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Title: FARMER HELPDESK APMC – APP

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INTRODUCTION

Farmers encounter a multitude of sources providing agricultural information, such as printed media, audio visual aids, newspapers, television, the internet, and mobile platforms. However, the data formats and structures across these sources often differ significantly. Consequently, it becomes exceedingly challenging for farmers to access and comprehend the diverse information disseminated from these various channels. Unfortunately, the majority of Indian farmers face challenges in making informed decisions regarding the sale of their produce. They lack access to crucial information and technological resources that could potentially enhance their yields and enable them to secure better prices for their crops. Farmers are facing difficulty to transact through the Agricultural produce market committee (APMC) because of uncertainties of APMC like Manual process, Middle man interference, unable to access the variety of prices in local and distinct markets, and so on. So, it's important to develop an Android application to provide information for farmers and computerize the process of the APMC market by keeping transparency between Farmers, Traders, and APMC.
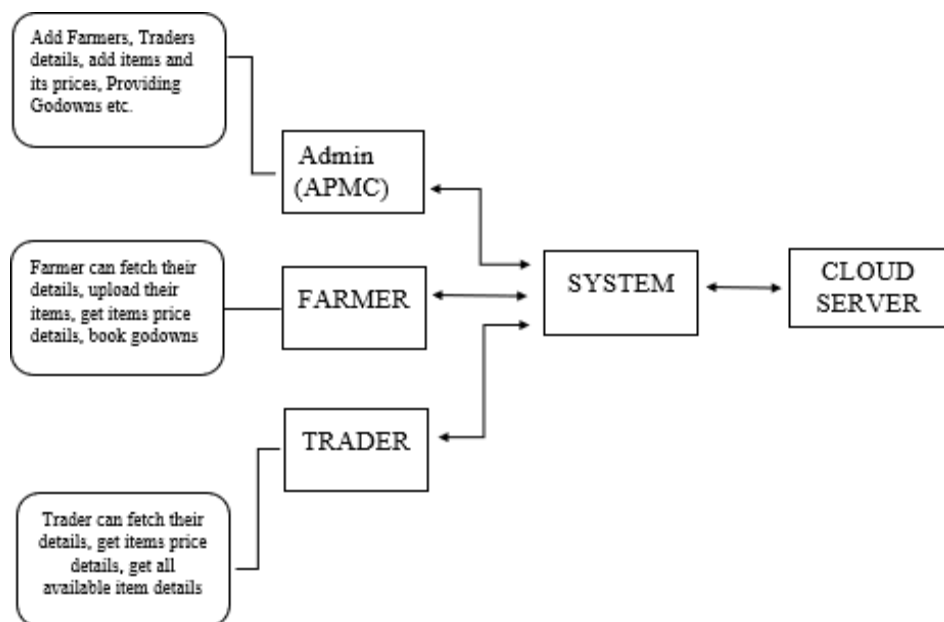
Keywords—Android; APMC;

OBJECTIVES

1) To Computerize the process of APMC

2) Keeping Transparency between the farmers, traders, and APMC

3) Providing a platform for farmers to know the market rates and to sell their yields to traders through APMC.

METHODOLOGY

Admin(APMC): The admin login into the application through his username and password. The admin interface will have activities like Registering new Farmers, and new Traders to the list, adding items and prices to the list, providing godown facilities to the farmers, and can view transaction details between farmers and traders.

Farmer: The farmers login into the application through their contact number which is provided at the time of pre-registration. The farmers will have interfaces as Farmer details such as name, acres, address, contact number, taluk, and city.

Fetch item price details such as carrot, beans, onion, jowar, Toor Dal, etc. prices are listed daily according to the agricultural produce market committee(APMC) i.e. added by the Admin(APMC). Farmers can Upload their item details and can sell their products to traders through admin. And admin(APMC)can view his details and transaction details.

Farmers can book the APMC godown according to their requirements to keep their yield as a stock and the transaction of this process will be done between the farmers and the Admin(APMC).

Trader: The Traders login into the application through their contact number which is provided at the time of pre-registration. The Trader will have interfaces like Trader details such as name trader id, ward, address, phone number, and city.

Fetch item price details such as carrot, beans, onion, jowar, ToorDal, etc. prices are listed daily according to the agricultural produce market committee(APMC) i.e. added by the Admin(APMC). A trader can fetch all available item details of the crops/products which are uploaded by the farmers and purchase them with his trader id the transaction will do between farmer and trader under the admin(APMC) and the admin can view the transaction details by keeping the transparency between the farmers, traders, and the APMC. All the processes will be done within the system which is connected to a cloud server to fetch any details of APMC, farmers, and traders and administrated by admin(APMC).

System: The system facilitates seamless communication between the administrator (APMC), farmers, traders, and the cloud server. Whenever a user initiates a transaction on any of the three interfaces, it undergoes processing and is securely stored in the cloud server. This ensures that users can access their transaction details at any given time, providing them with the convenience of retrieving information whenever needed.

Cloud Server: A cloud server serves as a consolidated and centrally located server resource, accessible to multiple users over a network, commonly the Internet. It operates on an on-demand basis, providing users with the ability to perform various functions similar to those offered by a conventional physical server. These functions include processing power, storage capabilities, and the execution of applications.

RESULTS AND CONCLUSIONS

The project Farmer Help Desk- APMC App is developing to overcome certain uncertainties which are happening in the agriculture department about farmers and their needs. Here we trying to provide a solution to farmers problems about to add their items to the portal and view all processed details. We hope we developed this application to the requirement specified and meet the real-world requirement.

INNOVATION IN THE PROJECT: Godown booking facility for farmers to store their yields through the APMC.

SCOPE FOR FUTURE WORK

The application can be enhanced in the future by adding an online payment gateway between farmers and traders, information in regional languages, popping messages, applying for trader APMC license, and selling directly to the APMC.