STOCK VENDORING USING AWS FOR E -FARMING

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ABSTRACT: In India, farming is the most common occupation. Despite this, many who work in agriculture today are from the lowest class and live in extreme poverty. The modern processes and automated machinery that are propelling the globe forward are lagging in the farming sector. Farming poverty is caused by either a lack of awareness of improved facilities or their unavailability. Even after all of the farmers' hard work and productivity, the farmers are defrauded by local agents in today's market, resulting in poverty. The proposed application 'Kisan E-Marketing' would automate everything and provide the greatest solution to all of the challenges that farmers face. At Kisan E-Market, farmers will be able to sell their produce. Farmers would be able to sell their products across the country via Kisan E-Market if they have a basic understanding of how to utilise the website. The site will assist farmers in all aspects, including current market rates for various products, total sales and earned profit for sold products, access to new farming techniques through kisan-marketing, and a centralised approach to viewing various government agriculture schemes, including farming compensation schemes. The SMS function supplied by the system can be used to obtain essential information about markets and other products.

1. INTRODUCTION

Kisan e-marketing is a web program that will assist farmers in conducting Kisan e-Markets, resulting in more success and a higher level of living. Farmers would be able to see the bills that were created as well as the related information in their accounts using the Marketing capability. Farmers would be able to sell their product in the market through an Authorized-agent. Through an assessment of company operations, the centralised market committee will have authority over the Agents. The website will also give farmers with interactive market and commodity reports..Where internet is unavailable in remote areas, the SMS function will provide the necessary market information. New plans for farmers will be proposed by the government. Farmers will be compensated if their production is lost due to natural disasters. For applying and viewing the schemes, a unique interface will be given. Farmers and agents will be given a unique ID to use when accessing into their accounts, ensuring secure access.

2. OBJECTIVES

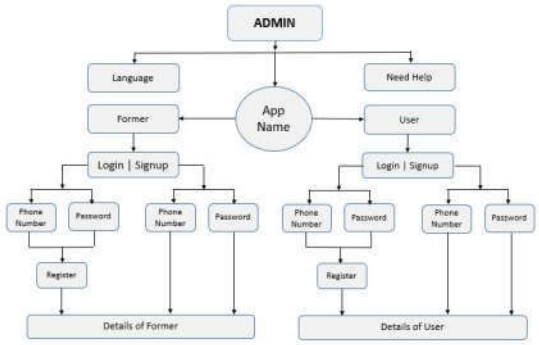
The major goal of this project is to create a website that would assist farmers in Indian villages in selling their products in various city markets. It's a computerised strategy for more effective and transparent marketing. Farmers will have access to a one-of-a-kind interface via which they will be able to learn about the market, conduct marketing, obtain current market rates, communicate by SMS via cell phones, gather information about various schemes, and apply as well as check the progress of their applications. This website will serve as a one-of-a-kind and safe platform for Kisan e-marketing

3. EXISTING SYSTEM

The farmer's produce cannot be sold using a computerised system. Currently, the farmer travels to the nearest market and hands over his goods to a specified agent, who instructs the farmer to return to the market at a certain time to receive the money gained from the sold product. At the cost of the market, the agent sells the commodity to another agency or a dealer. Every agent tries to shave some money off his commission. Farmers have no way of knowing about the arrangement or the actual price at which their product was sold. Transparency does not exist. Farmers do not have access to information on product pricing at various markets where they can sell their products for a profit.Farmersare frequently unaware of government-sponsored initiatives and compensation. Despite all of the opportunities knocking on their doors, farmers are unable to take use of them. The current system does not provide a method for farmers to acquire new farming techniques through kisan e-marketing. As a result, the current system does not provide him with the greatest benefit.

4. KISAN E-MARKET

This web application for farmers where they can submit all of their detailed information about the crop and the farmer. All crop-related information, such as crop price, photos, year of completion, and product quality and quantity, can be submitted directly by the farmer. Here we present market data in the form of a graphical representation of the crop today price and yesterday's price. and the user can fill out the information, following which he can search for the goods he wants. This technology is mostly utilised by farmers and users to exchange information about available and required crops over the internet.It's a simple way for people to share information about the crops they needUsing machine learning, create a web site for farmers, reducing the manual effect and time spent, and generating profit for farmers



4.1 Algorithm

Farmer and Agent:

Step 1: Create a new account for the farmer with specific information so that you can communicate with him.

Step 2: After you've completed the form, click the Submit button. The information will be automatically updated in the Kisan e-Marketing database.

Step 3: Login the Web Application by Using Their Unique Id.

Step 4:In kisan E-Marketing, the farmer can update the product, and the agent can perform marketing actions.

Step 5: The result of the update, as well as an acknowledgement of the update, will be sent to the farmer through SMS or email, and it will be updated in the database at the same time.

RETAILER

Step 1: Creating A New Account for theretailer With Unique Details to Communicate.

Step 2: After the Details Are Filled, Click on Submit Button. The Details Will Be Automatically Updated in Database Of kisan Marketing.

Step 3:Retailer Can Search and order The Product.

