

E-FARMING APP FOR INCREASING PRODUCTIVITY OF FARMERS

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ABSTRACT

The Prime Occupation in India is farming despite this, today the people involved in agriculture are poor and very poor. Advanced techniques and Automated equipment that lead the world to higher ground, have been lagging behind when it comes to Farming, whether it is ignorance of high-level facilities or unavailability leading to Farming poverty. Even after all the hard work and productivity of farmers, in today's market farmers are deceived by Agents, leading to poverty. Agro marketing can make everything automated which makes it easy to serve as the best solution to all problems.

E-farming will serve as a way for farmers to market their products nationwide with some basic knowledge of how to use the app. The app will guide farmers in all aspects, the current market rate of different products, the full sale and profitability of the products sold, access to new farming methods through e-learning and one view of various government agricultural programs including farming compensation schemes. Access to the required information pertaining to different markets and products can be made available through the SMS location provided by the system.

1. INTRODUCTION

E Farming is a web program that will help farmers to create agricultural markets that lead to success and improve their quality of life. The Marketing Center will allow farmers to have an idea of the loans made and the related information in their accounts. Authorized- agent will act as a way for farmers to sell their products in the market. The Centralized Marketing Committee will be empowered to Agents through a review of business activities.

The app will also provide a comprehensive market report, of the purchase of goods to the farmer in a collaborative manner. In a rural area, an SMS location will provide the necessary market information where the internet cannot be accessed.

Government can rate new farmers' schemes. Compensation are going to be provided to farmers within the event of loss of productivity because of bound natural disasters. A unique interface to use and look at schemes are going to be provided. Farmers and Agents will be given a unique ID to log in to their accounts leading to secure access.

2. OBJECTIVES

The main purpose of this project is to form a Associate in Nursing app that will facilitate farmers from the Indian landmass to sell their turn out in numerous markets within the town. It is a computerized technique of higher and clearer advertising

Farmers can get a novel interface wherever they will get everything from learning to plug info they will do marketing, get current market costs, contact SMS via mobile, will collect info for numerous programs and use it as a check form. This web site can add a novel and safe thanks to do agricultural selling.

3. EXISTING SYSTEM There is no worm for a farmer to sell their product. Currently, the farmer goes to a close-by market and delivers his product to a selected agent, the agent asks the farmer to go to the market when an explicit amount of your time to collect the issue from the merchandise sold-out. Associate in Nursing agent sells a product to a different agent or vendor at the expense of that market. each professional is attempting to chop his commission on that. there's no method for a farmer to understand concerning this agreement and therefore the actual worth at that its product is sold-out.

No visibility. there's no facility out there for farmers to know the costs of merchandise in numerous markets wherever they can sell their merchandise for optimum profit. Too often, farmers area unit unaware of even the government's plans and compensation. Despite all the opportunities to play doors farmers don't seem to be able to benefit from that. this system doesn't offer Associate in Nursing e-farmer coaching which will offer info on new agricultural techniques. therefore he's not obtaining a lot of profit from this system.

4. E-FARMING

E-farming can offer a separate ID for every user that can be wont to do agricultural selling and might apply for the program. 4.1 Construction and Buildings we tend to describe the algorithmic rule, that is employed to outline how a system can work, i.e. the method behind it, the flowchart, that represents the illustration of the concept idea of the method and eventually the Digra Flow

4.1.1 Algorithmic rule –

There's no go to check in to the common user WHO is curious about the assorted market info and programs. Farmers WHO wish to plug and apply for schemes should have a username and login secret. Along with farmers, the agent WHO are going to be marketing the farmer's product should be approved by the selling committee for their selling license and when approval, they'll be supplied with a certified ID and secret of the agent. At the time of approval, the Farmer is needed to produce his or her checking account variety, product names, crop . details, etc

Once a username and net secret are obtained users will perform numerous functions like marketing, read account details, and appearance when the transfer of funds when the sale. 4.1.2 Flow Chart The diagram (fig. 2) shown below provides a basic description of the movement of the system. it'll offer an outline of the activity and wherever it goes when the performance. It shows numerous things like ("if not") if one condition is not true wherever the flow can come back and wherever it'll begin and wherever the flow can stop when an explicit operation.

