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Organic product farmer helper system with sentimental analysis

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ABSTRACT

Agriculture started thousands of years ago, but no one knows for sure how old it is. Agriculture is not only growing food for people and animals but also selling those products effectively. Many people still live by subsistence agriculture, on a small farm. It is important for there to be enough food for everyone. The food must also be safe and good. People say it is not always safe, because it contains some chemicals. Here we launch an application in which different farmers from different locations to can post their raw food products on this website. Only registered farmers will be capable of selling their product through this website. Suppliers and other users can buy the cultivated raw products from the available farmers.

This application helps farmers ensure greater profitability through direct farmer to dealer and farmer to farmer communication. This service boosts business communication and brings transparency to the system. The farmers may also submit their gradients and complaints to respective authority using their farmer login on a separate complaints page and authorities will get access to that page regularly using their login id and passwords.

We have an android application also along with the web. Farmers can have the android app. It provides necessary notifications in real-time. So that he can act upon necessary. Our system also has a section to find the best farmer monthly. We use reviews and ratings of users to find out it.

Keywords: *Organic, Product, Farmer, Sentimental Analysis, Microsoft visual studio 2010, SQL client.*

This project contains four modules

- Admin
- Farmer
- User
- Public user

1. MODULE DESCRIPTION

Admin

Admin can log on to the using userid and password and he can approve/reject farmer he can also add new seeds/crops/fertilizer and manage.

Farmer

A farmer can register to the system and he can enter to the system using the user id and password. He can view the crop/seed/fertilizer and send the request. He can also add the selling product and retrieve the payment.

User

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The user can register and login to the system and he can view the product and send a request and pay amount. He can also view the crop/seed/fertilizer and he can add feedback.

Public user

A public user can search the product but when he wants to buy any product he must register to the system. When a public user registered then he becomes a user.

2. SYSTEM STUDY

A. Existing system

The current system is time-consuming and also it is very costly because it involves a lot of paperwork. To manually handle the system was a very difficult task. But nowadays computerization made easy to work

The following are the reasons why the current system should be computerized:

- To increase efficiency with reduced cost.
- To reduce the burden of paper work.
- To save the management for recording details of each and every member and employee.
- To generate required reports easily.

Limitations of the existing system

a. Time consumption

b. Paper work

c. Storage requirements

d. Less reliable

e. Accuracy

f. Difficulty in keeping new records

To avoid all these limitations and make the system working more accurately it needs to be computerized.

B. Proposed system

Separate login areas with appropriated functionality for farmers, administrators, and users. A separate page where only farmers can post complaints and only assigned administrators can read and edit this page. An effective GUI so that rural person may easily use the service. Can be over for multiple villages to communicate and deal with each other.

The scope of proposed system

The system proposed has many advantages.

- Farmers can directly contact dealers by searching online.
- Farmers may submit their grievances online.
- Farmers get notification of any new offers/schemes.
- Farmers can directly connect with Admin.

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LEVEL 0:

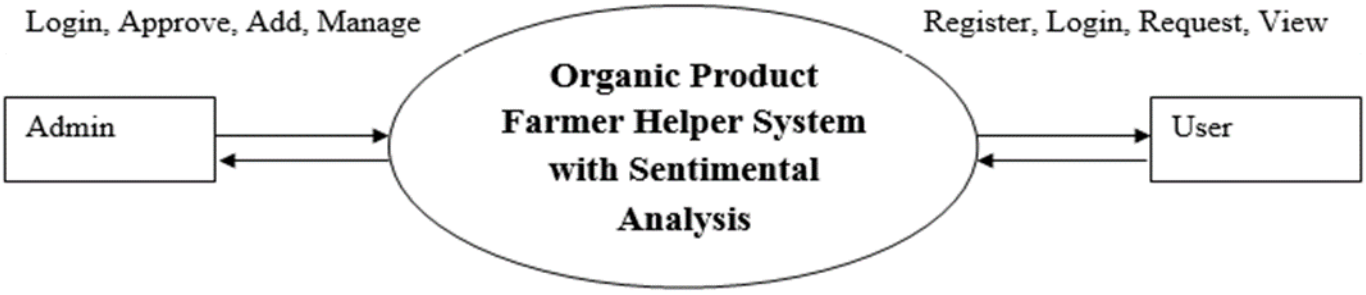

Fig 4.1

LEVEL 1:

