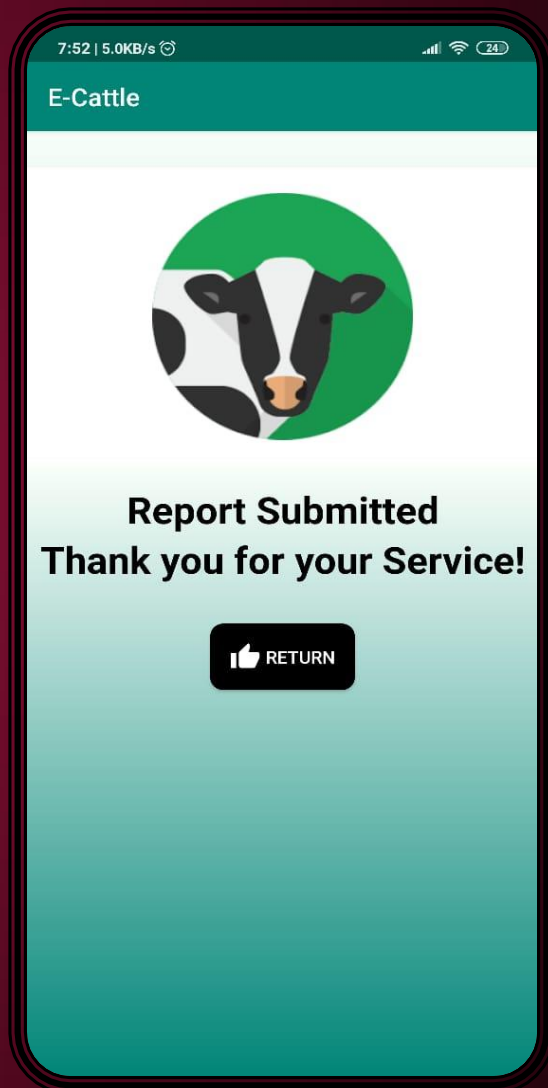
9. WHEN USER CLICK ON “SEND LOCATION” IT SEARCH FOR CURRENT LOCATION



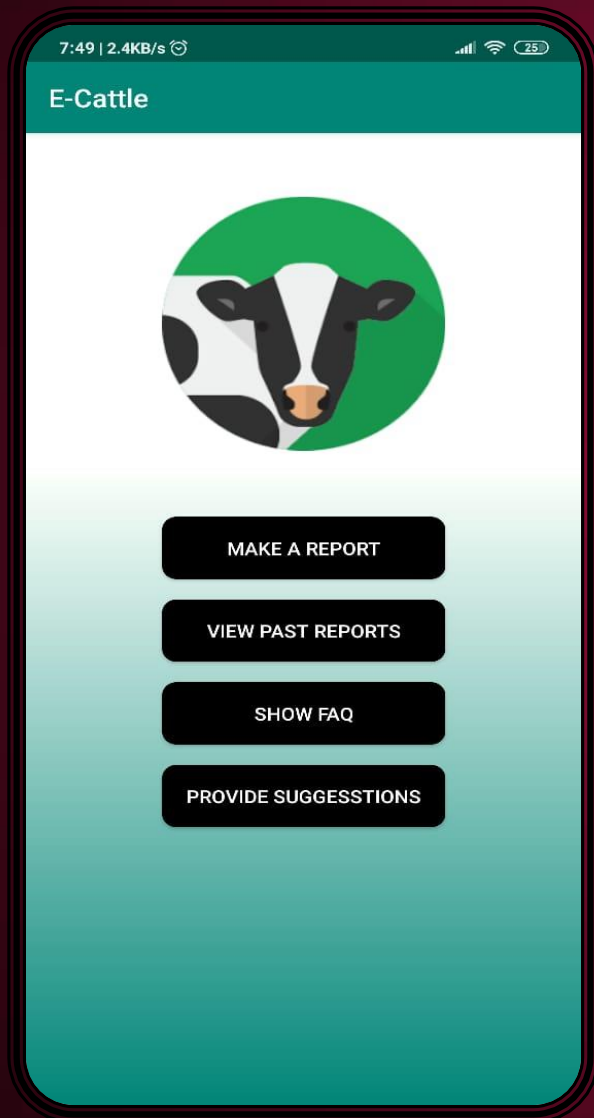
10. WHEN CURRENT LOCATION IS FOUND USER WILL CLICK ON “SUBMIT REPORT”