4.2 Applications:

For marketing purposes, it provides a user-friendly website.
• Has a real-time application in which is where actual marketing occurs.
• One-touch access to up-to-date and accurate market data

• Reduces the likelihood of market corruption, inconvenient watching, and unease.

• Access to information on a mobile device by simply submitting a keyword via SMS.

• Easy and hassle-free access, as well as the ability to apply for government initiatives and compensation.

• kisan e-marketing for agriculture education.

4.3 Risks in implementation

• In rural areas, there is a lack of equal access to the internet.
• The trust worthiness of information on the internet.
• New users' technophobia

5. METHODOLOGY

A web developer is someone who can create software applications using a programming language, which is a collection of many tools and technology

5.1 Account Creation:

It entails the construction of an account in which the user's basic information, as well as the type of user (farmer, agent, or retailer), is submitted. This module provides the user with a unique ID that serves as their identity.

5.2 Login:

It Contains the Unique Id and Password For The Farmer, Agent To Login Their Account.

5.3 Product Update: Farmer Can Update the Product According to Their Cultivated Categories Like Vegetables, Fruits, Pulse and Grains. They Can Fix the Cost for Their Product Per Kg.

5.4 Retailer Request: Retailer Will Request the Required Product with The Nearest

Location. Then It Will Be Undertaken by The Agent.

5.5 Marketing Action: Agent Will Monitor the Database of Product Updates by The Farmer. and also, They Monitor the Retailer Request. then the product location will be directed to the Requested Retailer. Then the Product Will Be Brought by The Retailer.

5.6 sms: Serves as An Alternate to Get the Market information To the Farmers Through Mobile. User can Get Message Related to Specific Commodity by Sending The keyword To the Service Number.

5.7 E-marketing: Includes Documentation, Videos and Audios Working as A Helpdesk. It Will educate Farmers About New Trends And techniques For Farming As Well As Notice For different Workshops That Will Be Conducted. User can View and Download the Content For Future Use.

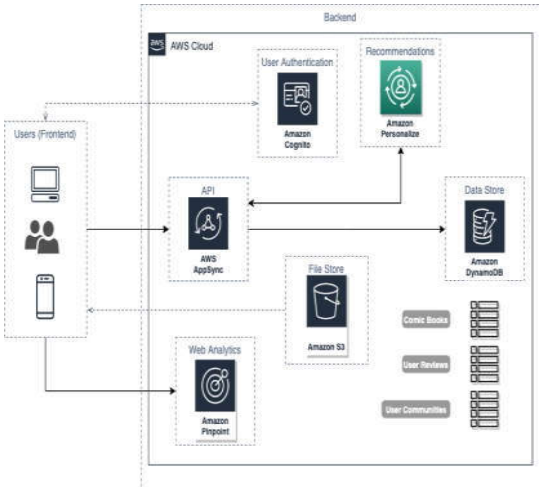


Fig.2 AWS FLOWCHART

6. IMPLEMENTATION

The system will be having only one user-name and Password section on the front page, as per the user-name and password the system will know whether user is Farmer/Agent/Administrator/Gov. Officer.

In this web application Amazon Web Services (AWS) is Amazon's ever-evolving cloud computing platform. Infrastructure as a service (IaaS), platform as a service (PaaS), and packaged software as a service (SaaS) are among the services it offers

It's a secure cloud services platform that helps businesses develop and grow by providing compute power, database storage, content delivery, and other features.

6.1 Scenario of Project 1: Farmer

- Farmers can create new account, log-in to their existing accounts which will give them the authority to use the services provided by the system
- Authenticated farmers can sell their product,
- If user select as farmer then there is option to select whether he wants to take crop or it shows interest about the crop.

Scenario 2: Authorized Agent

- There is no agent or middle agent to sell the product only a farmer and user are in the interface to sell and buy the product
- Agent transfers the fund to farmer's account as per the product sale.

Scenario 3: Government Officer
Central authorities can access their accounts, which were set up by the administrator.

• Authorities have access to all market information in all tehsils and districts.
• They can see the market's turnover on a daily, weekly, or monthly basis.

• Verify the eligibility of farmers for compensation and subsidies.

• Provide a valid reason why the scheme application was denied.

• Initiate appropriate action in response to legitimate complaints regarding agents.

Scenario 4: Administrator

- Create and monitor accounts of users
- Maintain the website.
- Provide the username and authorities as per user.
- Update the website.

Developing an website language detection algorithm is used to select particular language :The algorithm requires training data in each of the languages to be categorised.

On single words, it performs poorly. 200-300 characters is the ideal input size.

Each block of text has only one language associated to it. The basic technique is incapable of detecting language changes.
Problems distinguishing between closely related languages (such as Danish and Norwegian).
A web developer can use AWS cloud tools to create applications

6.2 Software implementation

Proposed application is web application build using machine learning Software implementation is as shown in below diagram.