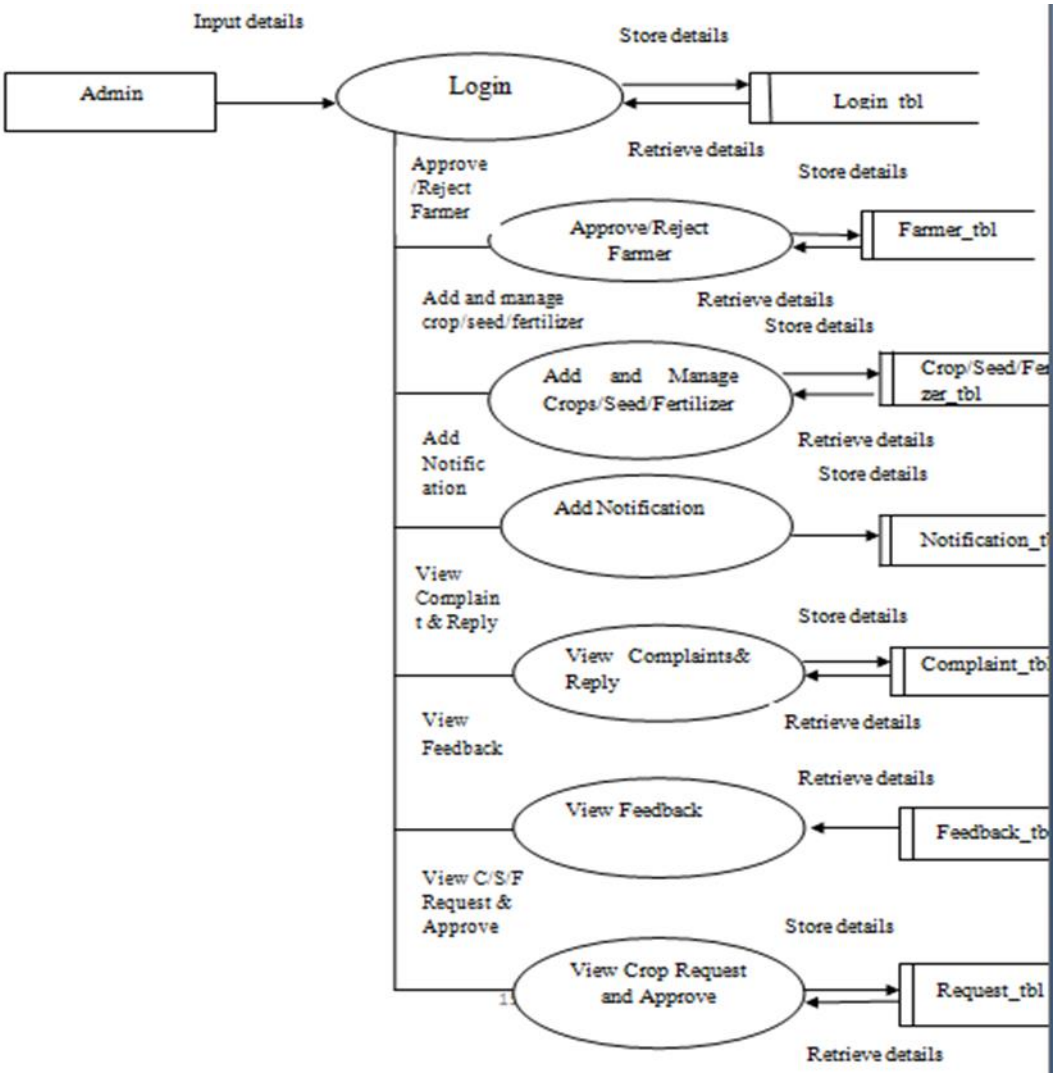

Fig 4.2

Farmer

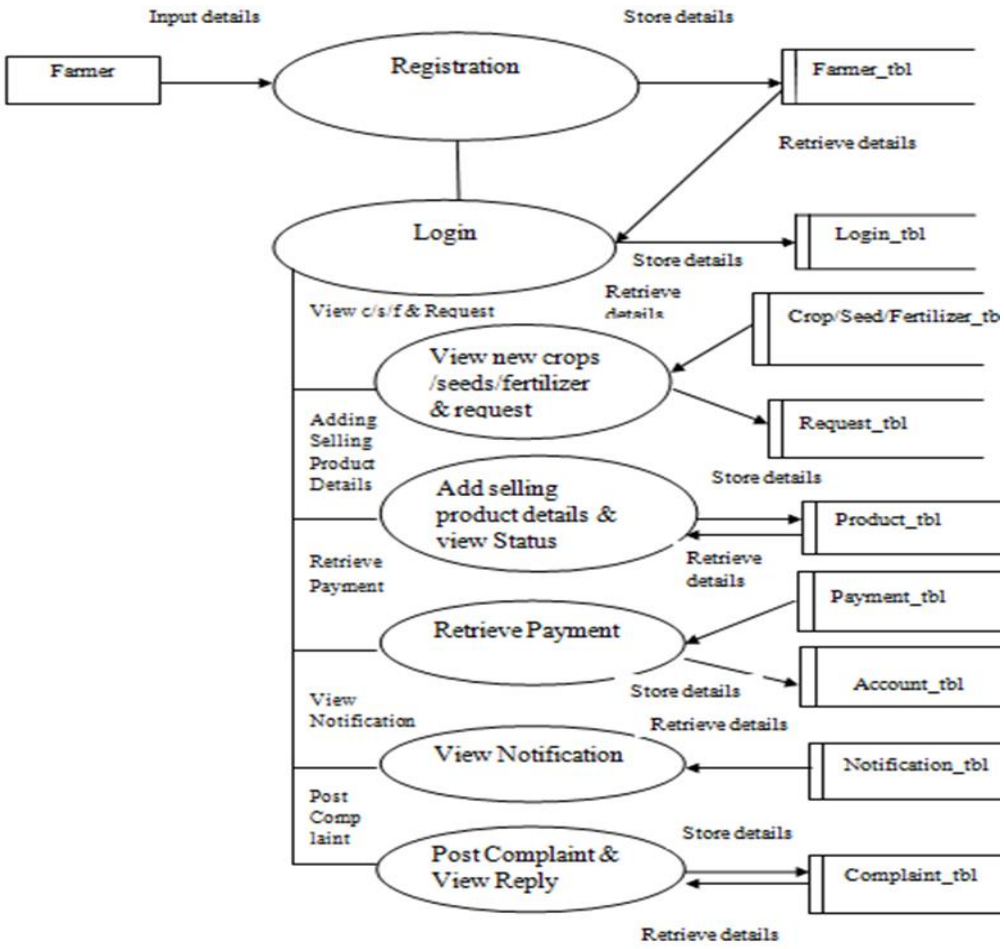

Fig 4.3

User

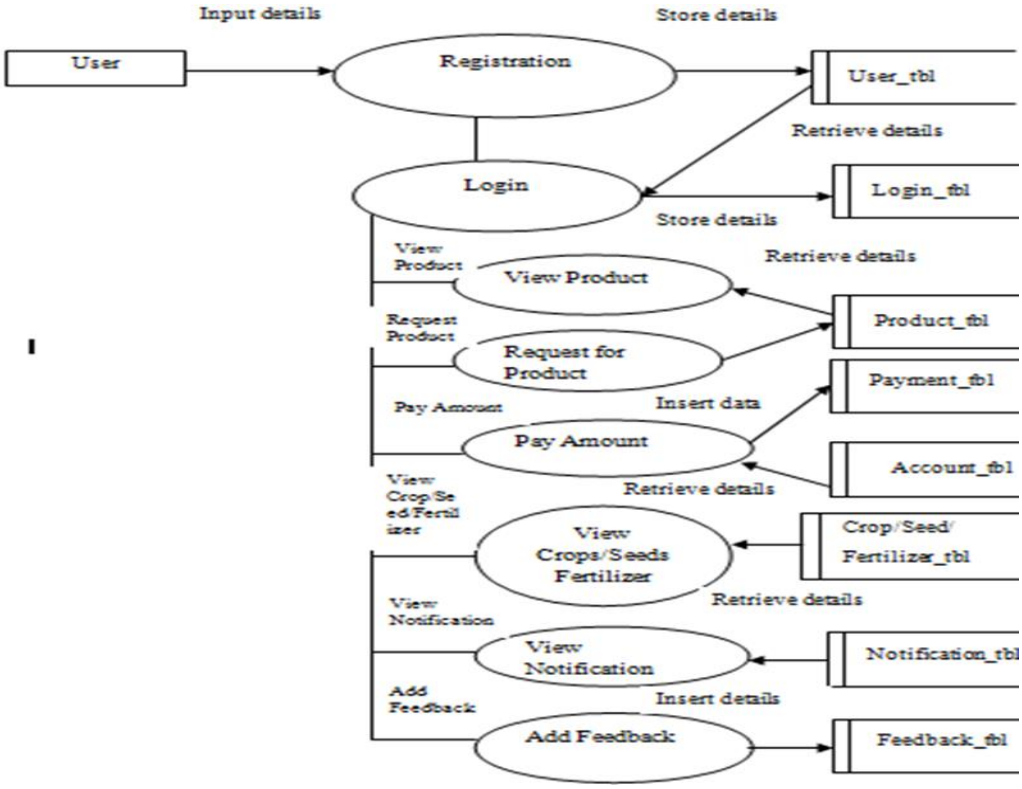

Fig 4.4

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Public User

Fig 4.5

Table design

In the proposed project, 14 tables are used.

- **TABLE NAME:** Login_tbl
  login
  Primary key: Id

Column Name	Data Type	Description
Id	Int	Login id
User_nme	nvarchar	User name
Password	nvarchar	Password
User_typ	nvarchar	User type

- **TABLE NAME:** Farmer

  Farmer Registration

  Primary key: farm_id

Column Name	Data Type	Description
farm_id	Int	Farmer id
Farmer_name	Varchar(50)	Farmer Name
Type	Varchar(50)	Farmer Type
Gender	Int	Gender
Dob	Int	Date of Birth
Email	Varchar(50)	Email
Pin	Int	Pin code
Password	Varchar(50)	Password
Status	Varchar(50)	Status

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- **TABLE NAME:** User_tbl

User Registration

Primary key: u_id

Column Name	Data Type	Description
u _id	Int	User Id
user_name	Varchar(50)	User name
Gender	Varchar(50)	Gender
Address	Varchar(50)	User address
Dob	date-time	Date of Birth
Email	Varchar(50)	Email
Phone	Varchar(50)	Phone
Pin	Int	Pin code
Password	Varchar(50)	Password

- **TABLE NAME :** Product_tbl

Product Details
Primary key: p_id

Column Name	Data Type	Description
F_id	Int	Farmer id
P_id	Int	Product id
Product_name	Varchar(50)	Product name
Price_per_kg	Varchar(50)	Price per kilogram
