Excelssior Education Society's
K. C. College of Engineering & Management Studies & Research
Department of Computer Engineering

Farming Assistant Web service

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INTRODUCTION

A Web project to help farmers ensure greater profitability through direct farmer to supplier and farmer to farmer communication. This service boosts business communication and brings transparency in the system.

This innovative site allows for good farmer, retailer and supplier communication. It allows farmers to login and communicate to respective dealers. When dealers publish an advertisement or offer, the respective farmers can see on the website. The farmers may also submit their grievances and complaints to respective dealers or authorities using their farmer login on a separate complaints page and authorities will get access to that page regularly using their login id and passwords

Review of literature

Sr. No.	Year of Publication	Author	Paper Name	Study	Conclusion
1.	2020	F. M. Javed Mehedi Shamrat, Md Asaduzzaman, Pronab Ghosh, Md Dipu Sultan, Zarrin Tasnim	A Web Based Application for Agriculture : “Smart Farming System”	Web development, mobile application	It successfully overcomes the delay in communications. Refreshing information turns out to be simpler. Application security, information security, and reliability are striking features
2.	2019	Ms. Shubhangi G. Mane, Dr. Kulkarni R	Review on: Design and Development of Mobile App for Farmers	Web development, mobile application	This mobile app will define the necessary procedure and model to make farmers aware about new diverse knowledge about agriculture and also help them to improve agriculture in our nation.

Review of literature

Sr. No.	Year of Publication	Author	Paper Name	Study	Conclusion
3.	2020	Retsef Levi, Somya Singhvi, Manoj Rajan, Yanchong Zheng	Improving Farmers' Income on Online Agri-platforms: Theory and Field Implementation of a Two-stage Auction	Web development, mobile application	This paper introduces a behavior-centric, field-based, data-driven methodology to design effective auction mechanisms to enhance farmers' revenue in online agri-platforms.
4.	2020	Verónica Saiz-Rubio and Francisco Rovira-Más	From Smart Farming towards Agriculture 5.0: A Review on Crop Data Management	Web development, mobile application	This analysis confirms that consistent knowledge about farms leads to optimal decisions. Agricultural management systems can handle farm data in such a way that results are orchestrated to address customized solutions for each farm

Review of literature

Sr. No.	Year of Publication	Author	Paper Name	Study	Conclusion
5.	2017	Ravi Gorli, Yamini G	Future of Smart Farming with Internet of Things	Web development , mobile application	The paper proposes the use of data mining techniques to provided information to the farmers for crops, soil, fertilizer and pesticides. One more animal farming that's means animal husbandry information also provided. Future work will be focused on the Payment system in that application to designed by the end users.
6.	2020	Purushottam M. Rathi , Kamal K. Patil , Neha G. Shahu , Pooja R. Gupta, Charan D. Chaple, Prof. Vivekanand P. Thakare	Farmer Assistant Android App	Web development , mobile application	This analysis confirms that consistent knowledge about farms leads to optimal decisions. Agricultural management systems can handle farm data in such a way that results are orchestrated to address customized solutions for each farm

Review of literature

Sr. No.	Year of Publication	Author	Paper Name	Study	Conclusion
7.	2020	Tanha Talaviya, Dhara Shah, Nivedita Patel, Hiteshri Yagnik, Manan Shah,	Implementation of artificial intelligence in agriculture for optimisation of irrigation and application of pesticides and herbicides	Web development, mobile application	The agricultural industry faces various challenges such as lack of effective irrigation systems, weeds, issues with plant monitoring due to crop height and extreme weather conditions.

Problem Finding And Motivation

- **Problem with current scenario**
  - Current system is very hard to understand and complex.
  - Current system is not user friendly.
  - Current system farmer and supplier not actively participate in process
  - Farmer cannot raise a complaints and they never get any information or tips.
  - Farmers are not directly connected with supplier.

Drawbacks of the existing system

- Maintenance of the system is very difficult.
- There is a possibility for getting inaccurate results.
- User friendliness is very less.
- It consumes more time for processing the task.

HARDWARE AND SOFTWARE REQUIREMENT

Software Requirements:

- Windows Xp, Windows 7(ultimate, enterprise)
- Sql 2008
- Visual studio 2010

Hardware Components:

- Processor – i3
- Hard Disk – 5 GB
- Memory – 1GB RAM

METHODOLOGY

Separate login areas with appropriated functionality for farmers, administrators and dealers/ retailers.

A separate page where only farmers can post complaints and only assigned administrators can read and edit this page.

