

E-Agricultural Market

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Abstract : E-Agricultural market will use the world's biggest electronic internet media to provide the online market in all agriculture related needs. E-Agricultural market will connect the farmers across globe with the huge opportunity in the world of agriculture by bringing critical data at their finger tips at the right moment. E-Agricultural market is a Center designed to address the business aspects of the farmers' produce. It is a platform for the farmer to buy and sell his produces. E-Agricultural market also provides the farmer with information that is required to take critical decisions; namely: finance, seeds and other information that is required to do his business. E-Agricultural market is a one point centre for everything the farmer wants to run his business. E-Agricultural market also provides channel for other entities like Bank, Agents (Property and goods) and Companies etc., to advertise and participate on this platform.

Keywords : E-Agricultural, E-Commerce Farmers.

1. INTRODUCTION

E-Agricultural market is an India first online market place catering with passion to the complete welfare of the farmers. All buy and sell aspect of farmers are done online. E-Agricultural market worked at root level in the village since last three years to get pulse of the farmers and understand their immediate problems and requirements. E-Agricultural market help farmer to buy quality and certified product like seeds, fertilizer equipment and pesticides competitive price directly from manufacturers. E-Agricultural market provides latest and updated information regarding cultivation, weather and market price of commodities. E-Agricultural market, a fully owned subsidiary of E-Agricultural market India Private Limited is today's one of the fast growing India-based online market in all agriculture related needs. This company is rated among the best deal of agriculture product online for farmer. Most Reputable Companies' by Globe government and among 'India's Most grow able E-Commerce Companies for the farmers.

Domain : E-Agricultural market solutions & services are powered by deep Domain understanding and practitioner's expertise in focus industries.

Data : From Infrastructure to Insights, E-Agricultural market enables clients to leverage the power of Data with actionable insights and prescriptive analytics.

Digital : E-Agricultural market provides Digital solutions to help farmers transform their agri needs and enhance customer engagements.

Design : E-Agricultural market provides UI/UX, high-end engineering design solutions and services to market-leading engineering organizations worldwide.

Differentiated Delivery : With excellence forming the corner stone of each engagement, E-Agricultural market is committed towards customized Delivery: Outcome-based, JVs, As-a-service and Subscription models.

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1.1. Existing System

The existing technology, farmer sale and buy is an old traditional system. This existing technology has many limitations. Functions of traditional system are given below:

- **Bad Market rate** : Farmer has no freedom of pricing and freedom of access market rate. Farmer is not free to sale directly to a trader.
- **Time Consuming and waste of time** : Farmer has to go market to sale and buy agri needs.

1.2. Proposed System

The proposed system “**E-Agricultural market**” is mainly focused and provide platform for farmer to get best market price for their agriculture needs in less time and it should be more efficient. Result will be very precise and accurate and will be declared in very short span of time. The E-Agricultural market provides channel to sale and buy online. It saves farmer time as well as it allows farmer to sale and buy agriculture needs at right time and get best market rate and farmer no need to wait and go market for agriculture needs. Admin has the privilege to create, add, delete and modify the user, items, taluk and district. The “**E-Agricultural market**” is a web application which aims at providing services and channel to the farmer to sale and buys his agri needs.

Following are the various features of proposed system :

Performance : During past several years, there is a need for effective and user friendly online market for agri needs for farmer. So E-Agricultural market web based computerized system is undertaken which is very user friendly.

Efficiency : The basic need of this website is efficiency and simplicity. This website is efficient so that it can handle different entries according to the user’s choice and users can easily view these entries and at the same time he can also request for them.

Control : The complete control of the project is under the hands of authorized person i.e., Admin who has the password to access this project and illegal access is supposed to be dealt with. All control is under the administrator and the other members have the rights to just see the records and not to change any transaction or entry.

Security : Security is the main criteria for the purposed system. Since illegal access may corrupt the database. So security has been given importance in this project.