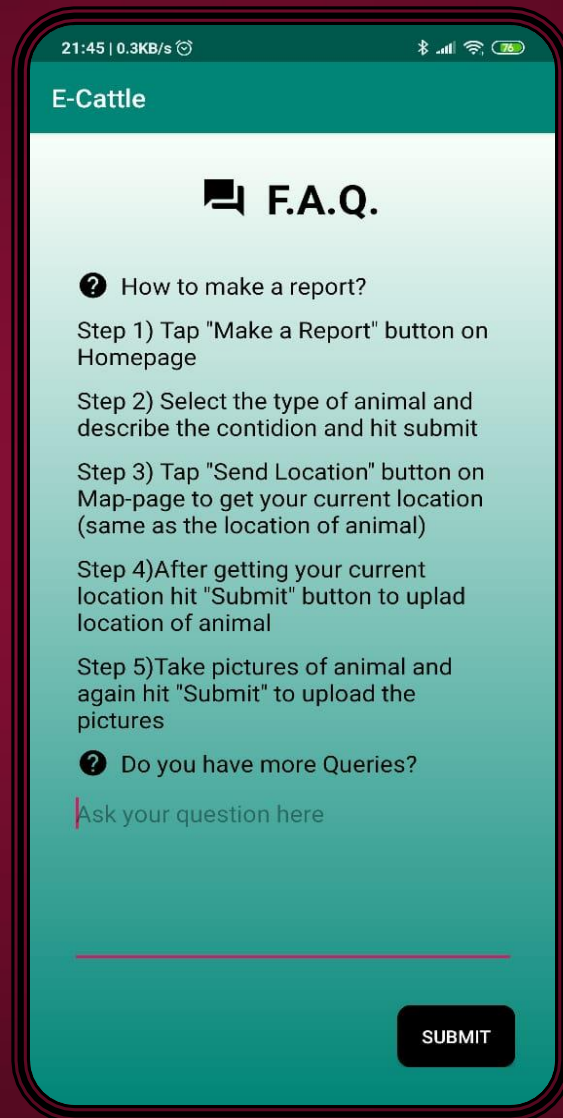
11. WHEN REPORT IS SUBMITTED A ACTIVITY IS SHOWN OF SUCCESSFUL SUBMISSION



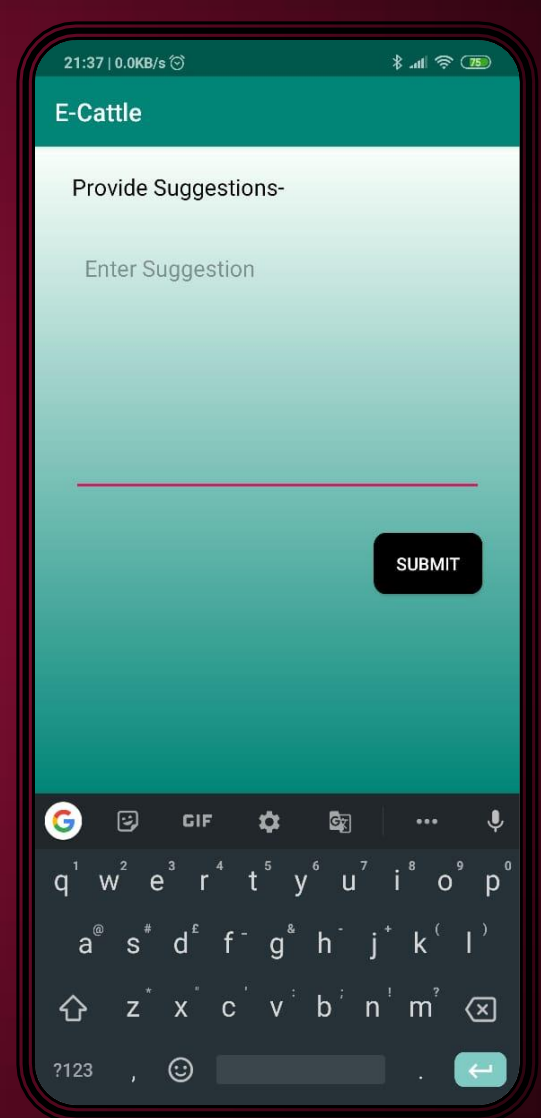
12. IF A USER CLICKS ON
"RETURN" THEY WILL
COME TO MAIN MENU