Pages where dealers and retailers may post their ads and notifications.

Farmers are notified of these notifications via sms whenever new ads are published.

An effective GUI so that rural people may easily use the service.

Can be over for multiple villages to communicate and deal with each other.

PROPOSED TECHNIQUES

- Considering the anomalies in the existing system computerization of the whole activity is being suggested after initial analysis.
- The project is developed using Visual Studio with Asp .Net with C# as programming language.
- There are three entities who will have the access to the system and those are Admin, Farmer and Supplier.
- Admin first need to login using its login credentials and then only he/she can access the system.
- System allows admin to view the complaints received from the farmer's and also can add new tips based on farming.
- A farmer need to create an account by filling up their basic registration details, and also need to create valid login credentials.
- After successful registration, farmer can login into their account using valid login credentials.
- Once a farmer successfully logs into the system he/she can advertise their crops by uploading crops image.
- Registered farmers can also raise a complaint regarding any issue which will be sent to admin.
- Farmers will also get to know farming tips after which are uploaded by the admin.
- System allows farmers to sell their crops in the market via supplier.
- Supplier can also login using their valid credentials and access modules such as posting advertisement and also receiving and updating the status of crops received.

This web project provides following features:

- Separate login areas with appropriated functionality for farmers, administrators and dealers/ retailers.
- A separate page where only farmers can post complaints and only assigned administrators can read and edit this page.
- Pages where dealers and retailers may post their ads and notifications.
- Farmers are notified of these notifications via SMS whenever new ads are published.
- An effective GUI so that rural people may easily use the service. Can be over for multiple villages to communicate and deal with each other.

RESULTS


Farming Assistant Web Service
Home
About Us
Contact Us
Login
Farmer Login
Admin Login
Supplier Login
Farming Assistant


Farming Assistant Web Service
Complaint Page
View Complaint Status
Farming Tips
Sell Crop
Crop Advertisement Details
Logout
Complaint Page
Complaint ID:- 105
Complaint :-
Submit
Farming Assistant

Farming Assistant Web Service

Complaint Page | View Complaint Status | Farming Tips | Sell Crop | Crop Advertisement Details | Logout

View Complaint Details

ID	complaint	status	farmerid
101	required fertilizers	UnRead	1001
102	good fertilizer required	UnRead	1001
103	new fertilizers	UnRead	1003
104	Increase rate	Read	1001

Farming Assistant


Farming Assistant Web Service
Complaint Page
View Complaint Status
Farming Tips
Sell Crop
Crop Advertisement Details
Logout
Farming Tips
tips
fertlizers
harvest time
Use Good quality fertilizers
Farming Assistant

Farming Assistant Web Service

Complaint Page | View Complaint Status | Farming Tips | Sell Crop | Crop Advertisement Details | Logout

