An Android App for Online Auction of Agriculture Products

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Abstract: An online auction is an auction which is held over the internet. It is a popular method for buying and selling products and services. Online auction system helps customers to sell and buy product in best price. It is developed with the objective of making the system reliable, easier and fast. Online auction however is a different business model where the items are sold through price bidding. This project highlights the commission taken by middlemen in the distribution chain, due to which consumer face high inflation. Basically, as compared to farmers investments for harvesting product, farmer get low prices from the middlemen. We will develop an android application which will help farmers from villages to sell their goods directly to end user. This system is introduced with the intension of reducing the gap between farmers and end users, this will increase the profit of the farmers and also end users can get good quality product at cheaper prices as they will directly buy from farmers.

Keyword– IOS, Ionic, Android operating system, Admin Module, User Module, Hybrid platform.

I.   INTRODUCTION:

Farmers basically belong to rural areas, being unaware about the market conditions and due to the lack of study related to various market places over world, they have to sell their AGRI products in local market. Even many times buyers don't have time to go and waste their time to buy the product in market. Now everyone wants to save his time [2]. The commission taken by middlemen in the distribution chain, due to which consumer face high inflation. Basically, as compare to farmers investments for harvesting product farmer get low prices from the middlemen. The bulk amount of profit goes to the middlemen who buy up the farm products at low prices and sell at high prices to the consumers [5].

The basic idea to this problem is providing a user-friendly Android application that will interact with the farmer and consumer/retailer, which will provide online auction for Agri products. Auction means the process of buying and selling goods and services by offering them for bids, taking bids, and selling items to the highest bidders. The traditional way of auction, is still popular but due to its limitations more and more people are thinking for shifting to online auctions. Today's generation is attracted towards online marketing. So online auction is better solution instead of traditional auction. In manual auction system less number of people are involved, chance of corruption is more and there is no transparent bidding. Online bidding will reduce the time for physical auction system. In online auction highest bidder is selected, product is delivered to the highest bidder and the highest bidder pay the farmer amount online. This android application will help to provide better advantage to farmer, simplifies the communication between farmers and consumers by reducing number of middlemen [5].

II.   LITERATURE REVIEW:

Sr.no	Paper Name & Author	Month & Year	Methods	Merits	Demerits
1	Designing a Multilingual Auction Website for Selling Agricultural Products a) Popa Cosmin b) Chiran Aurel	2013	- Classical Auction. - Reverse Auction.	- The content is easy to understand by any person. - Attractive Design. - Chat room is available.	- Not enough information or descriptions about the goods to be sold. - Transaction problems. - Multiple items cannot be sold in single auction.
	An Android Application for	Feb –	- An Online	- Multiple items can	- No secure registration.

2	Online Agri-Auction a) Ms. Nirali A. Kansagara b) Ms.Trupti M. Khurape c) Ms. Jyoti S. Kamble d) Ms. Manasi M. Kulkarni e) Prof.Mr.G.I.Rathod	2016	Transaction Processing (OLTP) database model - Multi-item Auction.	be sold in single auction. - Chat options are not available.	- Improper design. - Unappealing design.

3	Research Challenges in Online Auction
	a) Dinesh Satpute
	b) Mayuri Bhoyar
	c) Amit Kumar Pandey
	d) Prof. Ms. Tinal Thombare
		Feb - 2017	- Admin Auction System
			- Internet Auction.
			- Multi-item Auction.
				- Several items can be vended simultaneously
				- Highly secured
				- Admin is the important factor in the Admin Auction System
					- The admin has to perform following tasks.
					  1) Auction Management
					  2) Lot Management
					  3) User Management
					  4) Data Export Management
					- Sellers and buyers' actions are managed by admin
					- Limited access to sellers and buyers to perform activities

4	Mobile Applications for Agriculture and Allied Sector a) R.L. Meena b) B. Jirli c) M. Kanwat d) N.K. Meena	2018	- Online Auction	Various schemes and applications and its uses available in the market are shown	- Lack of awareness in the people about these applications and schemes
5	Network of Agricultural Commodities for Farmer's Benefit a) Ms. Monika K. Hande b) Ms. Sayali A. Navale c) Ms. Arati D. Jadhav3 d) Ms. Prabhavati		- Classical Auction	- other facilities such as transport, packing, cold storages, etc. are maintain on the demand of buyer or sellers.	- Less secure - Lengthy procedure - Mostly gives sever problem
6	E-FARMING a) Sindhu M R b) Aditya Pabshettiwar, c) Ketan.K.Ghumatkar d) Pravin.H.Budhehalkar e) Paresh.V.Jaju	2012	- Classical Auction	- Get the current rates of market - Get in touch with SMS through the cell phones - Can gather the knowledge of different schemes and apply.	- Multiple items cannot be sold in single auction. - Multi-item Auction is not available
7	Online Bidding Android Application a) Hemant Khandelwal b) Milind Hanchate	04, July 2015	- Penny Auction	- More secured - Easy to operate	- Multi-item Auction is not available

