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Agri Buzz (Change the Way Farmers Trade)

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ABSTRACT: “AgriBuzz or KrishiMitra or E Agriculture Market for Farmers” is a website for online agricultural trade. This website helps farmers by providing them a large market online to sell their produce. They can also hire farm labourers and be updated with the recent agricultural developments. The wholesalers and the retailers are also benefited as they can buy from a larger market. They can shop for farming equipment’s easily. The consumers can also buy fresh produce directly from the farmers.

To provide technology and services to the farmers, merchants and farm labourers, thus, helping them to expand their business and provide them with a wider market. Hence, improve the present farming processes and to provide knowledge about recent agricultural issues.

To provide a helping hand to the farmers and farm labourers in improving their lives through the medium of technology, thereby, improving the Agricultural Sector in the Indian Economy.

1. INTRODUCTION

The name ‘E-Farming or KrishiMitra indicates Intelligent Agriculture. ‘E-Farming is a model farmer management website application. This site helps the farmers to sell their agricultural produce online and suggests best - in-practice farming processes. Hence, providing a wider market and helping them to not restrict themselves to the local market. It helps the wholesalers and retailers in buying produce from larger number of farmers. Thereby, enables the wholesalers and retailers in expanding their business. It features online shopping for fertilizers, pesticides, machinery & tools, etc. It helps the farmers to keep track of their agricultural production with features such as virtual calendar, weather forecasting, etc. and enables them to hire labourers, which in turn, will help the farm labourers to find small jobs by having a work profile in the website. As a whole, ‘E-Farming provides a concept of virtual agricultural trade to its users.

Modules of the project:

- Customer account module
- Product module
- Category module
- Location module
- Production module
- Purchase request module
- Purchase order module
- Seller module
- Labourer module
- Work request module
- Article and blog module
- Dashboard Module

Existing System:

- Existing system was not user friendly.
- The system not providing solution for new Farm Acts 2020.

- Existing system doesn't have online sales option.
- In the existing system farmer has to sell nearest agents.
- Existing system doesn't provide any information to the farmers.

Proposed System:

- Developing an user friendly agricultural management System for the world wide web which fulfil the Agriculture Interested People's requirements.
- This website connects farmers with customers. Here customer and farmers can search and view any kind of information. This site helps the farmers to sell their agricultural produce online and suggests best -in-practice farming processes.
- Improvement in quality of farming system.
- Continuous improvement in components technology to fit into a given farming system
- Targets: Mainly developed to sell Indian crop such as coconut, rice, tea, coffee, fruits, rubber, ect.
- Provide all the information for the Research articles, news, subsidies, informative articles, agriculture tools and materials, etc.
- The complete process of Farm Management will be managed online.
- To allow users to search and view Information on machinery tools, chemicals, Crops, insecticides, pesticides, etc. using our application.
- The articles and blog sections help farmers to gain knowledge.
- Administrator can view and print all kinds of reports.
- It allows the farmers to keep track of their agricultural produce.
- It helps the farm labourers in finding jobs.

To provide technology and services to the farmers, merchants and farm labourers, thus, helping them to expand their business and provide them with a wider market.

- Hence, improve the present farming processes and to provide knowledge about recent agricultural issues.
- To provide a helping hand to the farmers and farm labourers in improving their lives through the medium of technology, thereby, improving the Agricultural Sector in the Indian Economy.

Language(s) to be used:

- Design and Interface: HTML ,CSS
- Programming language: PHP
- Scripting language: AJAX, Javascript
- Database: MySQL Server

Hardware Requirements:

- Operating System: Windows XP, 7 OR 8
- Processor: Intel Core Duo 2.0 GHz or more
- RAM: 1 GB or more
- Hard Disc: 80 GB or more
- Monitor: 15 inches CRT or LCD Monitor
- Keyboard: Normal or multimedia keyboard
- Mouse: Compatible Mouse

Software Requirements:

- XAMPP 1.8.2
- APACHE Server 5.4.19
- MySQL Server 5.4
- Adobe Dreamweaver CS 6.0
- Browser: Google Chrome, Mozilla Firefox

Innovativeness and Usefulness:

- Farmers can sell their produce online which can be purchased by wholesalers and retailers. Buyers can send purchase request to check the quality of the product.