13. WHEN USER CLICK ON
"SHOW FAQ" THE ACTIVITY
SHOWN BELOW WILL OPEN

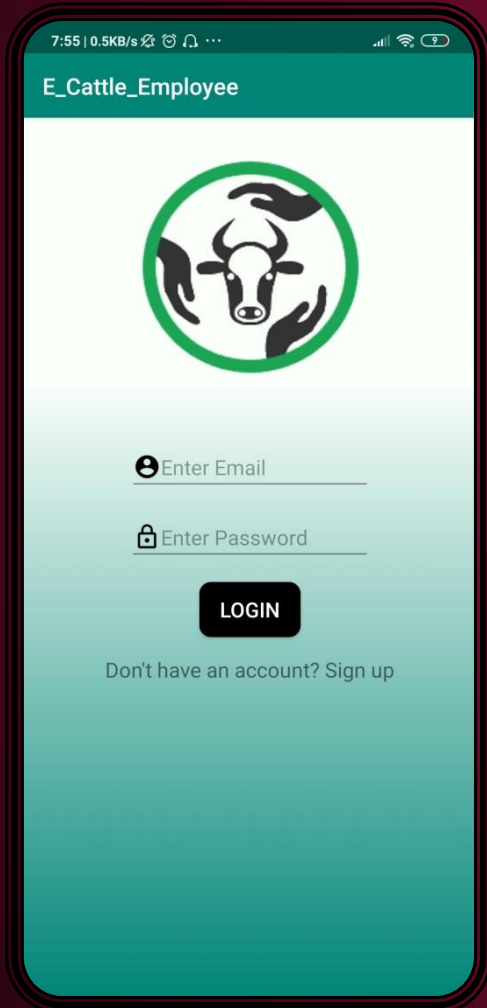


14. WHEN USER CLICK ON
"PROVIDE SUGGESSTIONS"
THIS ACTIVITY OPENS

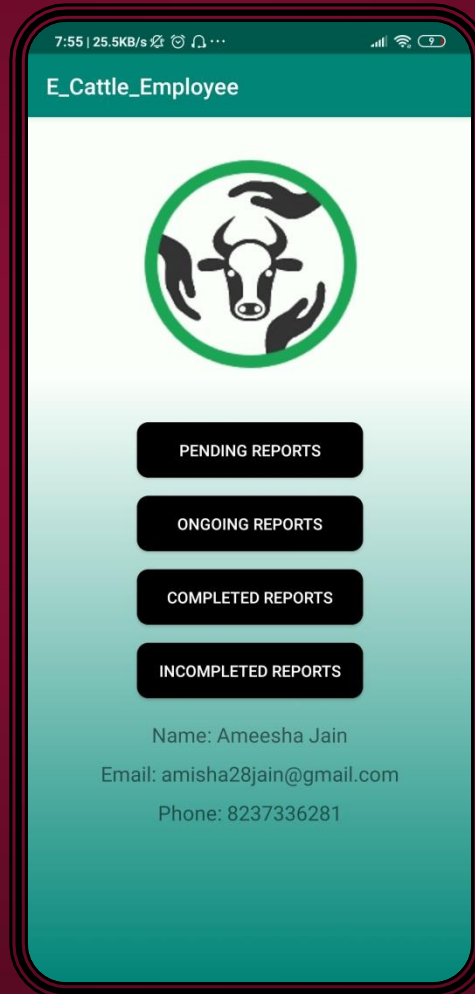


MUNICIPAL EMPLOYEE USING OUR APP

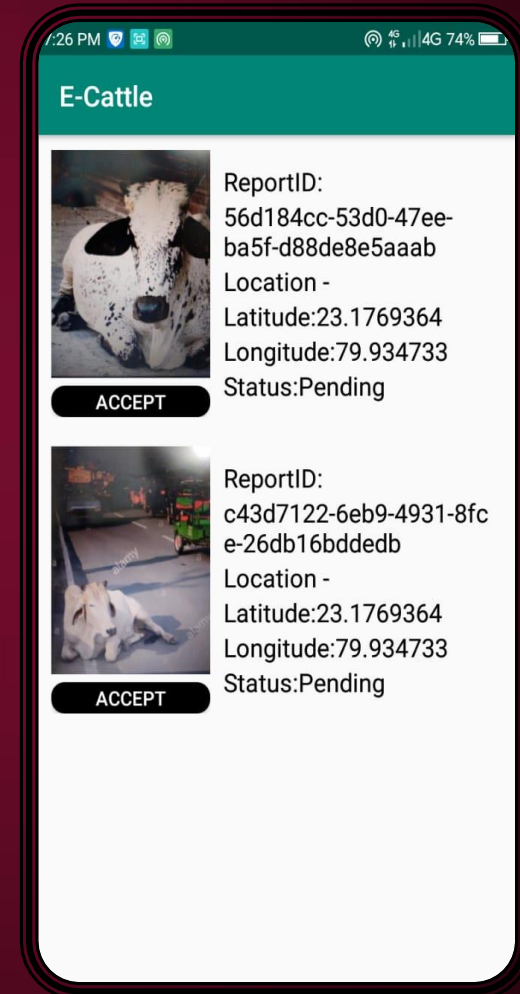
1.LOGIN PERFORMED BY THE
MUNICIPAL EMPLOYEE