	c) Ameya Rathod				

III. ALGORITHM:

A bidding fee auction, also called a penny auction, is a type of all pay auction in which all participants must pay a non-refundable fee to place each small incremental bid. The auction is extended each time a new bid is placed, typically by ten to twenty seconds. Without new bids the last participant to have placed a bid wins the item and also pays the final bid price. The auctioneer makes money in two ways: the fees for each bid and the payment for the winning bid, totaling typically significantly more than the value of the item.[1] Such auctions are typically held over the internet, rather than in person.

Steps:

1) t = tstart (set auction clock)

2) h = -1 (Currently no winner in start)

3) price = x (start current offer at base value x)
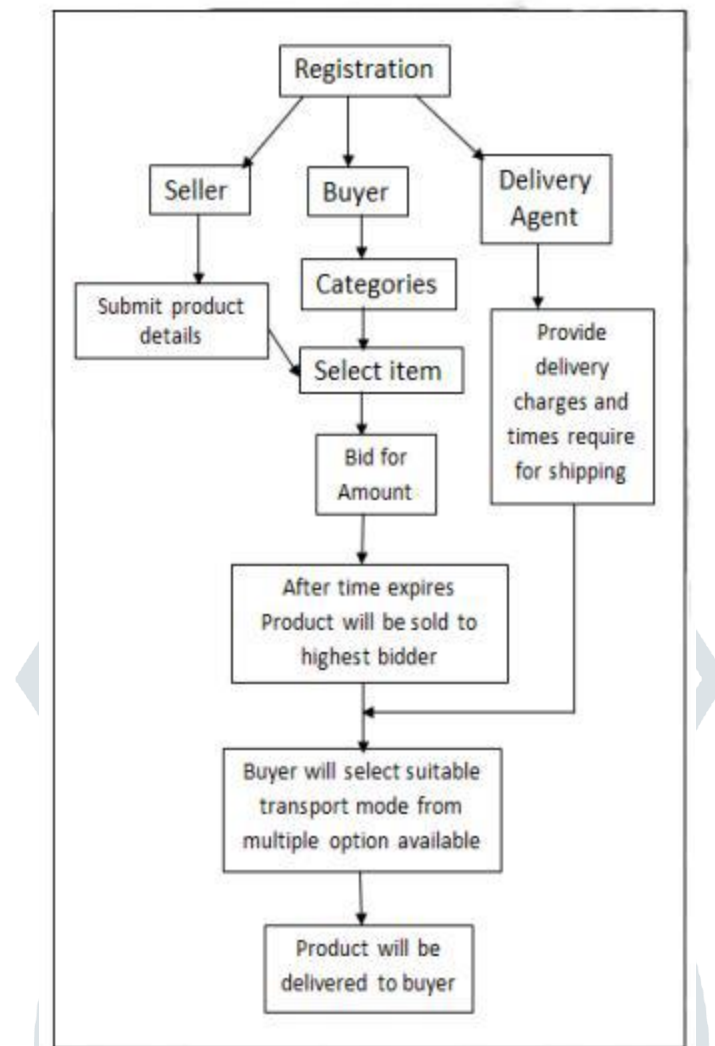
4) while t>0

For all bidders Bido

If i != h and hitBidButton(Bi) then

h = i (make Bi the highest bidder)

price = price + inc (inc is the least amount should be

increased by the bidder to bid higher)

5) sendItem(Bh)

Fig 2. Functional working of system

IV. METHODOLGY:

a. Introduction

The objective is to develop a user-friendly auctioning site where any kind of product is auctioned and provide value-added services to the bidders and sellers. The products will be authenticated and the site provides a safe environment for online users. The existing system was an automated system. But it was inefficient in meeting the growing the demands of the public. In manual auction the day of auction, venue and the items for auctions are told to the general public through electronic or print media. The people who wish to take part in the auction should first register himself and then arrive at the venue of the auction on the given date and time.

