

E-FARMING

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ABSTRACT

E-farming will serve as a way for the farmers to sell their products across the state just with some basic knowledge about how to use the website. The site will guide the farmers in all the aspects, the current market rate of different products, the total sale and the earned profit for the sold products, access to the new farming techniques through earning and centralized approach to view different government's agriculture schemes including the compensation schemes for farming.

INTRODUCTION

E-Farming is an electronic form of farming which can help the farmers to sell their goods directly to the wholesalers it will help farmers to make the effective cultivation by providing up-to-date information and make a path to earn more money from villages by selling their products to different cities through online.

E-Farming is the web application that will help the farmers to perform the agro-marketing leading to achieve success and increase in their standard of living. The marketing facility would allow the farmers to have a view of the bills created and the related information in their accounts. An authorized agent would serve as a way for the farmers to sell their products in the market. The centralized market committee will have control on the Agents through business activities review.

Website will also provide market-wise, commodity wise report to the farmer in interactive way.

Related Work

In paper "Krishi-Bharati: An Interface for Indian Farmer" studied that Nowadays, advancement of ICT make possible to retrieve almost any information from the global repository (internet). Farmers require information at the right stage of life cycle of farming to take right decision. Due to illiteracy they cannot get information. This paper

agricultural information in Indian language text and spoken forms both. After selecting the icons, the icon to natural language generation module convert the selected icons to text in Indian language.

In paper "Icon Based Information Retrieval and Disease Identification in Agriculture" Most of farmer are illiterate that's why they are not able to use internet for possible remedies of their infected crops. This paper discusses mainly two features one with an iconic interface where farmer can interact easily and in return system will return in native language. Another feature is an image processing technique in that farmer has to upload image of diseased crops and result will show disease name and possible solution for infected crop.

In paper "Enhancement in Agro Expert System for Rice Crop" Some farmers don't have enough knowledge to identify exact diseases on crop by analyzing symptom on crop. The main point of study in system is that system background starts with by analyzing the number of disease symptoms of the rice plant appearing during the life cycle of plant and then the collected knowledge viewed to develop an expert system.

In paper "A Model for Enhancing Empowerment in Farmers is using Mobile Based information system" states that farmers which are living in villages rural areas do not have proper access of information to make decisions related to farming, they use mobile phones to communicate using internet. It provides personalized information with the aim of empowering them to make appropriate decision and actions

Problem Definition

There is no computerized system for the farmer to sell their products. currently ,the farmer goes to the nearest market to hand over his product to a particular agent ,agent ask the farmer to visit the market after a specific time to collect the cash earned out of the sold product agent sells the product to another agent or a dealer at the cost of that market.

There is no transparency. No facility is present for the farmer to know the product rates at different

achieving high profits .current system does not provide the way of e-learning for farmer that will provide the knowledge of new technology in farming so they doesn't get the maximum profit ,through the current system.

Disadvantages:

- It will take more time to the farmer .Even farmers can't get actual profits .Agents acts as middle persons.

Proposed System

E-Farming will provide unique ID to each user that can be used to perform agro-marketing. Farmers who want to perform marketing and apply for schemes must have the login username and password. Along with the farmer, the agent which will perform the selling of farmer's product must be authorized, they will be given authorized agent ID and password.

During authorization farmer need to provide ID, password, name, phone number his personal details etc.. Once availed with the username and a password for the website user can perform different operations like marketing etc.

Advantages:

- The benefits of IT for the improvement and strengthening of agriculture sector in India include timely information on weather forecasts and calamities.
- Better marketing exposure and pricing.
- Reduction of agriculture risks and enhanced incomes.
- Farmers can directly sell their products to wholesaler so, they can get more profits.

IMPLEMENTATION

There are 3 modules

- Admin
- Farmer
- WholeSaler

Admin:

Admin should be able to see all records. The records shown for selling should be in a format of quantity, name, price etc..

Farmer:

Farmers can register in the site with some basic knowledge about how to operate computer system.

Wholesaler:

According to his requirement he can buy the products. After purchasing the product if any problem is there he can send comments to farmer.

Software Requirements:

Netbeans 7.1.2 :IDE

Apache tomcat 6.0:server

Oracle 11g:DB

Front end:Html,css3,java script,jsp

Back end:java,servlet,jsp

Hardware Requirements:

| | |
|--------------|---------------------|
| RAM | : 512 MB |
| Hard disk | : 40 GB |
| System | : Any processor |
| Floppy drive | :1.44 mb |
| Monitor | : 15 VGA color |
| Mouse | : Any standard mous |

FUTURE SCOPE

E-Farming can be implemented by using satellites. With help of satellite communication user can observe the climatic conditions of the farm even by sitting at home.

CONCLUSION

Finally this system gives more benefits to the farmers. Without going to the market they can sell their products by sitting at home also. It acts as an interface to the farmer to do their work easily.

This project will be helpful for farmers to know more about market information, will act as unique interface of schemes and compensation through this they will be always in touch of new technique and trends of framing. But some extends, new user may feel some kind of stress about its use. Overall this system faster, secure and comfortable.

REFERENCES

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