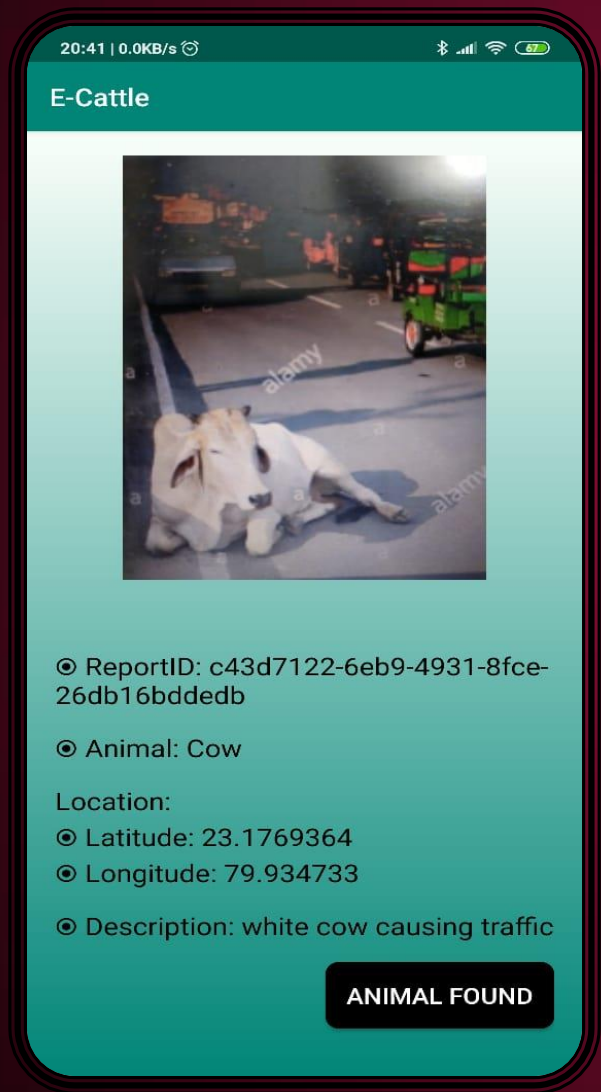
2. AFTER SUCCESSFUL LOGIN
THE ACTIVITY SHOWN BELOW
OPENS



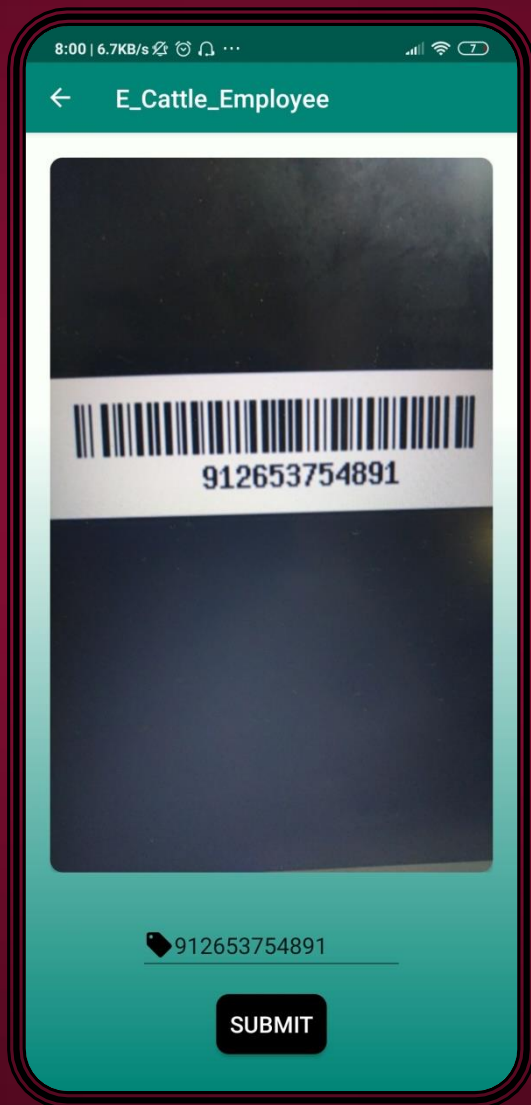
3. WHEN WORKER CLICK ON
“PENDING REPORTS” THE
ACTIVITY SHOWN OPENS



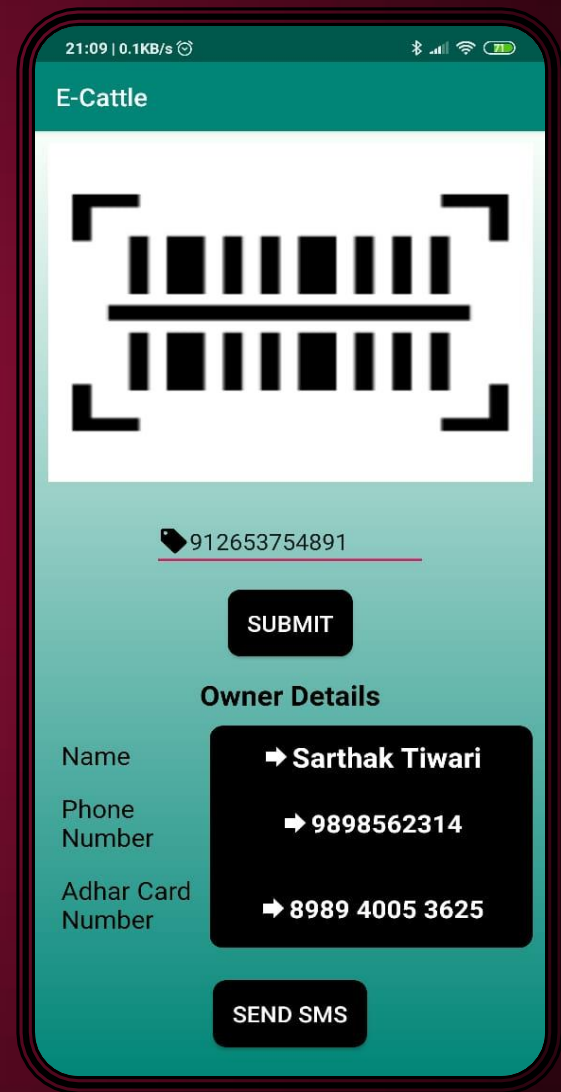
4. WHEN WORKER “ACCEPT” THE REPORT , THE ACTIVITY SHOWN BELOW OPENS WHICH SHOW DETAILS OF REPORT