Stock	Varchar(50)	Total stock

- **TABLE NAME :** Crop/Seed/Fertilizer_tbl

Crop/Seed/Fertilizer Details
Primary key : c_s_f_id

Column Name	Data Type	Description
c_s_f_id	Int	Crop seed fertilizer id
crop/seed/fertilizer_name	Varchar(50)	Crop seed fertilizer name
biological_name	Varchar(50)	Biological name
Quantity	Int	Quantity
Description	Varchar(50)	Description

- **TABLE NAME :** Request_tbl

Request Details
Primary key: r_id

Column Name	Data Type	Description
r_id	Int	Request id
U_id	Int	User Id
User_type	Varchar(50)	User type
Product_name	Varchar(50)	Product name
Quantity	Int	Quantity
Phone	Int	Phone number
Status	Varchar(50)	Status

- **TABLE NAME :** Payment_tbl

Payment Details
Primary key: pay_id

Column Name	Data Type	Description
pay_id	int	Payment id
U_id	nvarchar	User Id
p_id	int	Product id
Amount	nvarchar	Amount

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- **TABLE NAME :** Complaint_tbl
  Complaint Details
  Primary key : c_id

Column Name	Data Type	Description
c_id	int	Complaint id
farm_id	int	Farmer id
Complaint	Varchar(50)	Complaint
Reply	Varchar(50)	Reply

- **TABLE NAME:** Feedback_tbl
  Feedback
  Primary key: f_id

Column Name	Data Type	Description
f_id	int	Feedback id
u_id	int	User id
feedback	Varchar(50)	Feedback

- **TABLE NAME :** Notification_tbl
  Notification
  Primary key : n_id

Column Name	Data Type	Description
n_id	int	Notification id
notification	Varchar(50)	Notification