The “**E-Agricultural market**” is being Channel or platform to eliminate the old traditional practice of selling and buying of agri needs for farmer. Old traditional technology that has more time consuming for the farmer. “**E-Agricultural market**” mainly focused and provide online market platform for farmer on less time for buying and selling agri needs and it should be more efficient. Market rate will be very precise and accurate in very short span of time. Multiple E-Agricultural market vendor, franchise and center/outlet can login at the same time. The Super Admin can view and generate the statistical reports of each “**E-Agricultural market**” Franchise, Vendor and Center/Outlet individually. This E-Commerce application is an attempt to remove the old traditional market flaws for farmer. More specifically, this E-Commerce system is designed to allow farmer to sale and buy agri needs online any time.

1.3. Functional Requirements

There are three users and modules in this phase :

- Center module.
- Operator module.
- Franchise module.
- Administrator module.

The functionality of each module is as follows:

Center module : The E-Agricultural market Center will logon to the software and take his role. He can add and remove taluk and farmer. Center can post harvesting and agriculture produced. Center will play important roles for farmer. Center can check his registered farmer statistics previous as well as his details.

Operator module : E-Agricultural market operator keeps track of transaction between franchise, vendor and center. Operator will pass the true information between them. Administrator module: The administrator collects all the results and information. Admin have total control over software. Admin can create and reset user, password.

Admin :

- Can reset his/her account login password.
- Can login and select the module.
- Can view the statistics result.
- Can view performance report.
- Admin can create center id, vendor id and franchise id etc.

Operator :

- Can reset his/her account login password.
- Can add or pass true information.
- Can add or create a category of commodity.
- Can view statistics information.
- Can view performance reports of the center, franchise and vendor.
- Can view statistical report of center, franchise and vendor.

Center :

- Can do farmer registration in his area.
- Can view statistics information.
- Can generate the report of total sale, insurance, farmer registered.
- Can sale or buy farmer agriculture produced or agri needs.
- Can post harvesting.
- Can view stock information.
- Can do insurance.
- Can update information.
- Can do registration of local industries.
- Can do own profile setting.

2. LITERATURE SURVEY

Modern online marketing is basically helps the consumers needs more effectively with good product and services with best price and delivery. Internet is changing the way consumers shop for goods and services and has rapidly evolved into a global event. Rowely Jennifer, (1998) examined that internet is becoming a hotbed of advertising, shopping and commercial activity. Hsieh et al. (2013) stated that internet is influencing people's daily activities have gradually shifted from physical condition to virtual environment. The shopping and payment surroundings have also changed from physical store into online stores. Online market provides many advantages like agility, selectivity, individuality and interactivity. Li Na and Zang Ping (2002) examined that online market has become the third most popular internet activity. Suresh (2011) stated that online market becoming popular in India. India is now the world's third largest internet population.

The growth in the number of online marketer is greater than the growth in internet users, indicating that more internet users are becoming comfortable to shop online.

Online market has some advantages :

- Save the time of the consumers.
- They can purchase anytime and anywhere.
- They can compare the price, quality and product.
- They can track easily their product.
- They can use cash back policy.
- They can best market place and rate.

Online market has disadvantages :

- They can touch and fell of products when they want purchase.
- Some delivery time is so much late.
- Lack of personal attention by sellers and buyers and chance to fraud.
- Lack of quality.

The factors that affect the online market :

- Convenience
- Product selection
- Delivery mode

FICCI, (2012) stated that India's large number of middle class peoples, 300 million individuals want products through online. India is likely to have the second largest internet users in the world and the largest growth, with 330 million internet users in 2015. India is on the verge of an internet boom where users who access the internet only through mobile and tablet device will constitute around 70% of new users and 50% of the aggregate user base in 2015, leading to increasing demand. So most of consumers want to buy and sale product through online market or application. Online market play important role those want to avoid crowd and do not have time and better price. So consumers are more attracted towards online shopping or market.

3. SYSTEM DESIGN

3.1. Attributes Of Design Entities

Each process flow is treated as an entity. Each of these design entities includes an inherent data object, a related data form and a process flow design. Data object is a schematic design which describes the attributes of the object under development.