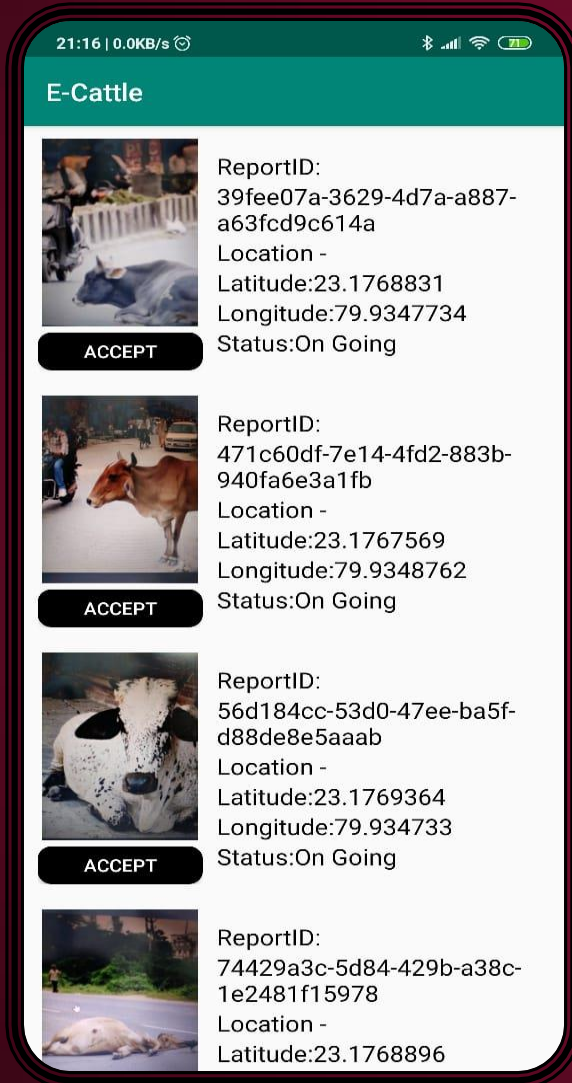
5. WHEN WORKER CLICKS ON “ANIMAL FOUND”ACTIVITY OPENS WHERE TAG ID IS ENTERED AND OWNER DETAILS ARE RECIEVED



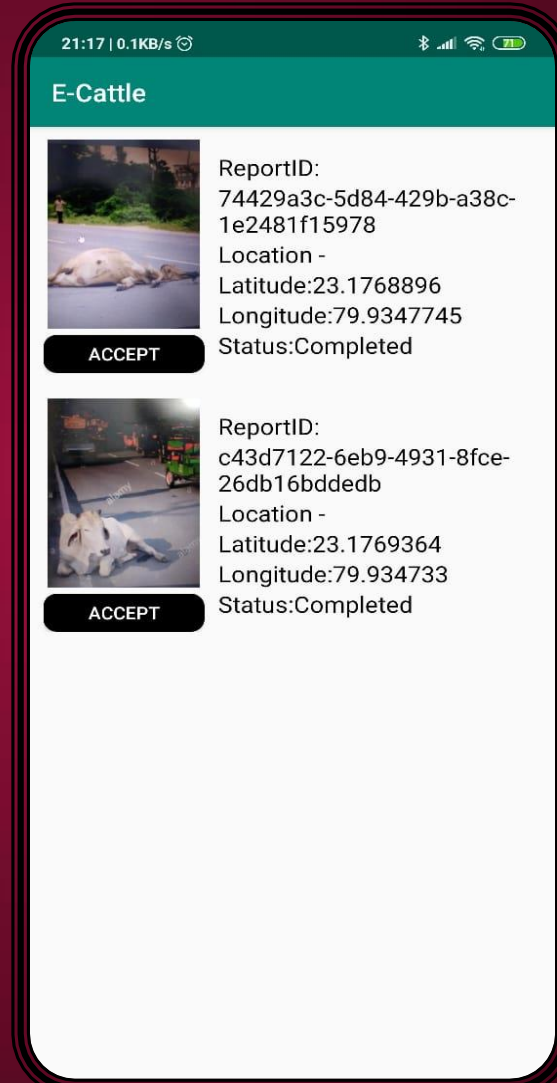
6. WHEN TAG ID IS ENTERED THE DETAILS OF OWNER ARE RECIEVED