- **TABLE NAME:** Weight_tbl
  Weight Details
  Primary key: acc_id

Column Name	Data Type	Description
Weight_id	int	Weight id
Weight	int	Weight
Word	Varchar(50)	Word

- **TABLE NAME :** Stemmer_tbl
  Stemmer
  Primary key : acc_id

Column Name	Data Type	Description
Stemmer_id	int	Stemmer id
Stemmer_word	Varchar(50)	User id

- **TABLE NAME:** Review_tbl
  Review Details
  Primary key: id

Column Name	Data Type	Description
id	int	Review id
Farm_id	int	Farmer id
Rating	Varchar(50)	Rating Farmer

- **TABLE NAME:** Rate_tbl
  Rate Options
  Primary key: rat_id

Column Name	Data Type	Description
rat_id	int	Rate id

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Request_id	int	Request id
Product_quality	Varchar(50)	Product Quality
Behavior	Varchar(50)	Behavior of farmer
Root_description	Varchar(50)	Root Description

3. CONCLUSION

The system that I developed was implemented and tested with real data and were found to be error free. Also, it is found the system will work successfully. I tried to make the system maximum user-friendly. The system is protected from any unauthorized access by giving user name and password during the login process.

This project will be helpful for the organic farmer. Farmers can sell their products without a dealer. In the existing system, farmers can sell their products only in the markets. So that they will not get the expected profit due to bargain system, which is not possible through online. In the proposed system rating option so that users can choose better farmer according to the rate review.

All the necessary validations are carried out in this project so that any kind of users can make use of this software. It asks users to re_browse the image and the manual for the item to be modified.