Sell Products

Crop ID:- 64

Name :- Rakesh

Crop Name :- corn

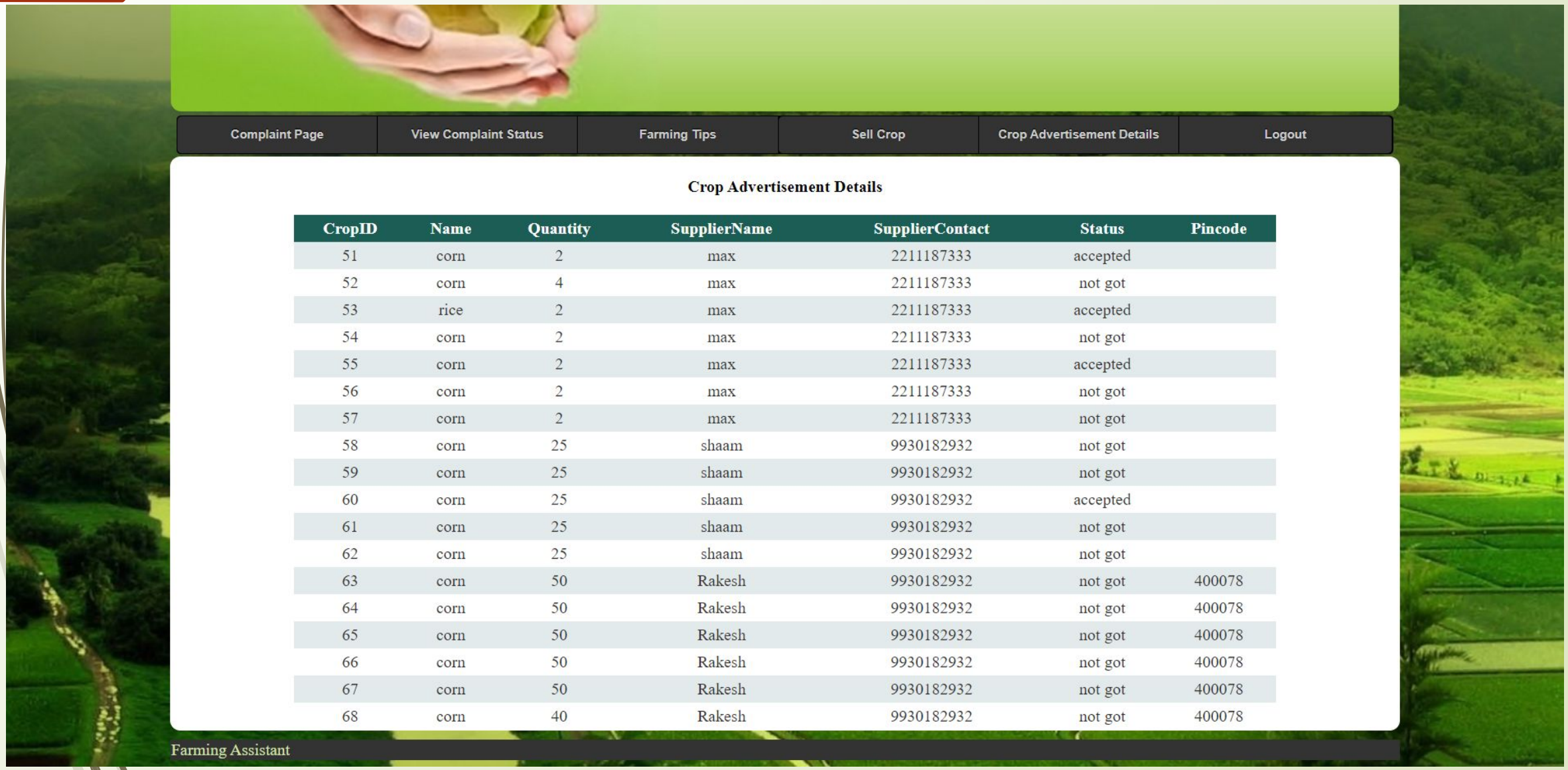
Quantity :- 25

Rupees :- 5000

Pincode :- 400078

Submit

Farming Assistant



Complaint Page | View Complaint Status | Farming Tips | Sell Crop | Crop Advertisement Details | Logout

Crop Advertisement Details

CropID	Name	Quantity	SupplierName	SupplierContact	Status	Pincode
51	corn	2	max	2211187333	accepted	
52	corn	4	max	2211187333	not got	
53	rice	2	max	2211187333	accepted	
54	corn	2	max	2211187333	not got	
55	corn	2	max	2211187333	accepted	
56	corn	2	max	2211187333	not got	
57	corn	2	max	2211187333	not got	
58	corn	25	shaam	9930182932	not got	
59	corn	25	shaam	9930182932	not got	
60	corn	25	shaam	9930182932	accepted	
61	corn	25	shaam	9930182932	not got	
62	corn	25	shaam	9930182932	not got	
63	corn	50	Rakesh	9930182932	not got	400078
64	corn	50	Rakesh	9930182932	not got	400078
65	corn	50	Rakesh	9930182932	not got	400078
66	corn	50	Rakesh	9930182932	not got	400078
67	corn	50	Rakesh	9930182932	not got	400078
68	corn	40	Rakesh	9930182932	not got	400078

