

A Direct Approach To Sell Agricultural Products To Consumers Using Location Based Service

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Abstract:Customers are always eager to purchase agricultural products at best prices and relatively fresh products. The involvement of storage houses and large scale distributors is always harmful to end consumer and farmer because these people take much of profits and literally nothing is left for farmer. There is always need of a system where direct selling by farmer is required as end consumer would get fresh agri- product and farmer would be benefitted. The biggest challenge to achieve this is location variation as seller and buyer could be actually far and it is not feasible to reach agreement due to additional transportation cost. In the current research the same has been achieved to relatively a next step as location of seller and buyer is also taken into consideration before reaching to an agreement.

Introduction

The main Goal for the creation of this Application is to deliver the products directly from farmers to customers so that mediators are removed in between. Our Application and team mediate between them so that the true value of the product can be gained by farmers and customers by developing an easy to use user-friendly application; where clients can search for items view a total description of the products and order the products. Additionally, to create a search engine that gives a simple and better idea to look for products exclusive to their needs. The search index will list a lot of products dependent on the search term and the client can additionally channel the rundown dependent on different parameters.

Background and Terminology

The Farm to Home task manages the internet purchasing of the Products by the clients. The clients who have signed into their record can just purchase the Products. Others can just view the Products that are available to be purchased. The farm to home application will enable their preferred clients to buy the Products easily through online mode. This will help in sparing the vitality, fuel, time expected to do the shopping by heading off to the shops.[1] With regards to the acquisition of the Products, individuals will be possessive of its various items, quality, cost and a lot more things. Along these lines, this application (Android App) will give a decision to the clients to choose among different item choices that are accessible without any difficulty. Well, till

now no online application is utilizing this idea yet numerous online applications are there which are tolerating made and pay them some fix add up to the end client. Any web client can utilize this current App to look for any sort of items, select specific items from a wide scope of items.[2] Once they make of their mind to buy a specific thing, they can put in a request and make payment. The seller buyer would be matched as per nearest location wise which would be accessed from their app.

The Purpose of this research is to deliver the products directly from farmers to customers so that mediators are removed in between or their role in minimized. Selling farmer products directly to the customer, not the farmer will gain extra profit that he deserved but also the customer can save money and health.[3] There are a few online web-based interfaces just as our androidapp which solves similar purpose. In any case, the greater part of them wind up including merchants as one of the intermediates which again begins the roundabout selling chain of supply of the items. This is the most widely accepted topic that consumers who shop normally look for fresh products and at cheap prices. Regularly, the essence of the element is not adequate for what is shown in the images. When misapplications become a commercial center for merchants to sell their products, with the difficulty emerging in the advertising business, and the problem of false dealers is growing. Enrollment keeps an eye on mediocre and selling low quality for brands ' sake is slowly becoming common. Surprisingly more awful, quality checks have become so unusual with the size of online deals that take off high. The biggest problem when buying things online is that you don't have any assurance of the quality of an item. Random checks are not always guaranteed and all the tests cannot guarantee the qualities apart from fakesellers who deliberately delude customers to expand deals are the primary purpose behind defective / below average items being sold. With the amount of goods handled by e commerce today, it can very well be very difficult for them to keep an eye on all the items they sell. In any case, there are no quality issues with the products in the ranch to home due to the fact that the goods are legitimately from the customers.[4] Although all online business locations have requirements for their customers to meet frameworks, they are not always accurate. Individuals would prefer not to see something very similar each time they open an application, which is the reason the most well-known web-based life destinations show you knew posts first. So that application has a comparable capacity to feature new and refreshed substance. Android Animation is utilized to give the UI a rich look and feel. Liveliness in android applications can be performed through XML or android code. Movement in android applications is the way toward making movement and shape change. The framework is self-explanting and needn't bother with any whole modern preparing. A framework has been worked by focusing on the graphical UI ideas; the application can likewise be taken care of effectively with an amateur employment.[5] As the product that were utilized as building up this application are conservative and are promptly accessible is the market the main time that is lost by the client is simply establishment time.