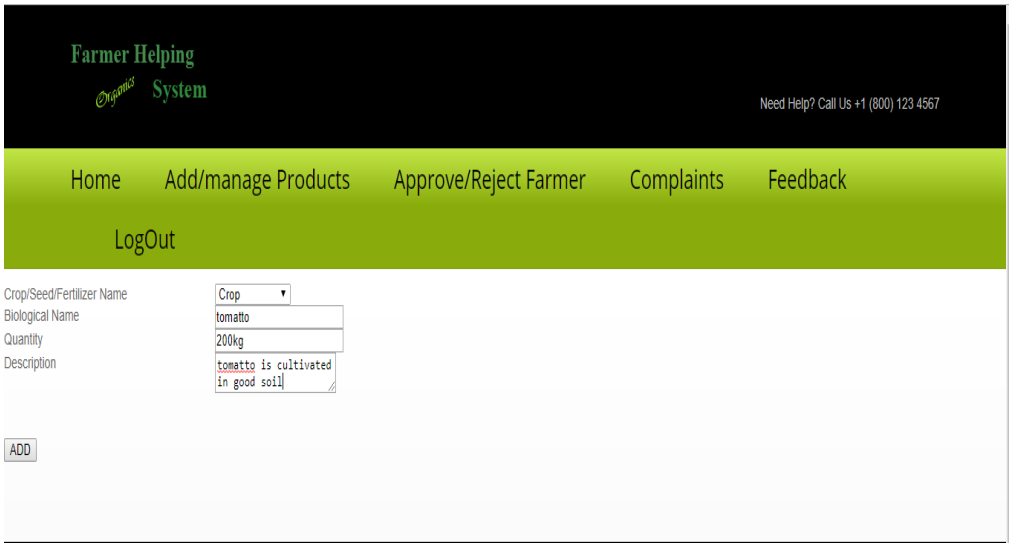
4. SCREEN SHOTS

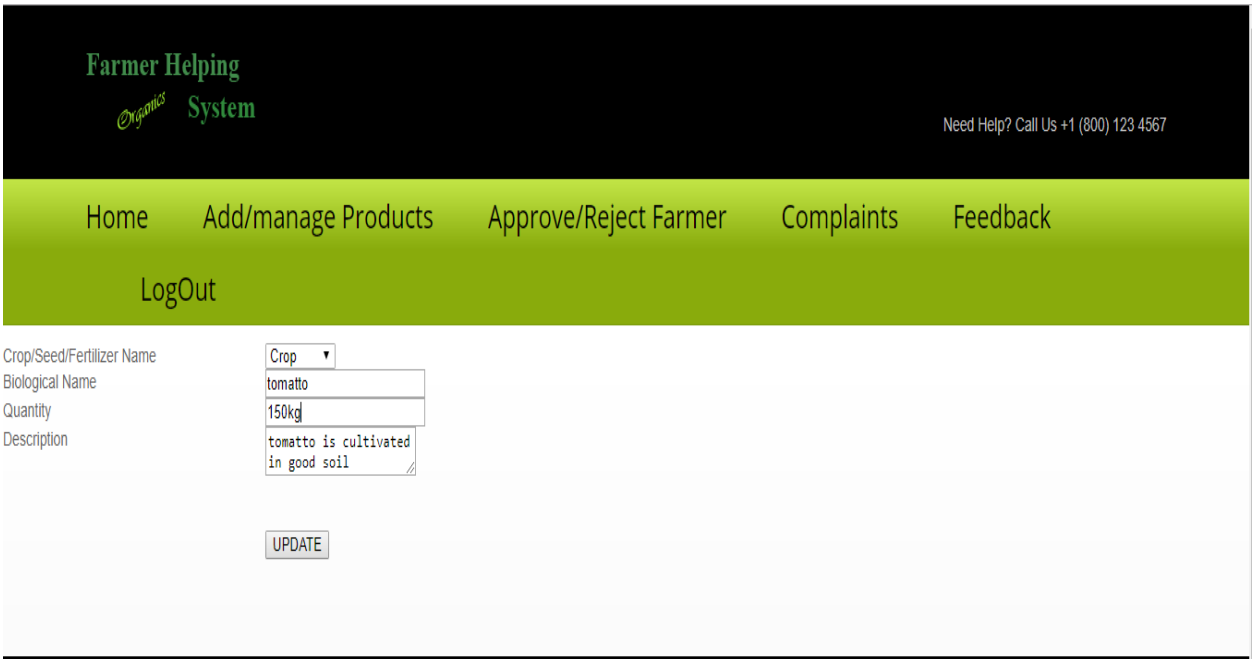
Admin module

Home page

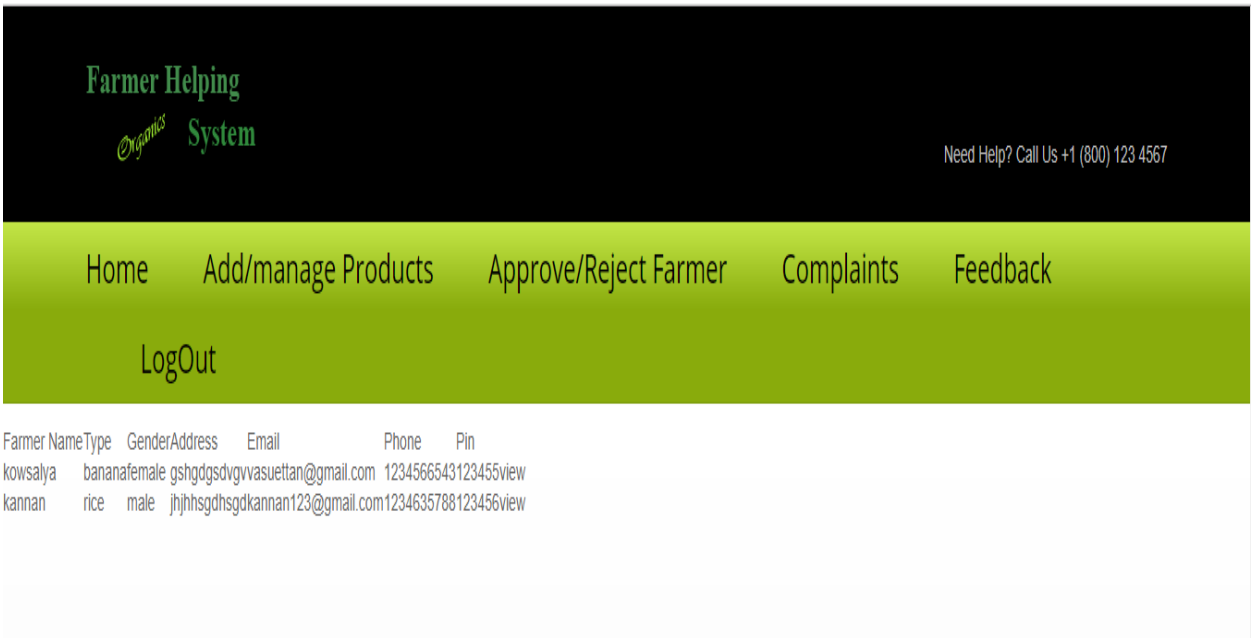
ADMIN LOGIN

ADD/MANAGE CROP/SEED/FERTILIZER





Approve/reject farmer



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Complaint & view reply

Feedback

ADD NOTIFICATION

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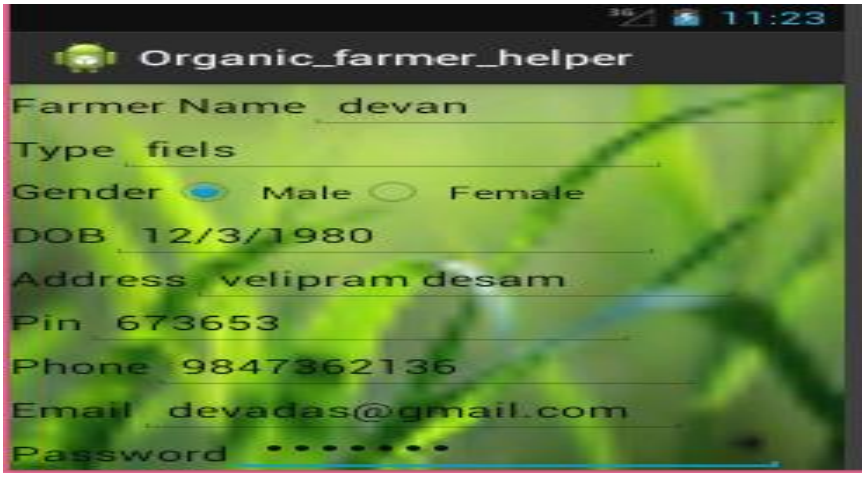
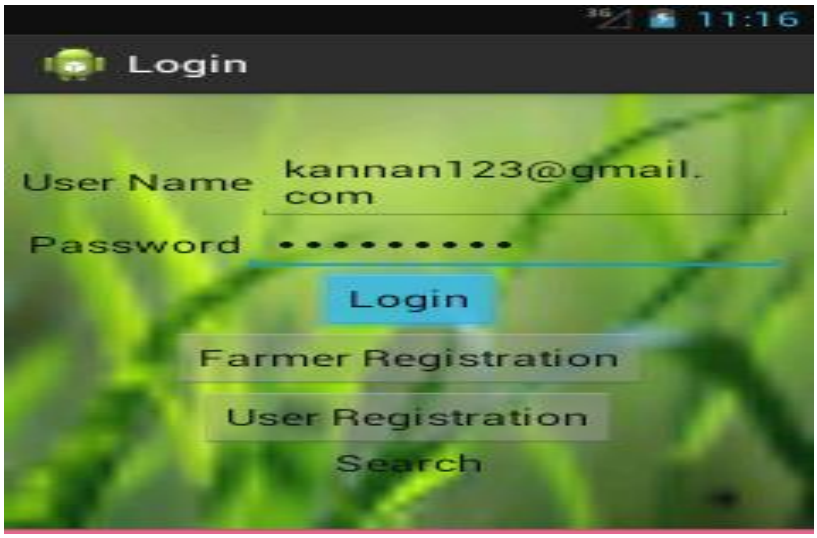
Farmer module