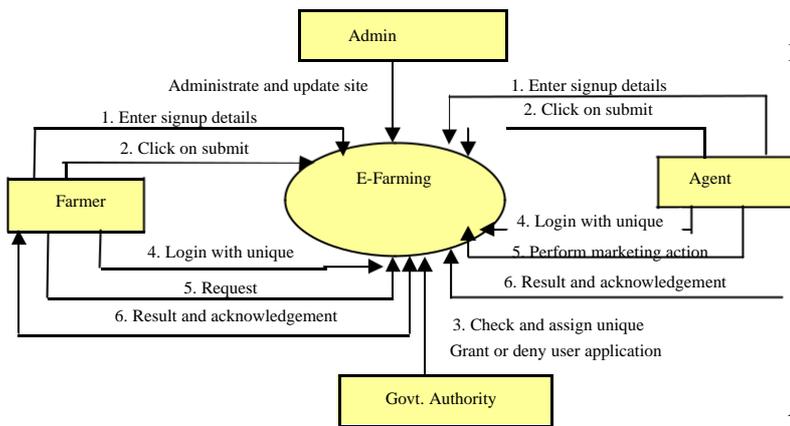


Figure1: Data Flow Diagram

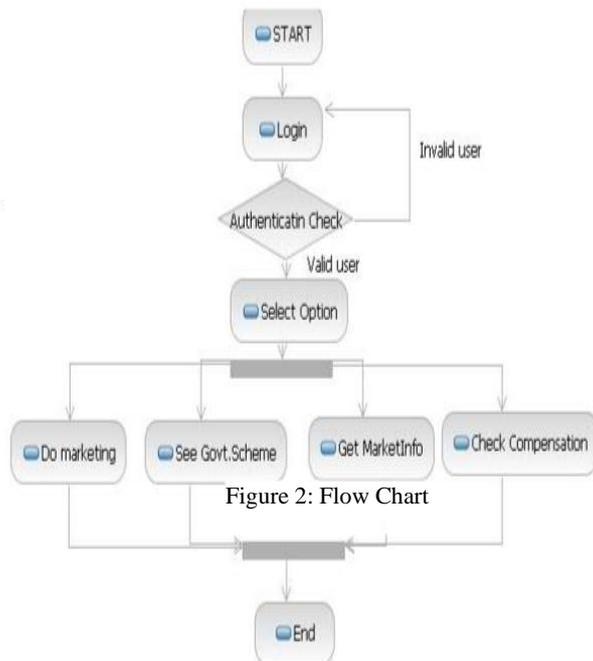


Figure 2: Flow Chart

4.2 Applications -

Provides a friendly website for selling functions.

Contains period of time application for 'krushi utpann bajar samitte' wherever real selling takes place. One bit is that the decline in correct market info.

It reduces the possibilities of corruption, disruption and discomfort within the market. Information on mobile by causing nominative keyword via SMS.

Free and problem free access and applies to government programs and compensation.

Agricultural education through E-learning.

4.3 Risks in implementation

Responsibility of data on the internet.

Dislike for brand new users..

5. WAYS

Below are the basic modules involved in the Project info .

Account Creation: Includes account creation, where basic user info, user type, whether or not you're a farmer, agent or Gov. Officer. With this module, the user gets a novel ID that acts because the user ID. ➤

Marketing: Includes worth, charge and transfer of funds. costs can show the farmer that his merchandise have been sold-out at a good worth. Charging can create debt when receiving letter of invitation from the farmer for a money loan. The created bill are going to be displayed on the page. The Bill can have the unit price, total quantity of cash, agent commission, car fare, alternative expenses incurred, etc. The farmer can transfer or print the bill for future reference. employing a cash transfer, the Agent will transfer the invoice quantity to the farmers' account and therefore the farmer will check whether or not the amount has been transferred or not. One must sign in victimisation this facility

- **Market Details:** The farmer will see the market details of the closest market. this may have sales prices for a special product, today's profit, product-related details like amount, grading, sales prices, etc. it'll offer good assets, daily trading reports, good goods costs within the last week, public transactions below MSP (high retail price).