Software Interface:

1. Client on Internet: Web Browser, Operating System (any)
2. Client on Intranet: Web Browser, Operating System (any)
3. Web Server: Operating System (any)
4. Data Base Server: DB2, Operating System (any)

Communication Interface:

1 Client (customer) on Internet will be using HTTP/HTTPS protocol.
2. Client (system user) on Internet will be using HTTP/HTTPS protocol

6.3 Hardware implementation:

A weighting machine will be connected to the agent machine, which will automatically post the product's weight into the farmer's invoice. The weighing instrument is connected to a microcontroller, which will monitor the machine's actions and provide pertinent data to the agent's PC.

RESULT

Fig.3 introduction

Selection process

Fig.4 selection process

7 CONCLUSION

This initiative will assist farmers in learning more about market information and will serve as a one-of-a-kind interface for schemes and payments. They will always be up to date on new farming techniques and trends as a result of this. However, beginning users may experience some anxiety when using it. This technology is speedier, more secure, and more pleasant in general.

REFERENCES

[1]: Sindhu M R, Aditya Pabshettiwar, Ketan.K.Ghumatkar, Pravin.H.Budhehalkar, Paresh.V.Jaju G. H. Raisoni College of Engineering and Management, Pune, India "E-FARMING"Sindhu M R et al, / (IJCSIT) International Journal of Computer Science and Information Technologies, Vol. 3 (2) , 2012,3479-3482

[2]: Gokul. K1 Dr. P.V. Praveen Sundar2 1MCA Student 2Director, M.Phil, Ph.D 1,2Shanmuga Industries Arts & Science College, Tiruvannamalai - 606603, India "Virtual Agricultural E-Auction Web Portal"IJSRD - International Journal for Scientific Research & Development| Vol. 6, Issue 02, 2018 | ISSN (online): 2321-0613.

[3]:Rajiv Mehta Additional Director General, Survey Design and Research Division, National Sample Survey Organisation, Ministry of Statistics and Programme Implementation Govt. of India "Mahalanobis Bhawan" 164, G. L. T. Road, Kolkata, India Email: rajivmehta2@gmail.com"India's Agricultural Marketing Information System Network (AGMARKNET)"Expert Consultation on Statistics in Support of Policies to Empower Small Farmers Bangkok, Thailand, 8 -11 September 2009

[4]:Dr.P.M.Arunkumar (1), Lavanya.S(2), Deepika. S(3) , Dhanvarsha N.S(4) Associate Professor(IT), Dept. of Information Technology,Velalar College of Engineering and Technology, Tamil Nadu, India (1) , Final Year (B. Tech), Dept. of Information Technology, Velalar College of Engineering and Technology, Tamil Nadu, India (2,3,4,5) ,."Agro-Marketing"International Journal of Innovative Research in Science, Engineering and Technology (A High Impact Factor, Monthly, Peer Reviewed Journal) Visit: www.ijirset.com Vol. 8, Issue 3, March 2019.

[5]:"Agricultural Marketing Information And Research Network.(AgmarketNic.In)" launched in March 2000 by the Union Ministry of Agriculture. The Directorate of Marketing and Inspection (DMI), under the Ministry, links around 7,000 agricultural wholesale markets in India with the State Agricultural Marketing Boards and Directorates for effective information exchange.

[6]:N.L. Agarwal (2004), Agricultural Marketing in India,4th edn, Oxford and IBH, New Delhi

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[8] :EFARMER2013.eFarmer[Online]. Available:http://efarmer.mobi/

[9] A. B. DeramanUniversitiKebangsaan Malaysia A. K. Shamsul BaharBionergySdn. Bhd."Bringing the Farming Community Into the Internet Age: A Case Study"Informing Science Case Study Volume 3 No 4, 2000

[10] :Deshpande Radhika (BE computer) S.R.E.S.COE,Kopargaon Savitribai Phule Pune University BhalekarDipali (BE computer) S.R.E.S.COE,Kopargaon Savitribai Phule Pune University Mutkule Prasad (BE computer) S.R.E.S.COE,Kopargaon Savitribai Phule Pune University Sanjay Pandhare, PhD (CEO and Managing Partner) Competence Center for Agriculture and Industry, Pune NawaleAkshay (BE computer) S.R.E.S.COE,Kopargaon Savitribai Phule Pune University"One Stop Solution for Farmer Consumer Interaction"International Journal of Computer Applications (0975 – 8887) National Conference on Advances in Computing (NCAC 2015).

[11] :Agnoc, (2000), "Agricultural Network Information Center web site". http://ww.agnoc.com/ (7 MayTa 2000).

[12Aziz Deraman, Shamsul Bahar Abdul Kadir and Ashraf Rachan Din UniversitiKeballgsaall Malaysia: BiollergySdnBerlwd: Ministry of Education Malaysia "TANINET: A PORTAL FOR FARMING COMMUNITY DEVELOPMENT IN E-BUSINESS" .

[13] :Di, (2000), "Di's Agricultural Links web page". http://www.ozemail.com.au/~dkgsoft/agr.html (24 April 2000).

[14] : FAO, (2000), "Food and Agriculture Organization of the United Nations web site". http://www.fao.org/ (24 April 2000).

[15] :Iastate, (2000), "Iowa State university College of Agriculture web site". http://www.ag.iastate.edu/ (24 April 2000).

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