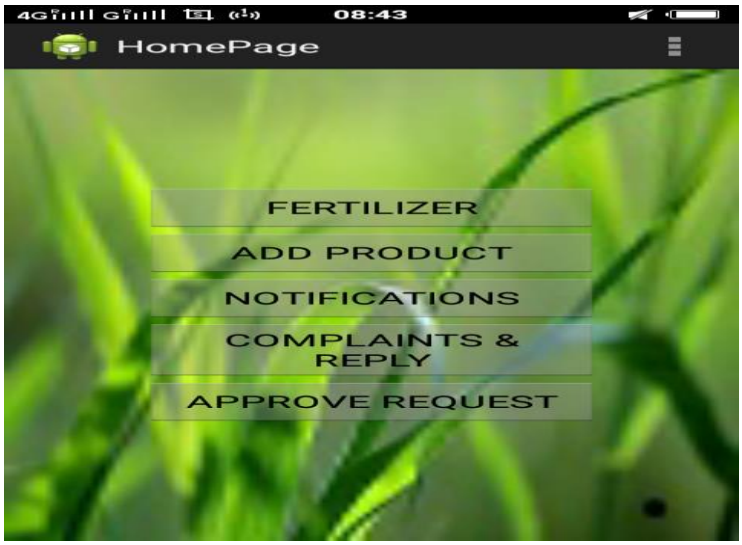
Registration



Login



Homepage



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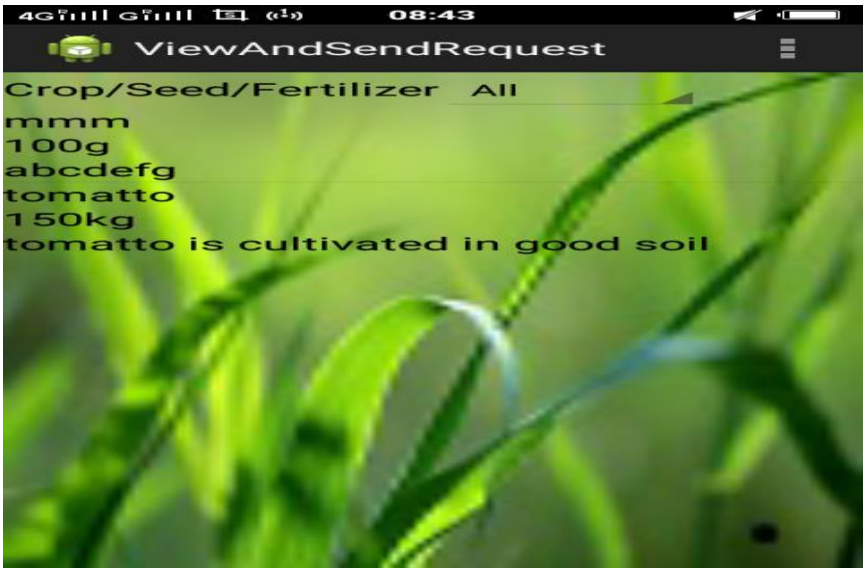
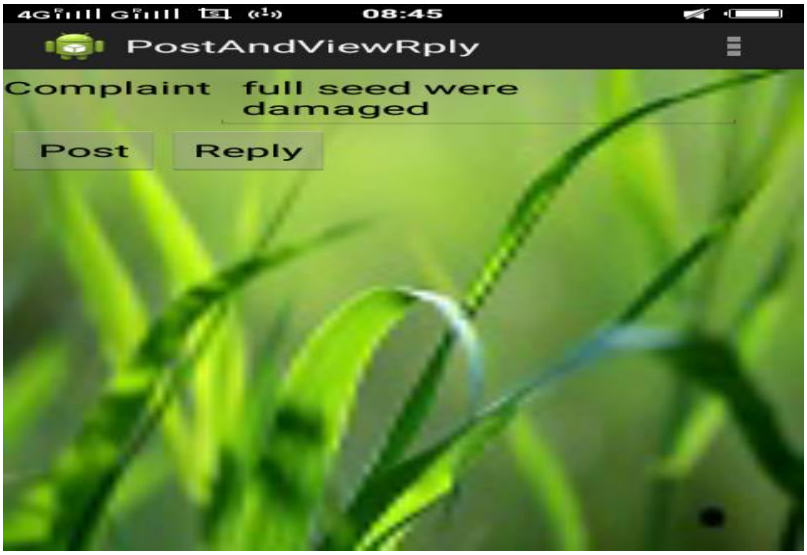
View crop/seed/fertilizer