7. WHEN THE WORKER CLICKS ON "ONGOING REPORTS" THE ACTIVITY SHOWN BELOW OPENS

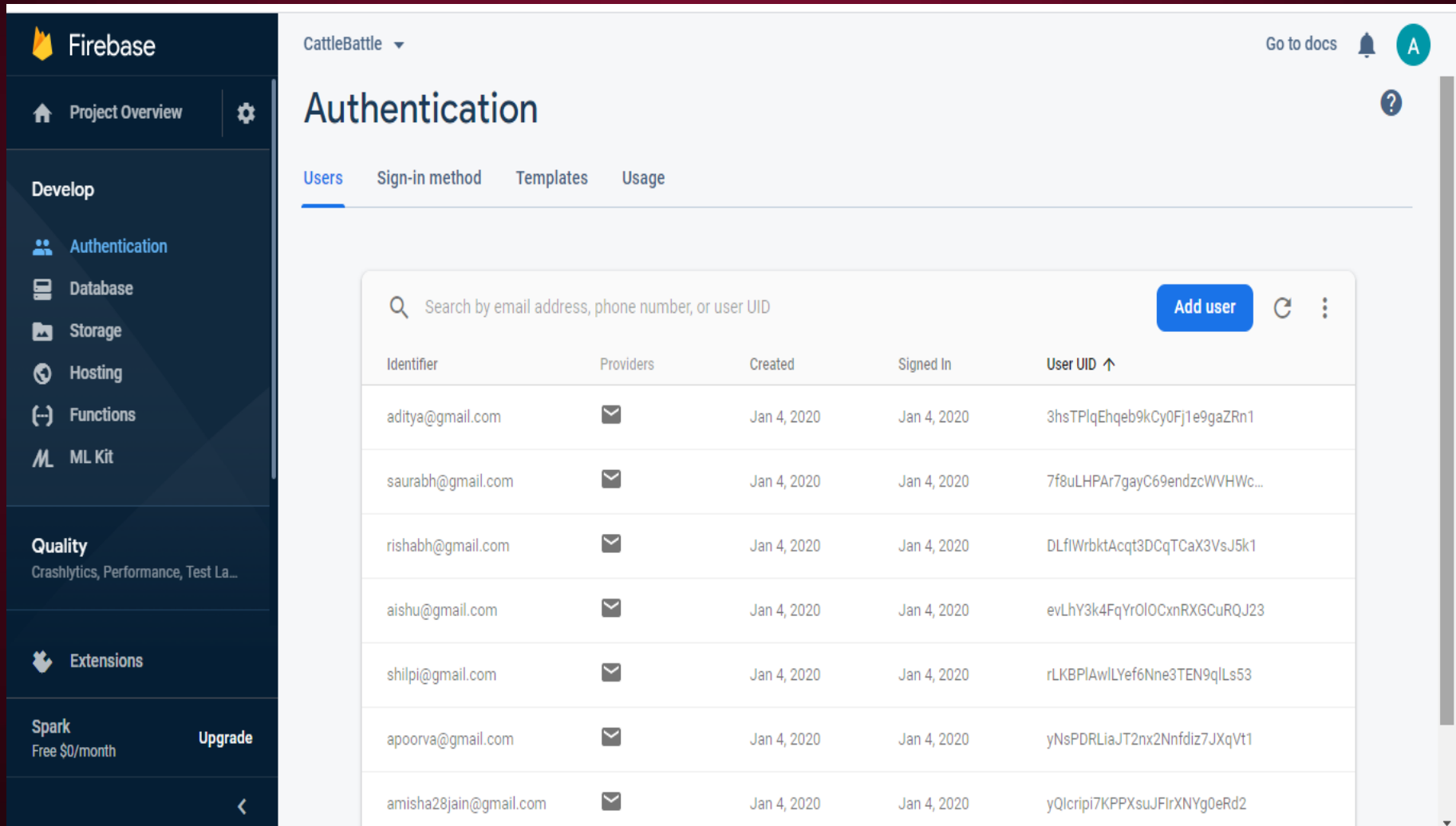


8. WHEN THE EMPLOYEE CLICKS ON "COMPLETED REPORTS" THE REPORTS ON WHICH ACTION ARE COMPLETED ARE SHOWN



DATABASE CONNECTIVITY OF OUR APP

1. WHEN A WORKER LOGIN INTO OUR APP THEN THERE LOGIN INFO. IS STORED OUR DATABASE AND EACH WORKER IS ASSIGNED A UNIQUE USER UID.



The screenshot displays the Firebase Authentication console for the project 'CattleBattle'. The left sidebar contains navigation links for Project Overview, Develop (Authentication, Database, Storage, Hosting, Functions, ML Kit), Quality (Crashlytics, Performance, Test Lab), and Extensions. The main content area shows the 'Users' tab with a search bar and an 'Add user' button. Below the search bar is a table listing users with columns for Identifier, Providers, Created, Signed In, and User UID.

Identifier	Providers	Created	Signed In	User UID ↑
aditya@gmail.com	✉	Jan 4, 2020	Jan 4, 2020	3hsTPlqEhqe9kCy0Fj1e9gaZRn1
saurabh@gmail.com	✉	Jan 4, 2020	Jan 4, 2020	7f8uLHPAr7gayC69endzcWVHWc...
rishabh@gmail.com	✉	Jan 4, 2020	Jan 4, 2020	DLfIWrbktAcqt3DCqTCaX3VsJ5k1
aishu@gmail.com	✉	Jan 4, 2020	Jan 4, 2020	evLhY3k4FqYrOIOcXnRXGCuRQJ23
shilpi@gmail.com	✉	Jan 4, 2020	Jan 4, 2020	rLKBPIAwlLYef6Nne3TEN9qILs53
apoorva@gmail.com	✉	Jan 4, 2020	Jan 4, 2020	yNsPDRLiaJT2nx2Nnfdiz7JXqVt1
amisha28jain@gmail.com	✉	Jan 4, 2020	Jan 4, 2020	yQlcripi7KPPXsuJFfirXNYg0eRd2

2. WHEN A USER SUBMIT THE LOCATION AND IMAGE OF THE CATTLE AND DETAILS ARE STORED IN THE DATABASE AND UNIQUE REPORT ID IS GENERATED

Project Overview

Develop

Authentication

Database

Storage

Hosting

Functions

ML Kit

Quality

Crashlytics, Performance, Test La...