- SMS: It is differently to induce market information to farmers on mobile phones. The user will receive a message associated with a selected asset by causation a keyword to the service number.
- Compensation: List the packages provided by the government to farmers UN agency ar victims of various natural disasters like serious rains, droughts etc. they'll apply for an equivalent application and might assess the standing of their application. The farmer will solely apply when signing in.
- Government Schemes: Includes all government schemes associated with a specific product and space and may apply within the same manner as compensation. ➤
- E-Learning: Includes texts, videos and audios that function a helpline. it'll educate farmers about new farming techniques and techniques and inform numerous workshops to be command. The user can read and transfer the content

6. IMPLEMENTATION

The system can have only 1 username and password on the front page, consistent with username and parole the system can understand if the user could be a Farmer / Agent / Manager / Government officer.

6.1 standing of the Project

Scenario 1:

Farmers will produce a brand new account, log in to their existing accounts which can authorize them to use the services provided by the system. Authorized farmers will sell their manufacture, claim compensation from the govt and appearance at his fund. If the user chooses to become a farmer then there is associate degree choice to select whether or not he desires to check or once he's familiar with shopping for and marketing online he will go on to sell his product. The farmer will check his account for the transfer of funds.

Status 2:

Licensed Agent- The agent sells the merchandise to a different agent or wholesaler. The agent transfers the bag to the farmer's account as a product sale.

Scenario 3:

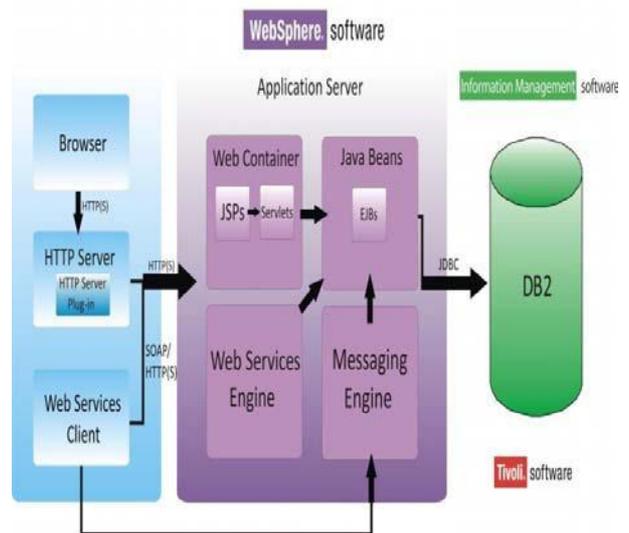
Government official- Central authorities will check in to their accounts as created by the administrator. Authorities will access all market data of all told different states, region.

Scenario 4 :

Manager - Create and manage user accounts.
Save the website.
Provide username and authorities as per user.
Update web site.

6.2 Software System Implementation

The planned application could be a internet application build exploitation jsp, servlet and db2 information. Software system implementation as shown within the diagram below



Software System Interface :

Android Studio - designing app
Front end language – xml
Back end language- java
Firebase- for database connectivity
Visual Studio- for software construction

Hardware Implementation

- The weight machine are hooked up to the agent machine which can mechanically load the product weight on the farmer's invoice. The measurement tool is hooked up to a microcontroller that will monitor machine operations and supply relevant data to the agent's pc.

CONCLUSION

This project will help farmers to know more about market details; In this they will always keep in touch with new ideas and new Techniques in agriculture. They can learn more and more about farming on a daily basis. They can use this app in a very safe and comfortable way.

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