Farming Assistant

Farming Assistant Web Service

Post Advertisement | Crop Received | Logout

Post Advertisement

Crop ID :- 69

Crop Name :- corn

Crop Image:- Choose File No file chosen Upload

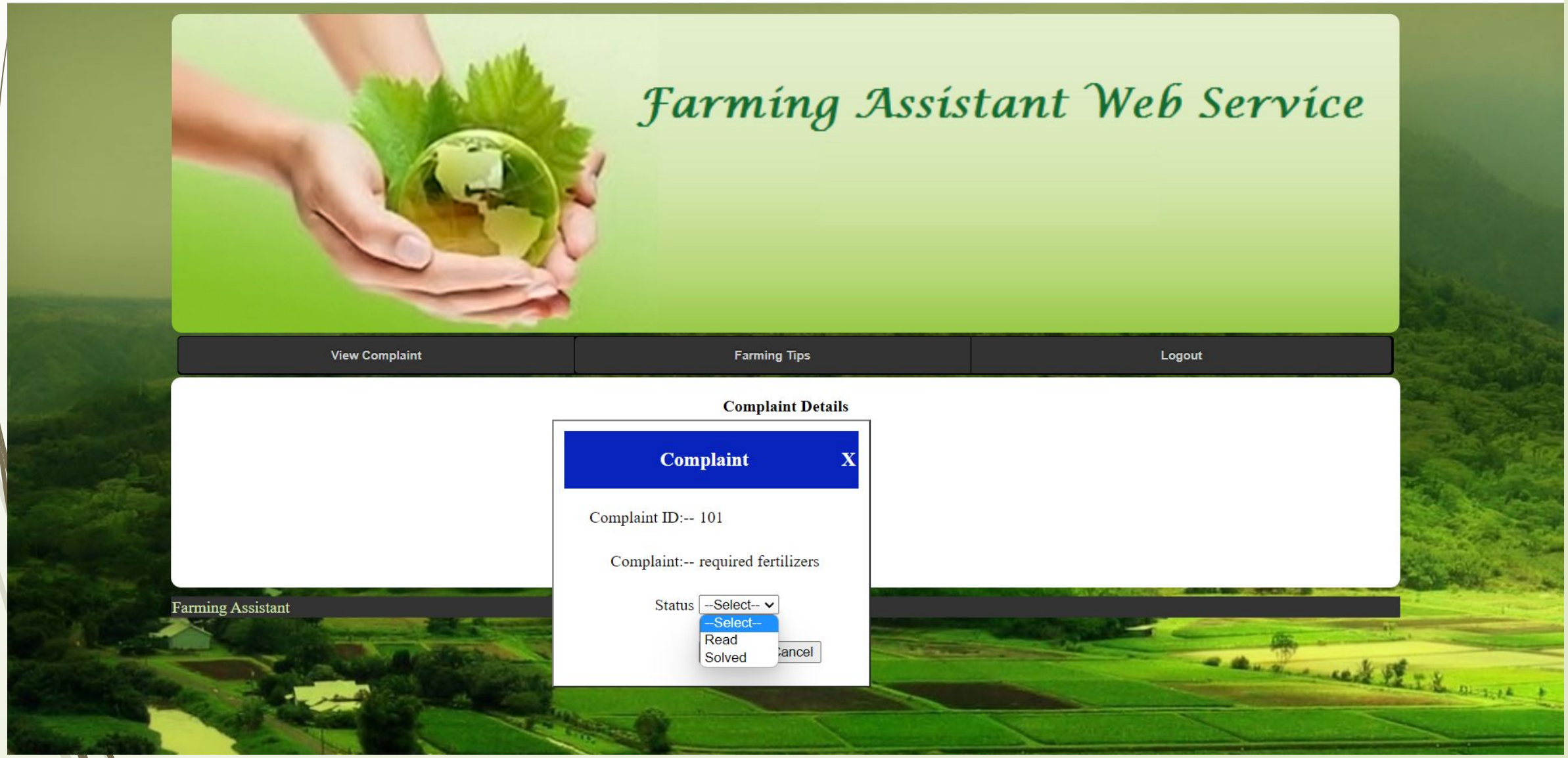
Required Quantity:- 25 **in Kgs**

Pincode 400078

Post

Farming Assistant


Farming Assistant Web Service
Post Advertisement
Crop Received
Logout
Result of the Post
Accept cropid cropname quantity rupees farmerid farmername pincode
Yes 64 corn 50 5000 1003 RAM 400078
Farming Assistant


Farming Assistant Web Service
View Complaint
Farming Tips
Logout
Complaint Details
Complaint
X
Complaint ID:-- 101
Complaint:-- required fertilizers
Status
--Select--
--Select--
Read
Solved
ancel
Farming Assistant


Farming Assistant Web Service
View Complaint
Farming Tips
Logout
Farming Tips
Tips :
Use Good Fertilizers
Submit
Farming Assistant

CONCLUSION

There are many types of agricultural applications that solve different problems and help farmers work smarter and get great results with less effort. Though mobile software is used in many different ways in agriculture, there are some areas where agriculture app development appears to be particularly useful.

Thus we conclude that this website will help the farmers and consumers to interact with each other also will be able to buy sell and post any complaint regarding each other

REFERENCES

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THANK YOU!