Analytics

Dashboard, Events, Conversions, A...

Extensions

CattleBattle Database

Go to docs

yQlcripi7KPPXsuJFlrXNYg0eRd2

Reports

055b2d8d-67c9-4213-84ce-b24d74a1f289

Animal: "Cow"

Description: "A White Cow"

56d184cc-53d0-47ee-ba5f-d88de8e5aaab

Animal: "Cow"

Description: "white cow with black spots causing traf"

Images

image_0: "https://firebasestorage.googleapis.com/v0/b/foc"

Latitude: 23.176936

Longitude: 79.93473

Status: "Pending"

c43d7122-6eb9-4931-8fce-26db16bddedb

Animal: "Cow"

Description: "white cow causing traffi"

Images

Image_0: "https://firebasestorage.googleapis.com/v0/b/foc"

Latitude: 23.176936

Longitude: 79.93473

Status: "Pending"

3. THE IMAGES SUBMITTED BY USER IS STORED IN STORAGE SECTION OF DATABASE AND CAN BE ACCESSED WITH THE HELP OF USER UID AND REPORT ID

Project Overview

Develop

Authentication

Database

Storage

Hosting

Functions

ML Kit

Quality

Crashlytics, Performance, Test La...

Extensions

Spark

Free \$0/month

Upgrade

CattleBattle

Storage

Go to docs

Upload file

Name	Size	Type	Last modified
image_0	43.21 KB	image/jpeg	Jan 4, 2020

image_0

Name

[image_0](#)