Add selling product

Complaint & view reply



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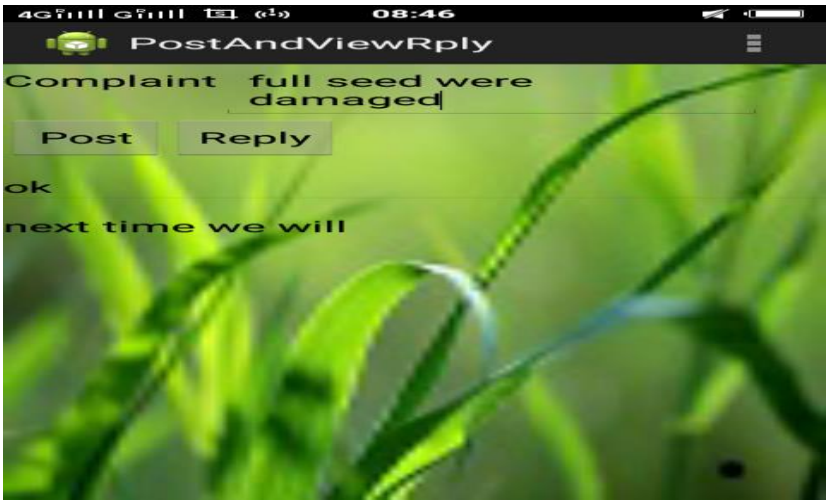
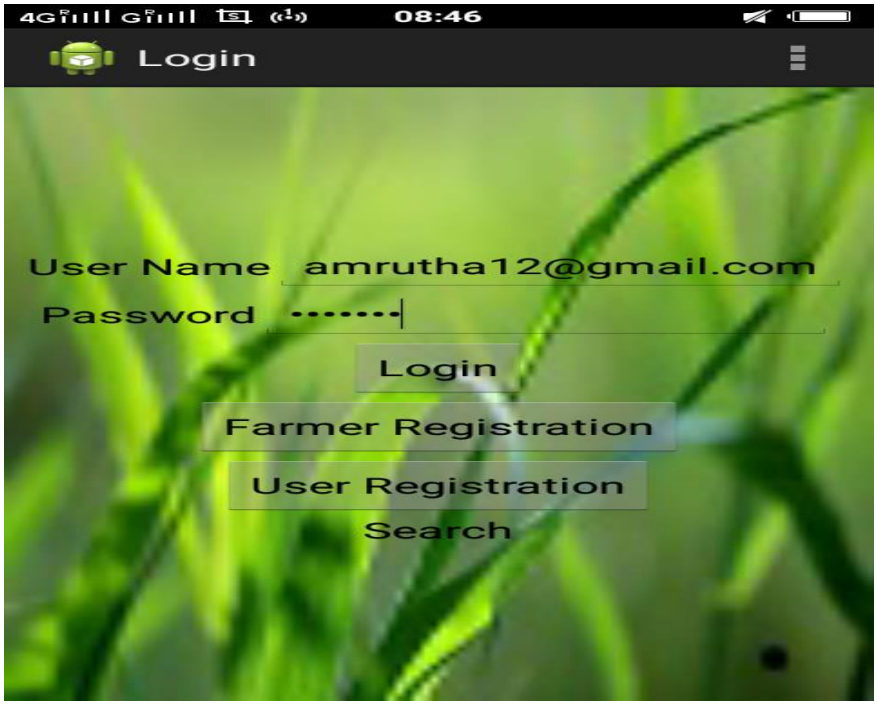


User module

Registration

Login



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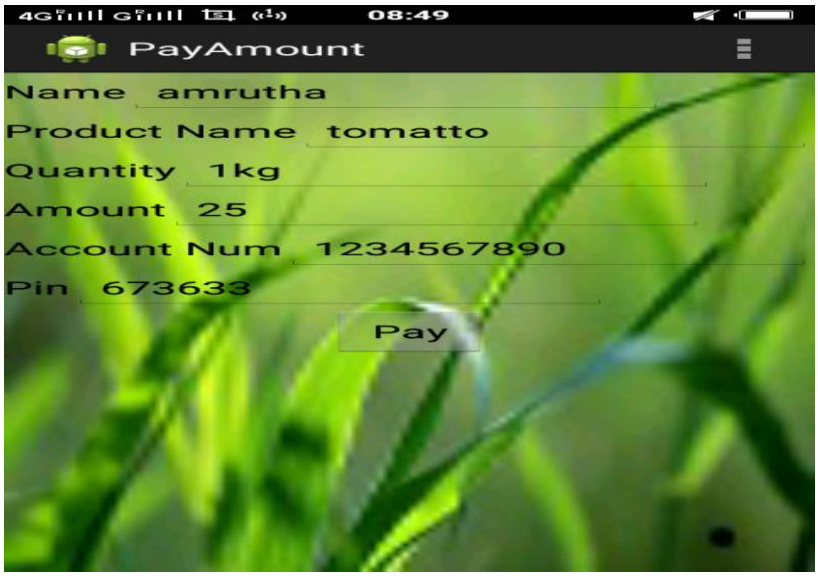
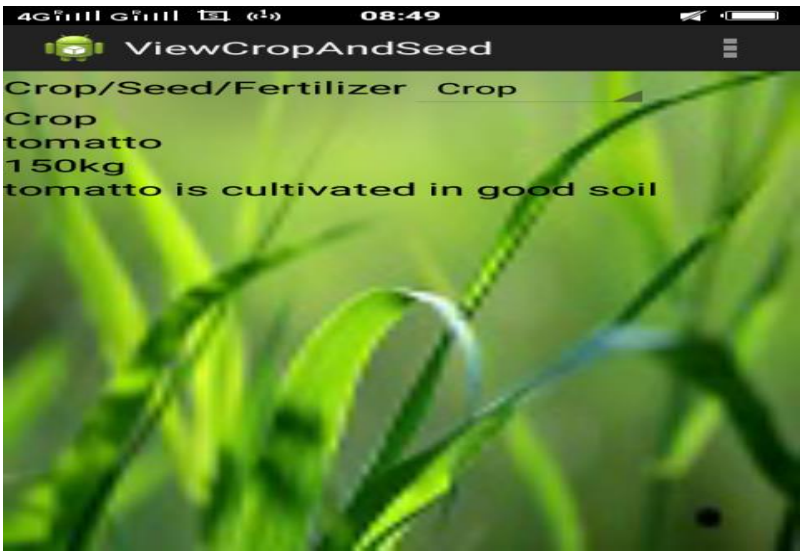
Request product