- After negotiating the price for the produce, the farmer sends a purchase order. This module covers these entries and charge details also should be entered. The payments will be received from the wholesaler/retailer, once the produce is delivered to them.
- There are four types of users: farmers, wholesalers/retailers, labourers and administrator. The login ID and password is required to login to the system.
- The articles and blog sections help farmers to gain knowledge.
- Administrator can view and print all kinds of reports.
- It allows the farmers to keep track of their agricultural produce.
- It helps the farm labourers in finding jobs.

II. METHODOLOGY

• System Analysis:

The system analysis approach emphasises a closed look on all parts of the system. The analyst must consider all the system elements, their inputs, outputs, control, feedback and the environment when the system is being constructed.

- System Design: The goal of system design phase is to produce a model or representation of the system, which can be used to build the system. Here the emphasis is on translating the requirements of the system into design specification.

1. Applicable Documents:

The document used in system design is Software Requirement Specification Document.

1. Functional Decomposition:

The system can be decomposed into functional components as follows.

The Components

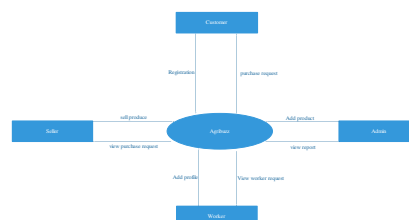
Registration component for customers, farmers and workers.

- Login component for customers, farmers, workers and administrators.
- Produce selling component for farmers.
- Agro Product selling component for administrator.
- Produce purchase request component for customers.
- Agro Product purchase component for farmers.
- Produce purchase approval component for farmers.
- Produce purchase report component for customer and administrator.
- Category, variety and item typesetting components for administrator.

1. Program Description:

3.1. Context Flow Diagram:

Context flow diagram is a top level data flow diagram. It only contains one process node that generalises the function of the entire system in relationship to external entities. In context diagram the entire system is treated as a single process and all its inputs, outputs, sinks and sources are identified and shown.



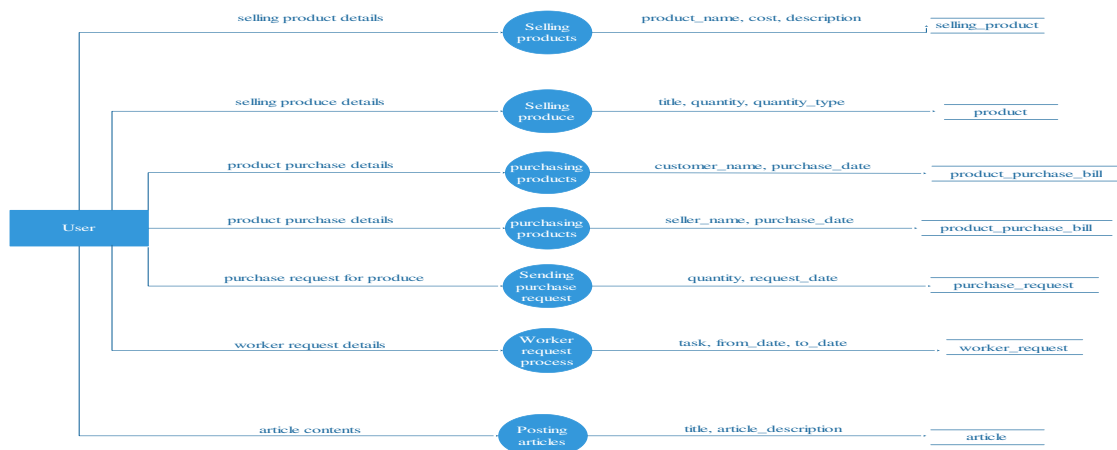
3.2. Data Flow Diagram:

A data flow diagram is a graphical representation of the flow of data through an information system. A data flow diagram can also be used for the visualization of the data processing. It is common practice for a designer to draw a context level DFD. It shows the interaction between the system and the outside entities. This context level DFD, is then exploded to show more detail of the system being modelled.