Size

44,251 bytes

Type

image/jpeg

Created

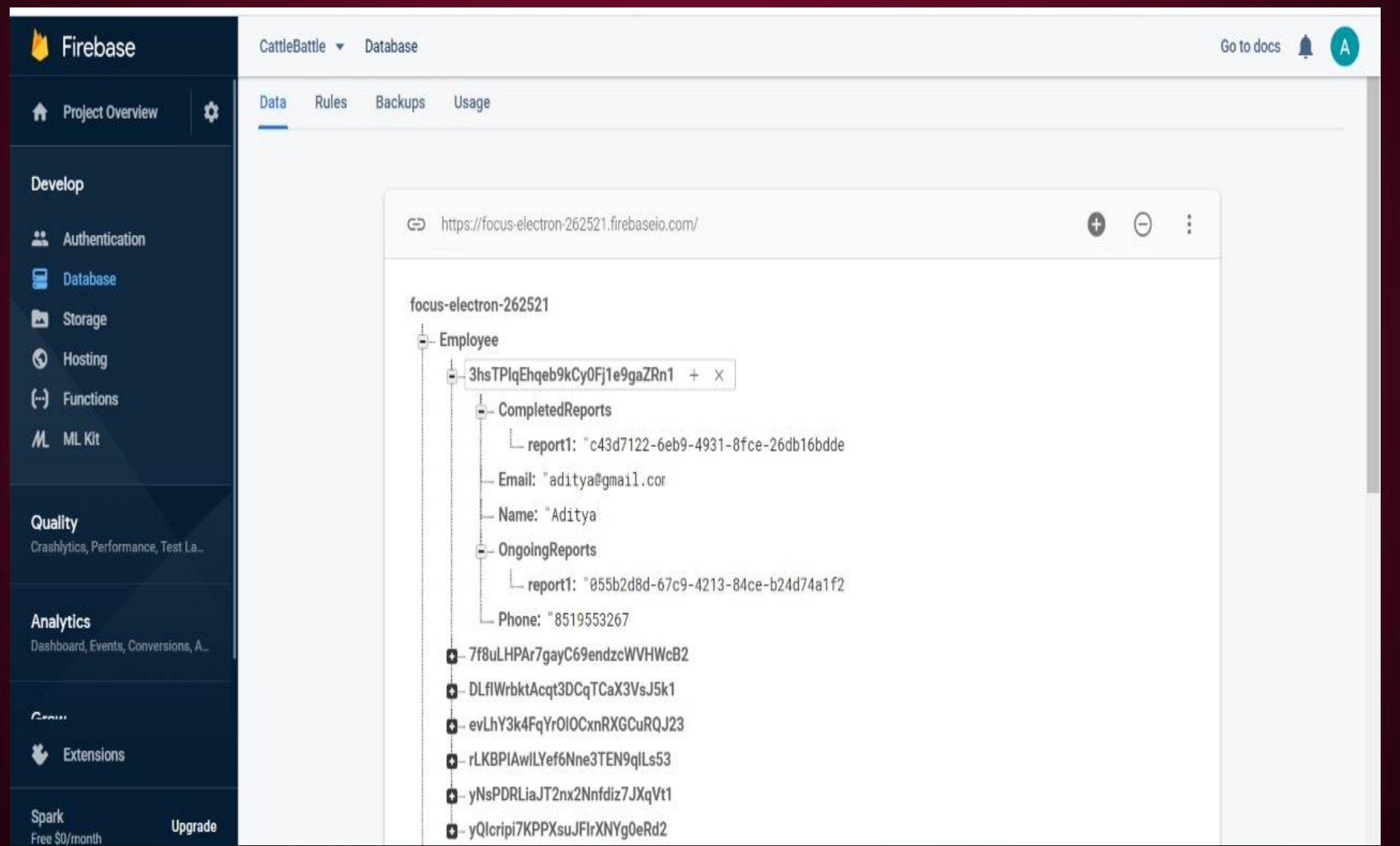
Jan 4, 2020, 4:38:05 AM

Updated


Jan 4, 2020, 4:38:05 AM

File location



4. THE BELOW DATABASE IMAGE SHOWS THE STATUS OF REPORT THAT IS THE ACTION TAKEN BY THE MUNICIPAL ON THE REPORT SUBMITTED BY THE USER





CATTLE EAR TAG DATABASE


 **Firebase**


CattleBattle ▾ Database


Go to docs  


 Project Overview 


Develop


 Authentication

 **Database**


 Storage

 Hosting


 Functions


 ML Kit

Quality
Crashlytics, Performance, Test La...


 Extensions


Spark
Free \$0/month **Upgrade**


 TagID

 912653754891


- Aadhar: "8989 4005 3625"
- Name: "Sarthak Tiwari"
- Phone: 989856231

 913216549587


- Aadhar: "2580 3690 1470" 
- Name: "Rishabh Gupta"
- Phone: 822601548

 913692581472

- Aadhar: "5479 6281 3594"
- Name: "Shivam Singh"
- Phone: 975846120

 914268713950

- Aadhar: "5913 2674 8005"
- Name: "Ranjan Kumar"
- Phone: 951753852

 914578963210

- Aadhar: "3917 2846 5005"
- Name: "Raju Shrivastava"
- Phone: 965432018

TECHNOLOGY STACK



FRONT END:

**ANDROID
STUDIO**



BACK END:

**FIREBASE
DATABASE**



LANGUAGE:

JAVA



FINE IMPOSED BY GOVERNMENT OF GOA



The Goa State Government has made certain rules regarding the fine system of the state. When the cattle is captured by the municipal and the owner claims it then following penalty rules are imposed. The rules are as follows :-

- If the stray cattle is claimed within a period of 7 days -> Fine of Rs.3000/- plus delivery charges is imposed.
- If stray cattle is claimed beyond a period of 7 days but within 15 days -> Fine of Rs.5000/- is imposed.
- Subsequent or frequent impounding will attract increased charges @ 20% extra on each escape.

2012 LIVESTOCK CENSUS

DISTRICT	TOTAL EXOTIC CATTLE	TOTAL INDIGENOUS CATTLE	TOTAL CATTLE
NORTH GOA	9564	20458	30022
SOUTH GOA	7962	19496	27458
STATE TOTAL	17526	39954	57480

STATISTICS

The data in the table is obtained from the site ***Data.gov.in***. These statistics are issued by ***Ministry Of Agriculture And Animal Welfare , Department Of Animal Husbandry, Dairying And Fisheries.***

2012 STRAY CATTLE CENSUS

DISTRICT	STRAY CATTLE
NORTH GOA	4301
SOUTH GOA	2882
STATE TOTAL	7183

- ❑ ***12.5% cattle is stray.***
- ❑ ***87.5% cattle are registered and not stray.***
- ❑ ***If fines are imposed only on the stray cattle which are owned once, the REVENUE GENERATED will be approx. 2 CRORE.***

DEPENDENCIES

- 1. OUR SOLUTION WILL DEPEND ON THE DATABASE OF EAR TAG MAINTAINED BY GOVERNMENT WHEN IMPLEMENTED.**
- 2. ALL THE OWNED CATTLES ARE REQUIRED TO BE TAGGED SO THAT THERE DETAILS ARE PRESENT IN DATABASE AND MUNICIPAL CAN ACCESS IT IN ORDER TO INFORM THE OWNER ABOUT THERE CATTLE WHICH IS CAUGHT AS STRAY.**
- 3. OUR SOLUTION DEPEND ON THE READINESS AND EFFICIENCY OF THE MUNICIPAL WORKERS.**

CONCLUSION

OUR APP CAN BE USED TO PERFORM FUNCTIONS LISTED BELOW:

1. REPORTING : OUR APP IS CAPABLE FOR DYNAMICALLY REPORTING STARY CATTLES TO MUNICIPAL.
2. DATA GATHERING : OUR APP WILL HELP GOVERNMENT IN GATHERING CENSUS OF STRAY CATTLE IN THE STATE.
3. FINDING THE OWNER : OUR APP WILL HELP MUNICIPAL TO FIND THE OWNER OF OWNED CATTLE WHICH IS FOUND STRAY , INFORM THEM AND IMPOSE FINE .
4. DATA ANALYTICS : THROUGH THE DATA COLLECTED BY OUR APP WE CAN ANALYZE THE NUMBER OF ACCIDENTS CAUSED BY CATTLE