Pay amount



View crop/seed/fertilizer



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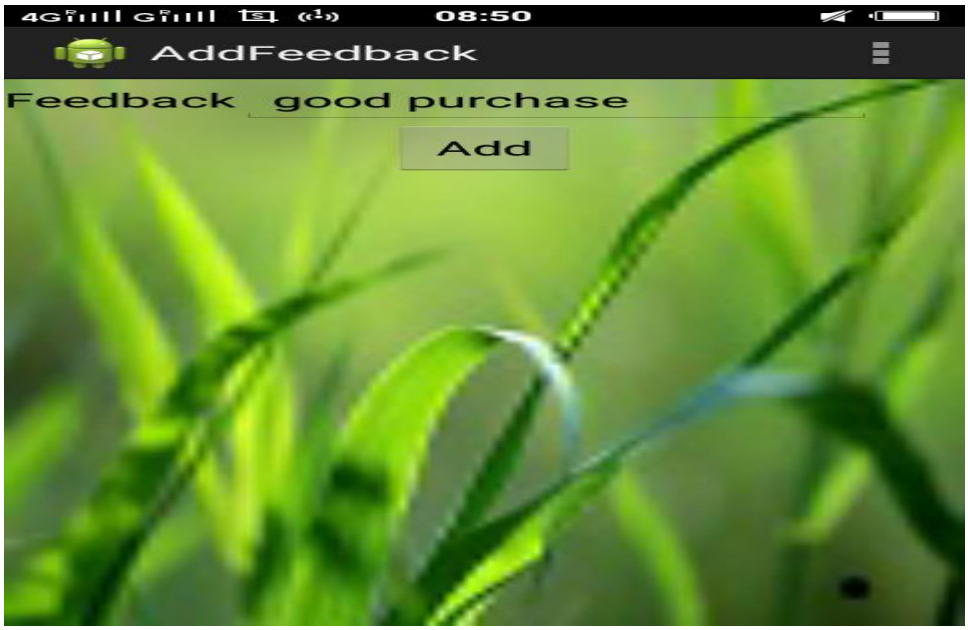
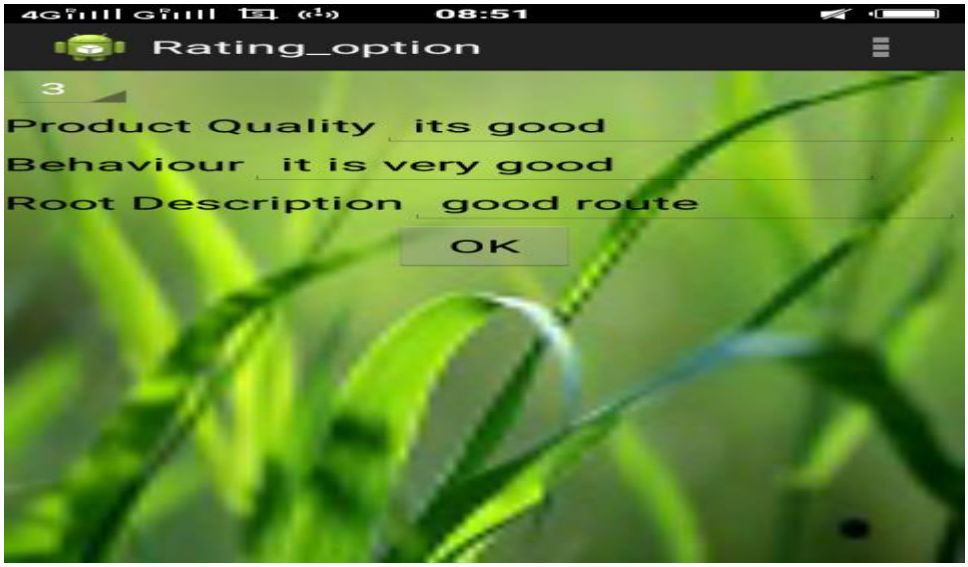
Add feedback

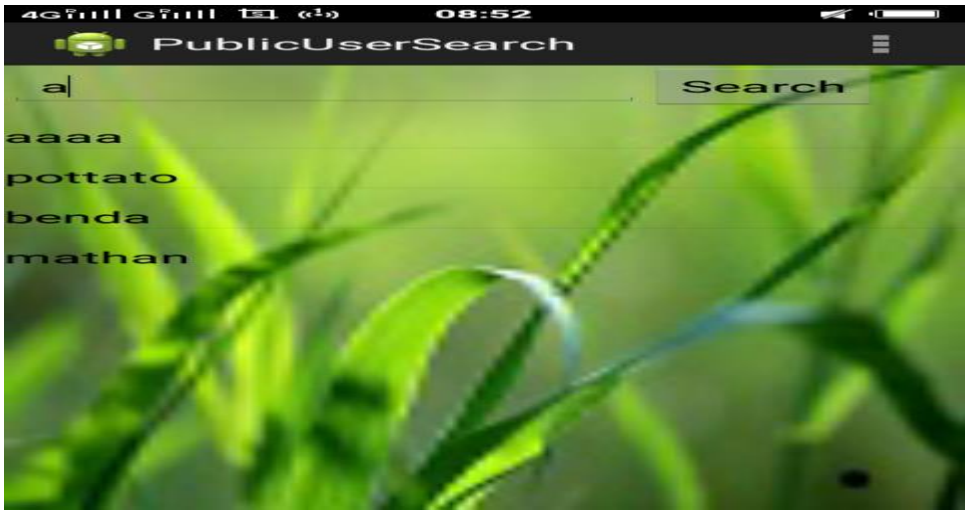


Rating option



Public user module

search product



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