Research Methodology

The system design is created to solve problems discussed above by creating a framework which would match sellers and buyers based upon their location as well. This stage centers on the nitty-gritty execution of the attainable framework. In the intelligent structure phase, the investigator depicts inputs, outputs, databases and systems in a configuration that meets the user requirements. The expert also finds the customer's requirements at a level that determines the data stream throughout the framework and information assets for all intents and purposes. With the use of information stream graphs and database structure, the work plan is created. A formal design or software follows the physical structure. The physical configuration creates the working framework by characterizing the plan, which includes exactly the application framework is supposed to do. The developer creates the logic that identifies the task executed from the client, perform vital preparing on acknowledged information and print the required report on a printed version. The configuration of the info consists of deciding the information sources, approving the information, limiting the passage of information, and providing a multi-client office. Blunders entered by administrators related to the communication flow may be restricted by the input structure. Information is extracted and converted into group of comparable information. When conversion is complete all the data is accepted and the customer is alerted by a message if any information is vague. For this purpose, an Android App is intended to be easy to use and readily available. The structure is completed with the ultimate goal of getting proper messages from clients when exceptional cases occur. Android output is the customer's most important and direct data source. The mapping is completed by matching nearest buyer-seller pair location wise.

RESULTS AND DISCUSSION

All we have done here is to create a resource option for direct transaction between buyer and seller and eliminated the need of middleman in trade. The matching would be done based on location of buyer and seller. These focuses truly help in making ventures in future. Our attempt in current study opens the scope for new innovation and challenges still being faced in terms of ratings that can added for a buyer and seller. The figures shown below are some of snapshots taken from app. The first interface visible to the user after opening the application is splash screen.

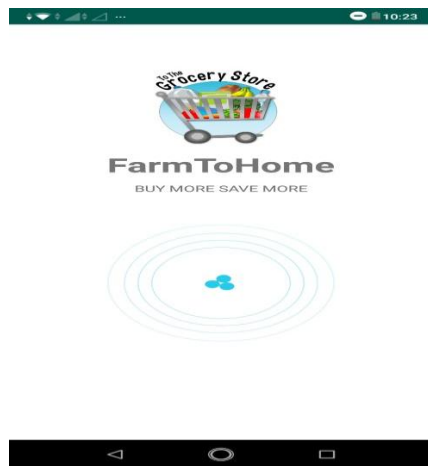


Figure 1: Login Screen in android App

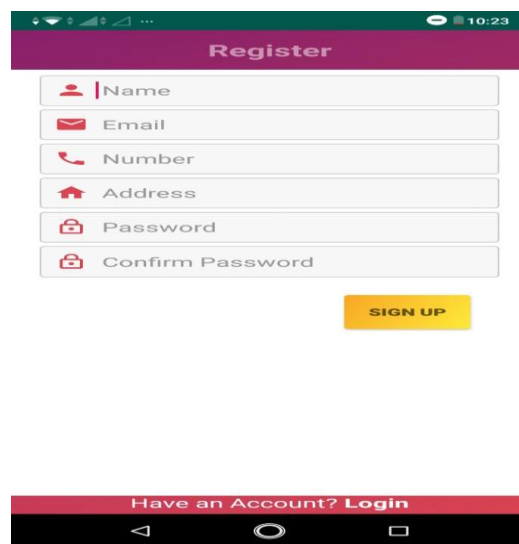


Figure 2: User registration screen in android App



Figure 3: sample screen to select Agri items

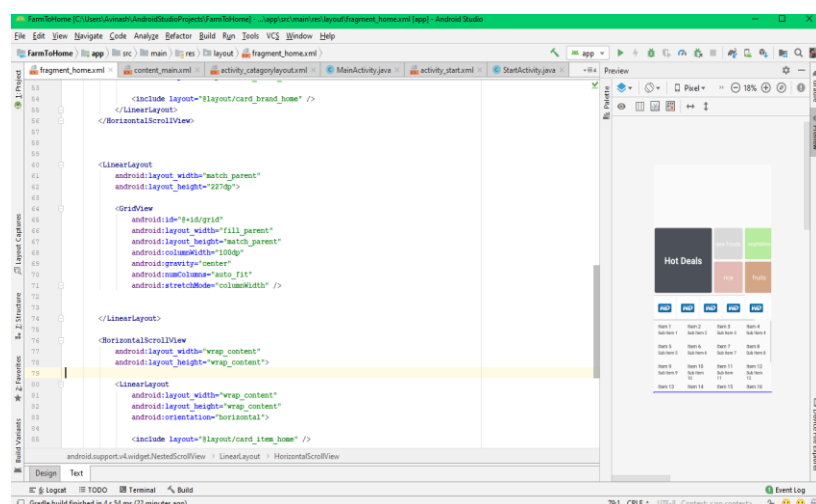


Figure 4: Sample work screen in Android Studio

CONCLUSION

The implementation discussed above tries to bridge the gap between farmer and end user consumer for their mutual benefits. The difference in approach followed in current study is different from those followed earlier in a way that our approach follows location based search to realize the actual agreements for mutual benefit. The android app is available on play store and can be easily used by anybody and even by a person who is less educated. The next feature is multi lingual approach that is used in current research thereby making it readily available and ready to use.

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