This method restricts most of the interested bidders out of the city or country to decline their offer or interest as they can't be available on the day of auction. Another flaw of this method is the piles of paper work that has to be maintained and then keep it save for the future. They have to keep track of the bidders and the sellers until their final settlement. The problem with this system is always the participants used to carry papers with them during the time of bidding and the sellers has to keep all the information of the participants until an unless the auction process gets finished. Another problem is that the auction is only held at the local market not at the global level.

b. Proposed Work

Our proposed work will be a Mobile Application using which the bidders (buyers) and the sellers (farmers) have to deal everything from their Mobiles from any continent and they don't need to go anywhere. It aims to provide android platform for creating virtual market place for connecting farmers directly with customers to remove all the middlemen. This application facilities the farmer and the buyer to create their profiles and update information related with the post of product (like quantity, bidding time, bidding price, etc.). Using this application seller and buyer can deal without any physical efforts as this app will be

available on the Android based mobiles. One can easily login anytime, anywhere with correct login id and password and processed for a deal. As buyer can search/bid for the product which is added by farmer so transparency about price is maintain during deal and process of online auction become simple. In this system other facilities such as transport, packing, cold storages, etc. are maintained by the online portal on demand of buyer or sellers.

c. **Login and register module**
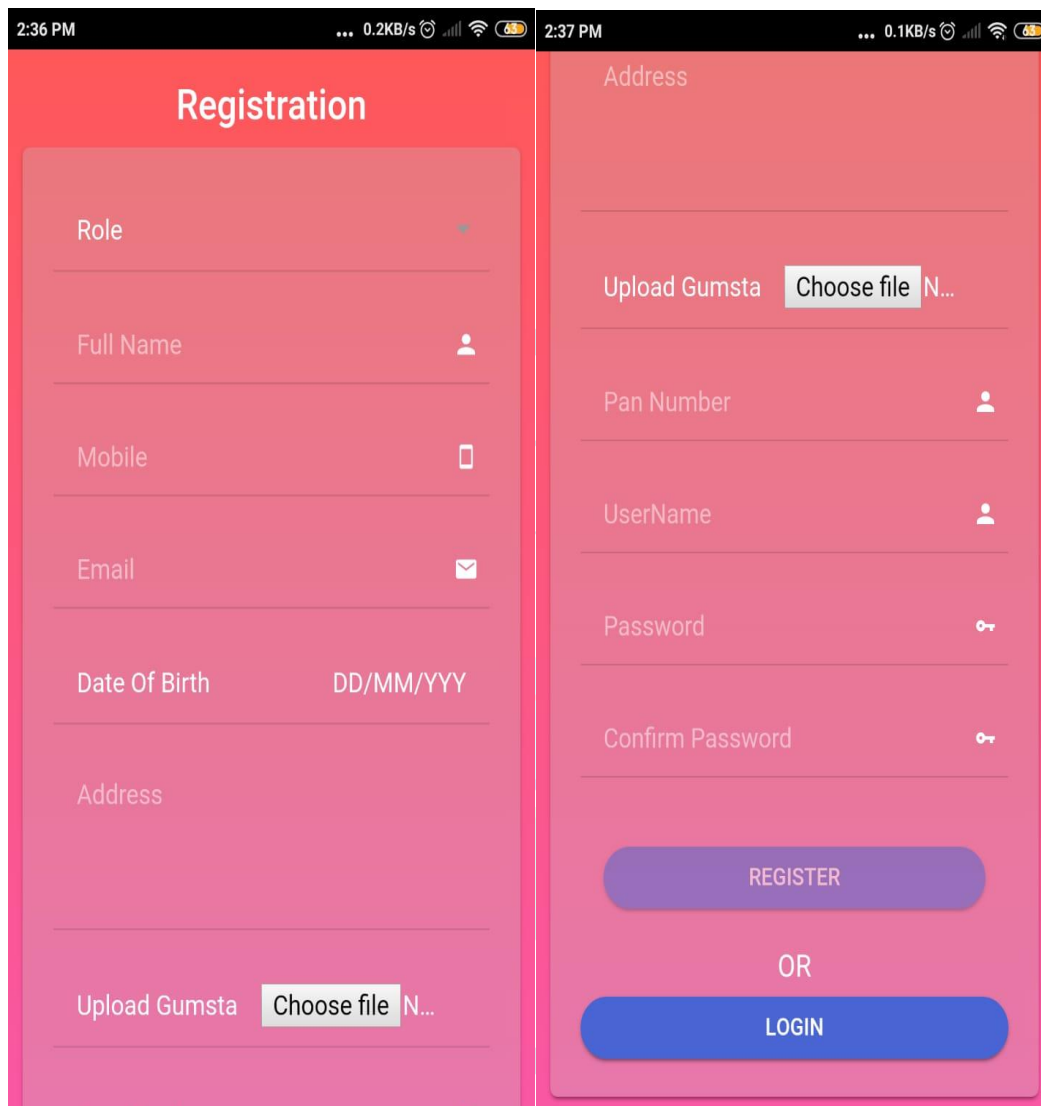
Fig: Registration Module