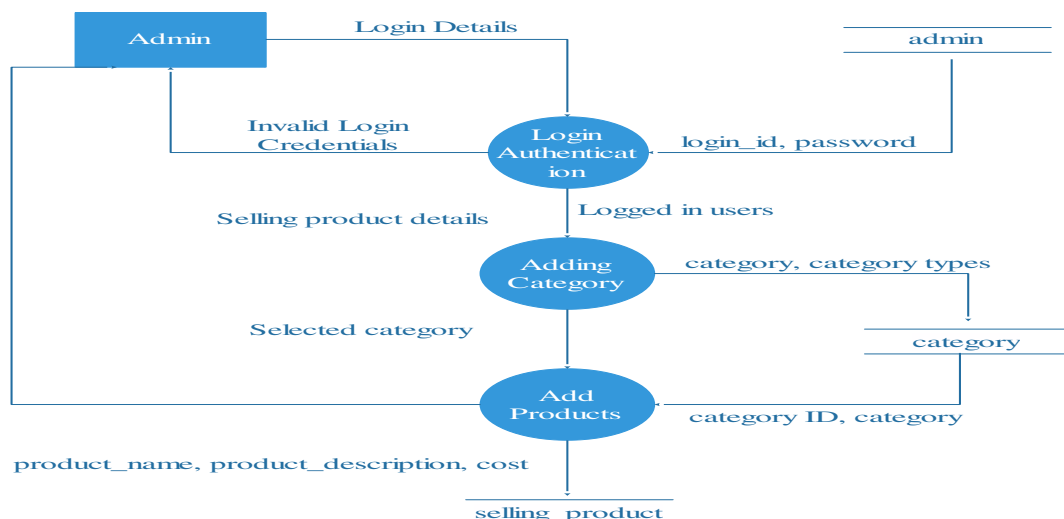
A DFD represents flow of data through a system. Data flow diagrams are commonly used during problem analysis. It views a system as a function that performs the input into the desired output. A DFD shows movement of data through the different transformations or processes in the system.

Data Flow diagrams can be used to provide the end users with the physical idea of where the data they input ultimately has an effect upon the structure of whole system from order to dispatch to restock how any system is developed can be determined through data flow diagram. The appropriate register saved in database and maintained by appropriate authorities

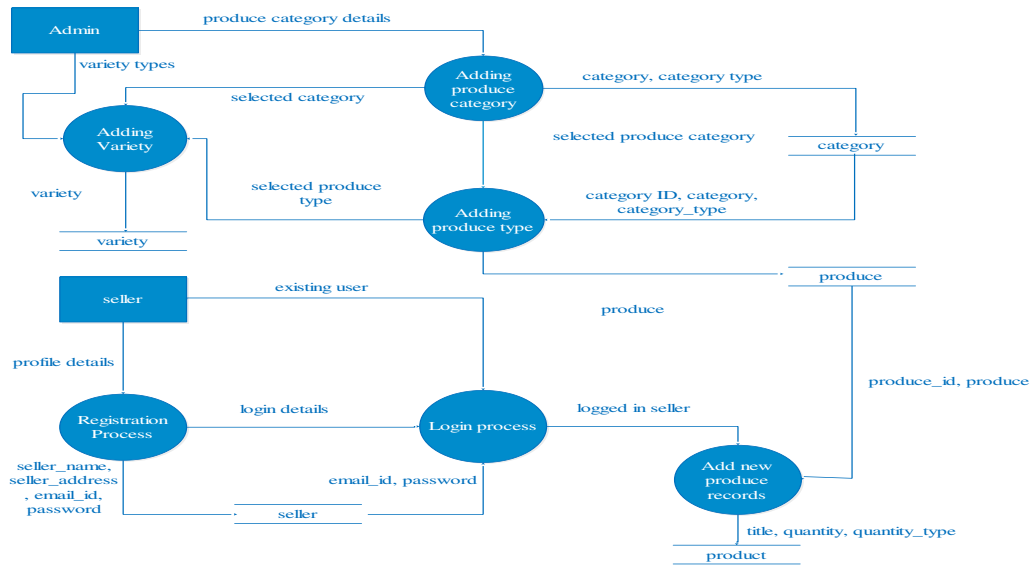
Top Level DFD – Level 1:



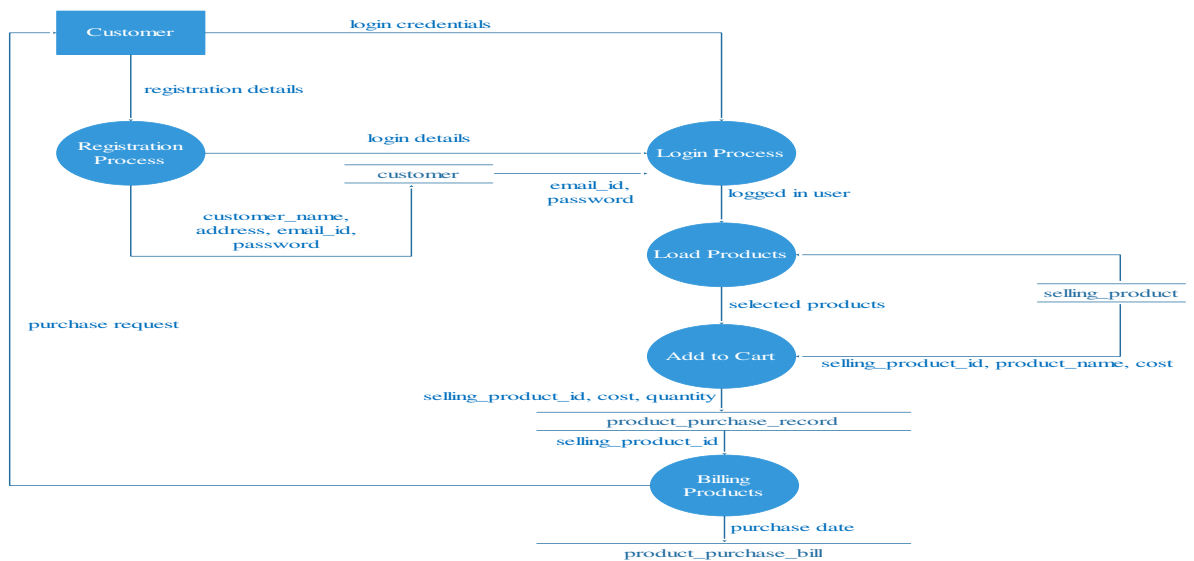
DFD Level 2:



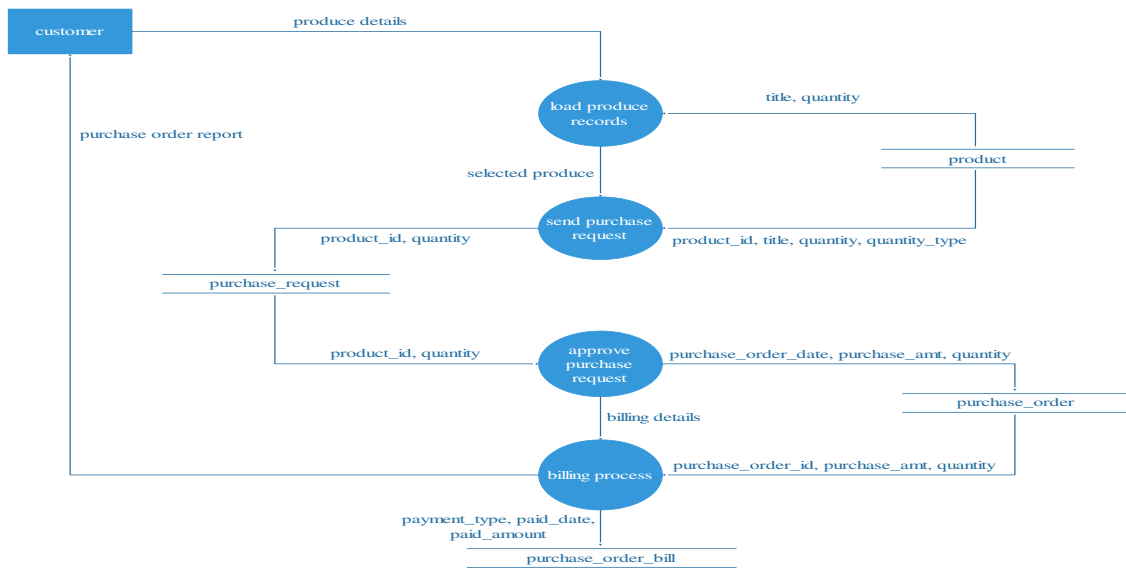
DFD Level 3:



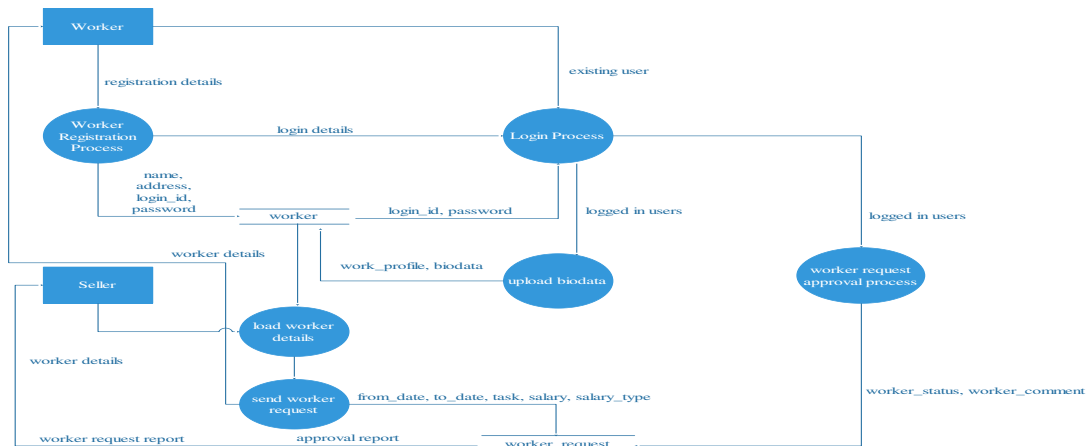
DFD Level 4:



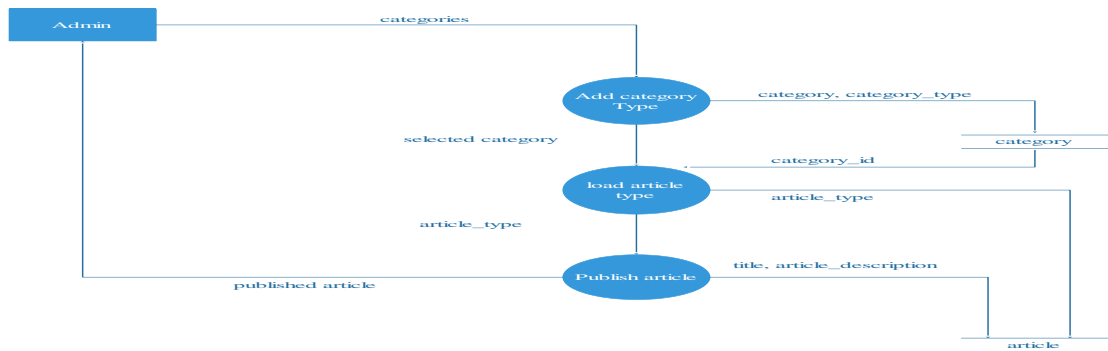
DFD Level 5:



DFD Level 6:

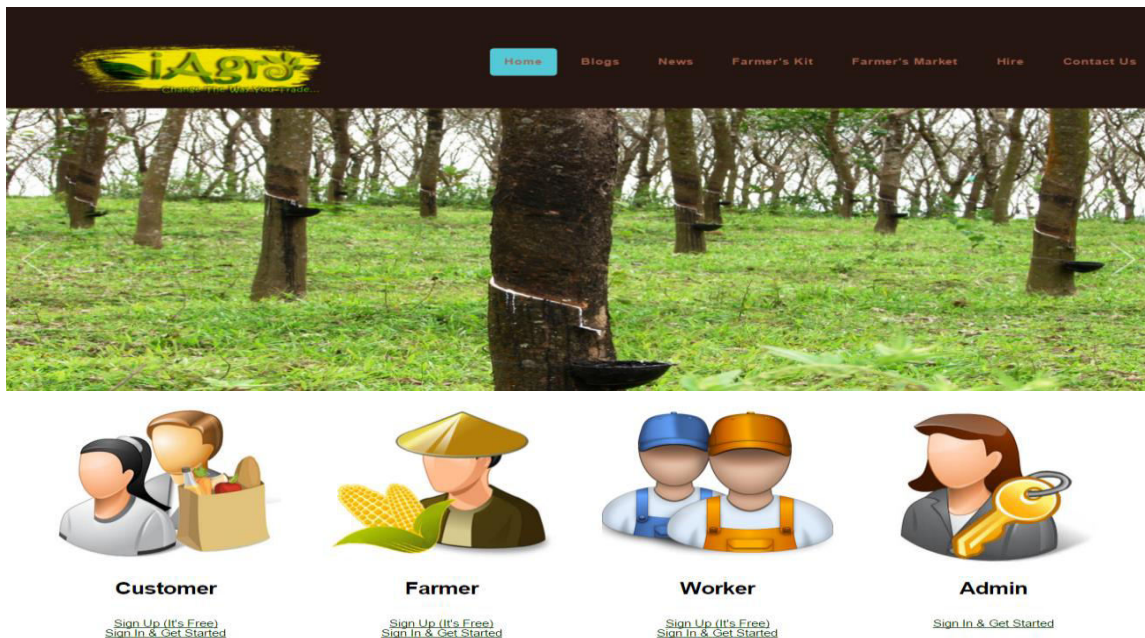


DFD Level 7:



III. RESULT

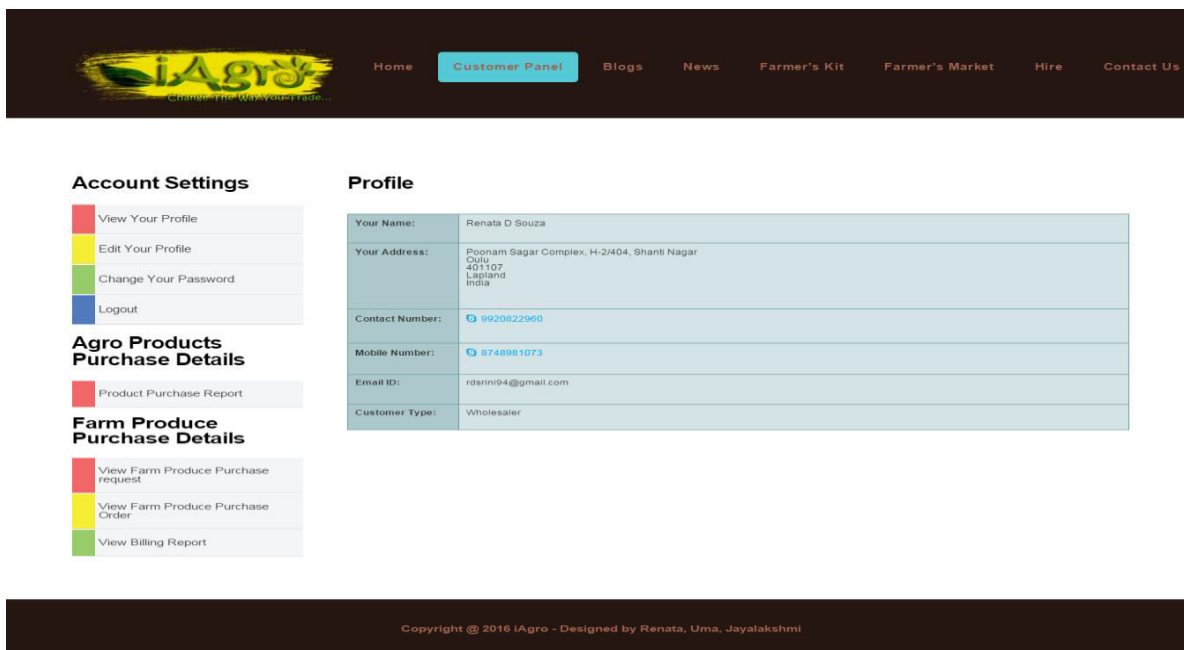
Testing is the major quality control measure used during software development. It is a basic function to detect errors in the software. During the requirement analysis and design the output of the document that is usually textual and non-executable after the coding phase the computer programs are available that can be executed for testing purpose. This implies that testing not only has to uncover errors introduced during the previous phase. The goal of testing is to uncover requirement, design, coding errors in the program. Testing determines whether the system appears to be working according to the specifications. It is the phase where we try to break the system and we test the system with real case scenarios at a point.



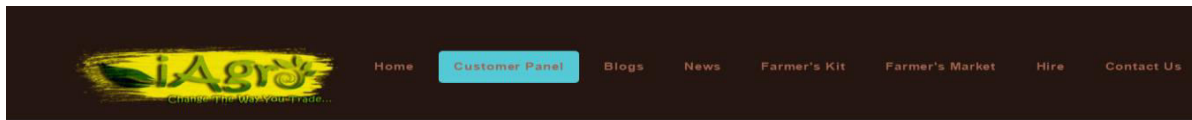


- This page displays information about “iAgro”.
- It displays the current weather forecast.
- It contains different login options.

When Login button is clicked and the Login ID and Password field are valid, the user is directed to the Customer Panel Page



View Your Profile: This page displays the customer information such as name, address, contact information, Email ID and Customer Type.

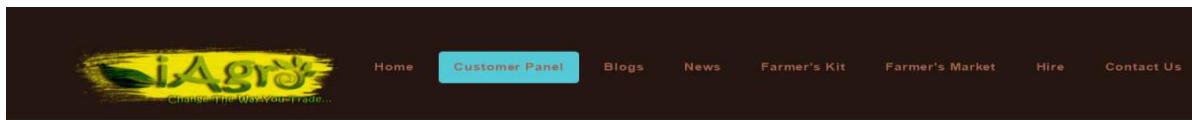


Account Settings

- View Your Profile
 - Edit Your Profile
 - Change Your Password
 - Logout
- #### Agro Products Purchase Details
- Product Purchase Report
- #### Farm Produce Purchase Details
- View Farm Produce Purchase request
 - View Farm Produce Purchase Order
 - View Billing Report

Profile

Your Name:	Renata D Souza
Your Address:	Poonam Sagar Complex, H-2/404, Shanti Nagar Oulu 401107 Lapland India
Contact Number:	9920822060
Mobile Number:	8748081073
Email ID:	rdsm94@gmail.com
Customer Type:	Wholesaler



