

E-Commodity

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Abstract- E-Commodity is a project which provide the daily prices of the APMC Market Commodities. Farmer, Seller, Buyer can interact using this system. They can use this application just with some basic knowledge about how to use the mobile application. Seller can create own profile and registered their market name. Seller can add the new commodity and their price. Also they can update commodity price and commodity through own profile. The application will guide the user 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 e-learning and centralized approach to view different government's agriculture schemes including the compensation schemes for farming. Getting availed to the required information related to the markets and different products can be made possible through the notification facility provided by the system.

Keywords- E-commodity, APMC Market Price, Online Commodity Price, Commodities daily update

I. INTRODUCTION

Agricultural Marketing is a vibrant subject for academics and administrators as our culture is agriculture. Though India is gifted with a competitive market, developed banking system and higher educational institutions, the marketers is yet to build on these strengths. Agricultural Marketing as a process starts with a decision to produce a saleable farm commodity and involves all aspects of market structure of a system. There are bottlenecks in agricultural marketing system like improper warehouses, inadequate market information, dominance of middlemen, lack of transport and communication. With faster changes in and through technology, agrarian issues are also becoming pertinent. Indian agriculture, despite reforms is vulnerable, not merely due to natural factors but also due to inadequate institutional strength and resilience. Agricultural marketing in India is undoubtedly growing and changing but neither in all places nor for all farmers. It is projected that the emerging scenario appears to be disastrous to the country. Under these circumstances, a Second Green Revolution is expected to clear the mess and keep the nation on right path. The government is expected to usher in the Second Green Revolution.

E-Commodity is a project which provide the daily prices of the APMC Market Commodities. Farmer, Seller, Buyer can interact using this system. Seller and Buyers can register on this system and make his own profile and get in touch with the system. Using these proposed system users can check the various APMC market commodities prices. Farmer can get information about the Agro Market Exhibition Details. In this system seller can register and make their profile and he can update daily commodities prices through his profile login. Admin can send the push notification to the seller for updating the daily commodities prices. Admin can send push notification for the update and different government's agriculture schemes. Also Admin can send notification for the Agro Market Exhibition details to the farmers. Main advantage of this system is available in mobile format so that user and farmer can easily check prices and be aware of constraints on marketing activities.

II. LITERATURE REVIEW

E-Commodity is the system which provide daily APMC market commodities. Currently there is no application for the farmer, traders and agents as well with full transparency. Currently, the farmer goes to nearest market handover 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. Every Agent tries to cuts his commission out of that. There is no way for farmer to know about the deal and the exact amount at which their product was sold. There is no transparency. No facility is present for the farmers to know the product rates at different markets where they can sell their products for achieving high profits. Many times, farmers are not even aware of the schemes and compensation provided by government. In spite of all the opportunities banging the doors the farmers are not able to benefit out of those. Current system does not provide the way of e-learning for farmer that will provide the knowledge of new techniques in farming. So he doesn't get the maximum profit through the current system.

Current system is manual and partially computer rise. Current farmers are used to newspapers, template or other book

for the APMC commodities prices. Online system is available but it is not accurate and it is not daily update. Also it's not user friendly user interface.

- Market has own website but there is not accurate.
- Farmers are not check daily commodities prices.
- Website is not updated daily with commodity prices and information.
- Farmer used to check newspaper for the commodities prices.

AT DIFFERENT MARKETS			
	INA market	Gole Market	Laxmi Nagar market
Tomato	50-55	50-60	40-45
Onion	35-40	35-45	30-35
Kidney Vetch	50-55	50-55	40-45
Bottle gourd	30-35	30-40	25-30
Capsicum	50-60	50-60	50-60
Brinjal	50-60	50-55	40-50
Beans	50-60	55-60	50-60
Bitter gourd	50-60	50-60	50-60

Figures in ₹ per kg

- Only Online website is not proper solution for farmers.
- Website is not best user friendly so that farmer has difficulty to use it.
- Farmer does not aware about the exhibition of agro market of these system.
- Data report generation process is manual, slow and error prone due to human intervention.



- Business growth decision slow and incorrect due to lack of on time Data.

III. WRITE DOWN YOUR STUDIES AND FINDING

The main objective of this project is building an application which will help farmers from Indian villages to sell their products to different city markets. It is a computerized approach for better and clear marketing. Farmers will get unique interface where they can avail everything right from learning to the market information they can perform marketing, get the current rates of market, get in touch with notification through the cell phones, can gather the knowledge of different schemes and apply as well as check status of application. This application will act as unique and secure way to perform agro-marketing. Now a days, farmer has a lot of difficulty to see daily updated commodities prices. they uses newspaper to see daily commodities prices. so that using these system we can solve these problem. these system will notify user of the daily updates of commodity prices. these can solve the problem of farmer exploitation.

There is no need of login for normal user who has the curiosity to know about the market information and different schemes. Farmers who want to perform marketing and apply for schemes must have the login username and password. Along with farmers, the agent/traders which will perform the selling of farmer's product must be authorized through the market committee for their license of marketing and after authorization, they will be given authorized agent ID and password. During authorization, Farmer need to provide his contact number, names of product he farms, his personal details, etc. This information can be used for various purposes of marketing.

IV. METHODOLOGY

Account Generation : In these system seller can make own his profile through registered valid details. After registration seller can add commodities through his profile and update daily commodities prices.

Market Information: Farmer can see the market information of nearby market commodities prices. This will consist of selling rates of different product, today's turnover, product-wise details like quantity, grading, selling cost, etc. It will give commodity-wise, market-wise daily report, commodity wise price during last week, community transaction below MSP(maximum sale price), date wise prices for specified community. Farmer can also search for specific product in particular duration of specific market.

Push Notification: Serves as an alternate to get the market information to the farmers through mobile notification.

Admin can send notification to the seller for the change the daily commodities prices their market. Also admin can send the notification to the farmer for the schemes and compensation provided by government.

Government Schemes: It lists all government schemes related to particular product and area and can aware in the same way as for compensation.

Contact and Location: In these system web portal various market's stall contact number and location are available. User can contact directly to the trader for information and details. User can find the location of the market and get direction through google map.

V. FEATURES INCLUDES

- Support for Multiple Platforms
- Integration with Microsoft .NET Enterprise Servers
- Scalability
- Replication
- Centralized Management
- User-friendly Platform

VI. CONCLUSION

We will develop “E-COMMODITY” System with great concern and will try our best to implement as many as features to make it viable and usable. This system is a powerful and easy-to-use for the user in their day to day life. This System provide daily commodities price option. This is the easiest way for the users and farmers. It is the Application with the latest platform that fulfils the required needs of user and farmers. Nowadays, technology is increasing day by day for making the works of human being easier. It is the platform for the sellers to update commodities prices. In these system admin can send push notification to the seller for the update prices of commodities.

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“Defeat is not when you fall down; it is when you refuse to get up”. We faced many difficulties during our project to ensure, right from the requirement gathering to implementation. There were times when the goal looked beyond reach but all difficulties were accepted as challenge.

Greater the challenges were the effort to overcome it. It has been rightly said that we are build on shoulders of others.

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REFERENCES

- [1] Database System Concepts by Abraham Silberschatz and S Sudarshan
- [2] Agricultural Prices and Commodity Market Analysis Book by John N. Ferris
- [3] ASP.NET: The Complete Reference
- [4] Software Engineering (Roger S. Pressman)
- [5] draw.io
- [6] <https://docs.microsoft.com/en-us/dotnet/csharp/>
- [7] <https://docs.microsoft.com/en-us/aspnet/core/mvc/overview>
- [8] <https://developer.android.com/index.html>