In this module any one can register or login for this app. In this the validation for user name and password is of up to minimum five characters. If the user is not login then he/she should register first.
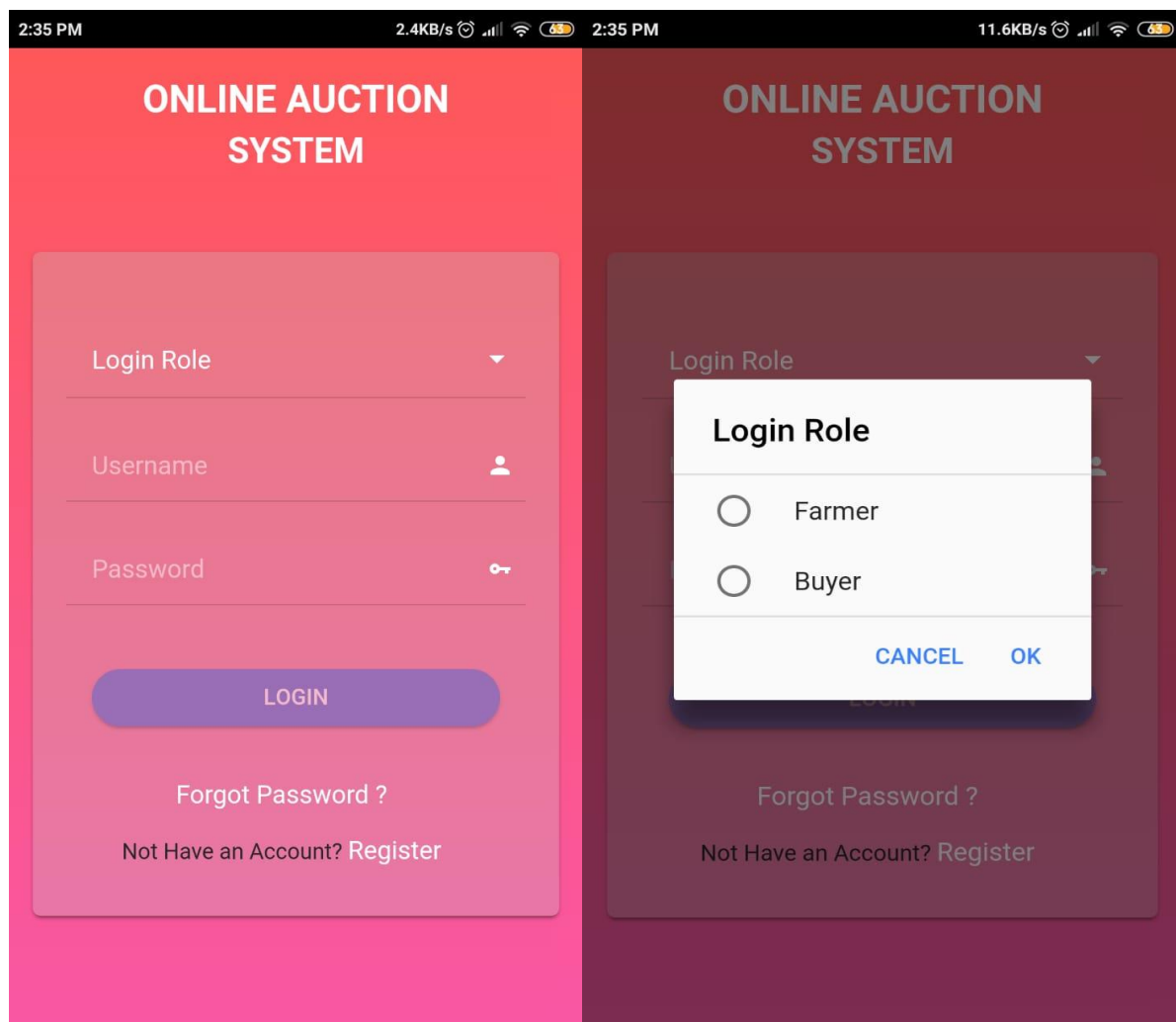
Fig : Login Module

V.   CONCLUSION:

Overall we provide a user-friendly auctioning site where any kind of product can be auctioned and provide value added service to the bidders and sellers. In the first phase of our project we have developed two modules. Our first module is the validation for the administrator. In the second module we provide the registration for the seller and buyers. If already registered then the user can directly login to the auction website and the administrator can keep the overall data of the users. Final phase of our project requires shipment process, where the winner of the bidder will get his products delivered through proper online transactions.

VI.   ACKNOWLEDGMENT:

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