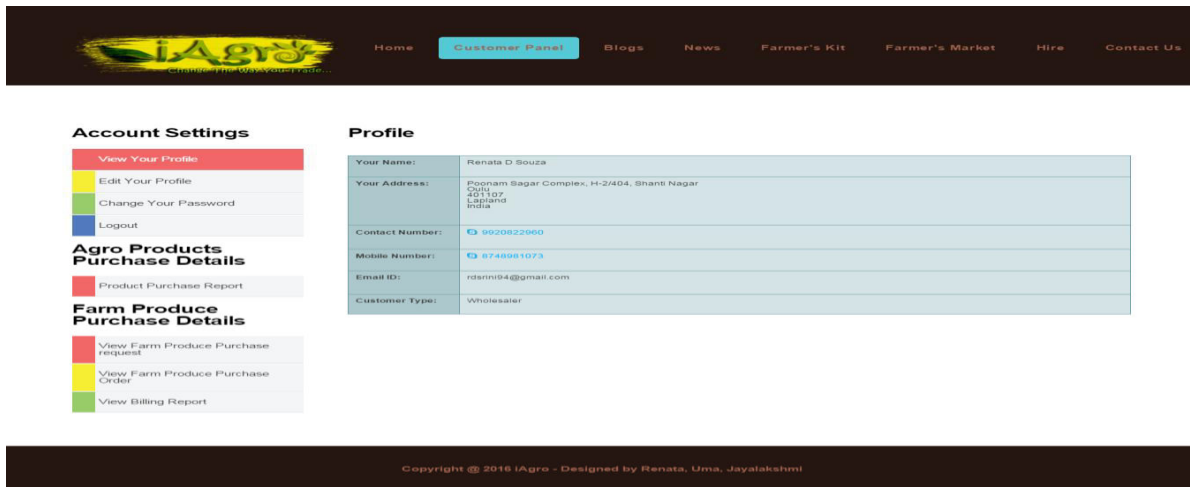
Account Settings

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- View Farm Produce Purchase request
 - View Farm Produce Purchase Order
 - View Billing Report

Profile

Your Name:	Renata D Souza
Your Address:	Poonam Sagar Complex, H-2/404, Shanti Nagar Oulu 401107 Lapland India
Contact Number:	9920822060
Mobile Number:	8748081073
Email ID:	rdsm94@gmail.com
Customer Type:	Wholesaler





The screenshot shows the 'Customer Panel' of the 'iAgro' website. The navigation bar includes 'Home', 'Customer Panel', 'Blogs', 'News', 'Farmer's Kit', 'Farmer's Market', 'Hire', and 'Contact Us'. The main content area is divided into two sections: 'Account Settings' and 'Profile'. The 'Account Settings' section includes links for 'View Your Profile', 'Edit Your Profile', 'Change Your Password', and 'Logout'. Below this are sections for 'Agro Products Purchase Details' (with a 'Product Purchase Report' link) and 'Farm Produce Purchase Details' (with links for 'View Farm Produce Purchase Request', 'View Farm Produce Purchase Order', and 'View Billing Report'). The 'Profile' section displays a table with the following information:

Your Name:	Renata D Souza
Your Address:	Poornam Sagar Complex, H-2/404, Shanti Nagar 201107 Gurgaon India
Contact Number:	9920822960
Mobile Number:	9748981073
Email ID:	rdsrini94@gmail.com
Customer Type:	Wholesaler

At the bottom of the page, a copyright notice reads: 'Copyright © 2016 iAgro - Designed by Renata, Uma, Jayalakshmi'.

IV. CONCLUSION

The project "AgriBuzz" is a man-made project and, therefore, there may be mistakes and limitations. The ideas put up may be different. The terms and names may be different. However, our sincere effort was to give the best. The advanced techniques like sensor technology can be used in the future for measuring the quality of the product.

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