

MINISTRY/ORGANIZATION NAME: FCRIT, Vashi.

PROBLEM STATEMENT: Portal for Farmers to sell the product at a better rate.

• Problem statement in Description

1. System that provides farmers an interface to sell their product, and connect with the buyers all over India
2. Simple interface that works on mobile, MS to upload product details and respond via phone and SMS (taking care of digital divide)
3. Interface for anyone to buy the produce/vegetable – initially visit the place and buy or have courier service integrated to deliver the vegetables so Farmers can get a better price for their produce, no additional cost spent in marketing and delivery of goods, however they can choose to charge more by delivering the items themselves.

TEAM NAME: Agrocrafter.

TEAM LEADER NAME: Abhishek Gupta.

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COLLEGE CODE:

IDEA/SOLUTION/PROTOTYPE:

Agrocrafter is an online portal with a pure vision to consolidate farmers and buyers who can either be consumers or restaurant owners.

1. The farmers have to register on the **multilingual portal** which allows the farmer to choose his preferred language, following which a **verification team** will verify the legal documents and the quality of the products on site. That being done, the farmer will be **certified** which makes him eligible to upload his products online after logging in. He will be familiarized with the statistics of the number of farmers in his domain and vicinity.
2. The farmer can insert his product, update/edit his product details and delete the product from the portal via the website, **SMS and call system** (Call Centres). The portal also provides a personalized **chat section** with the buyer which bridges the gap between remote farmers and buyers. The farmer will be **notified via SMS/website** when a buyer buys his product.
3. When the farmer enters his price for his product, he will be shown the **prevalent market price** range for that particular product with the help of algorithms.
4. On the other hand, once the buyer is registered and logged in, he gets to access and buy all the products put up by the various farmers according to his choice. If a buyer has a preference of any location, from where he desires his product, he can **search the products on the basis of location (state and district), and price**, thereby implementing the **filter system**. The **review system** backed by the feedback from the previous customers and the **bestsellers feature** enables the buyer to buy the best products and the **reporting system** helps to maintain mutual integrity on the platform. If three negative reviews is noted against a particular farmer, he no longer stands eligible to use the portal. The verification team will respond and once again verify, after which necessary actions would be taken. If there's any product that the buyer needs on a regular basis, he can use the **subscription feature** by which he has to order that product only once and specify the duration and also the days he requires the product.
5. The **recommendation system** displays the product frequently bought by the buyer, and also specifies the products bought together which helps in easy use of the website.
6. If **scarcity** of a particular product arises at any instant of time, at a particular location, the buyer will be given **suggestions of locations closest to his vicinity where the product is available**.

Agrocrafter is an online portal with a pure vision to consolidate farmers and consumers/buyers. Farmers can upload their products online with their market value and the buyers can buy the fresh products direct from the farm easily.

1. Farmers undergo the scrutiny of middlemen (traders), losing 75% of their output to them, whereas in the meagre amount left, he faces a couple of monetary challenges (paying for pesticides, agricultural equipment). **Agrocrafter enables to eliminate this intermediary broker and gives the farmer fair and licit revenue for his yield.**
2. Farmers pay a hefty delivery fee, on a daily basis, which significantly scars their pockets. **Agrocrafter, becomes the delivery service and supplies the produce to the consumers and buyers, and liberates the farmer from the colossal delivery fee.**
3. In more than one cases, scarcity of a specific product is noticed at a particular location. **Agrocrafter bridges this problem of lack, and enables even distribution.**

4. Farmers in remote areas have no idea of the prevalent market prices. **Agrocraft works in indoctrinating these lost farmers with the current situation in the market, uplifts them by linking them straight to the buyers and gets them in the game.**

FEATURES:

1. Sms .
2. Call centres.
3. Simple interface for farmers.
4. Farmer can suggest their own price, in regards with the market price.
5. Buyers get a larger scope for selecting choicest products from all around India.
6. Buyer can buy product on the basis of review system.
7. Reporting system.
8. Subscription.
9. Chat system.
10. Stats of farmers
11. Multi lingual portal.
12. Notification system (buyer after buying, farmer when someones buys his product)
13. Demands and Price predictions,
14. Verification farmers
15. Verification products
16. Recommendation system.(Smart basket)
17. Bestsellers
18. Search Engine & Categorical Search
19. Trust Coin.
20. Product Search via Location (State ,District Wise and Price)
21. Courier System Integration.
22. The above portal envelops every aspect in terms of functionality, feasibility, practicability.
23. Enhancing Searching through filters

TECHNOLOGY STACK:

1. Web Technology: - HTML, CSS, PHP, JavaScript, AJAX, Bootstrap and Django.
2. Programming languages: - Python and Java.
3. Mobile Development:-Android Studio, Android SDK and Jellybean.
4. Backend Development:-My SQL Database and Firebase.

USE CASE DESCRIPTION:-

DEPENDENCIES:-

1. The farmer must possess a basic phone.
2. This application can be installed in all devices having Android version Jellybean and higher.
3. An online portal generated shall require IE v9 or higher, Google Chrome, Mozilla Firefox, or any other web browser.

SHOWSTOPPERS:-

1. Call Centres.
2. SMS
3. Farmer profits increases owing to the fact that farmers sell their products at market rates, eliminating the middleman.
4. Buyers can get their hands directly on fresh products according to their choice of product, variety and time, straight from the fields in reasonable prices.
5. Multiple farmers (many of which reside in remote areas) get in direct touch with buyers in capital cities and the prices are negotiable between them with no involvement of the admin whatsoever.