Data values are being fetched for individual sections in input form. This data is defined as a data table and it is done through the platform. Standard HTML input elements like text field, select option; radio button and check boxes are used to display the fetched values.

Attributes that are specific to each module are given as below :

Login authentication:

Type : Module.

Purpose : To login and assign the roles depending on the UID and password

Function : This module will allow access to the user if he/she gives proper password and UID and will create a session for him/her once the UID is authenticated.

Subordinates : User.

Dependencies : Company UID and password is required to login.

Interface : To access the other functionalities the user must login as Admin, Center, Operator, vendor and franchise.

Resources : Browser.

Processing : Once the user has entered the UID and password the system will authenticate with the database and allow him to access as a Admin, Center, Operator, vendor and franchise a session will be create for him/her.

Data : All the data is retrieved from the database.

Report /Statistics generation:

Type : Module.

Purpose : To view the statistics of farmer, franchise and vendor.

Function : This module will allow the Admin, center, vendor and franchise to view the statistics.

Subordinates : User.

Dependencies : Company UID and password is required to login.

Interface : Generates report by fetching data form database and shown in graphical form.

Resources : Browser.

Processing : Once the Admin, Center, Vendor and franchise login to E-Agricultural market has given the their own role and interface.

Data : All the data is retrieved from the database.

Farmer creation:

Type : Module.

Purpose : To select farmer and do registration of farmer.

Function : This module will allow the center to do farmer registration and create farmer ID and famer can do sale and buy process through E-Agricultural market center.

Subordinates : E-Agricultural market center/outlet.

Dependencies : Company UID and password is required to login.

Interface : Generates statistics by fetching data form database with it FID, Agri needs, category of commodity and duration. Farmer can post harvesting through center/outlet.

Resources: Browser.

Processing : Once the center login he/she will access the own role and interface from the database.

Data : All the data is retrieved from the database.

Sale your Produce:

Type : Module.

Purpose : To sale or buy the agri needs by E-Agricultural market Center.

Function : This module will allow the Center to buy the agriculture needs for farmer and farmer can sale their agri commodity thus providing them with UID and FID.

Subordinates : Center, Franchise and Vendor.

Dependencies : Company UID and password is required to login.

Interface : Center must select the product and add to cart and have to generate receipt and the agri commodity must fill the post harvesting form for the sale process.

Resources : Browser.

Processing : To sale and buy the E-Agricultural market center must fill in the post harvesting details of the commodity and provide him with a UID and password.

Data : All the data is fed to the database.

Insurance:

Type : Module.

Purpose : To do insurance for vehicles and life insurance.

Function : This module will allow the Center to do insurance and view the insurance details.

Subordinates : Farmers.

Dependencies : Company UID and password is required to login.

Interface : Insurance form or interface is shown to E-Agricultural market Center and Details of insurance such as types, insurer and sum assured and installment of insurance.

Resources : Browser.

Processing : Once the Center logged in can do insurance and data will be store into the database as soon as he presses the submit button.

Data : All the data is fed into the database.

Local Industries:

Type : Module.

Purpose : To add and create local industries details.

Function : This module will allow the Center to add and create local industries details, Admin and Operator can see only the local industries details.

Subordinates : User.

Dependencies : Company UID and password is required to login.

Interface : Local Industries Form displayed to the Center, center can see details of the local industries.

Resources : Browser.

Processing : Once the Center has given the details of local industries it will be stored into the database. When the center logged in he/she is able to view the local industries details.

Data : All the data is retrieved from the database.

4. CONCLUSION AND FUTURE WORK

The main objective of this application is to learn the Asp.Net. I was always curious to know how things work in Asp.Net. This led me to develop the web application for Development of Real Time Online Exam Portal. There is no online based Examination portal in the organization. Currently exams are conducted manually not so user friendly and do not solve all the problems of the user. So to overcome these problems thought of creating a web based online examination portal which would solve all the problems of the user and make it user friendly, so thought that the most challenging part in the application is how to design a user friendly interface and we need a server for the application and even database. This would reduce lot of work, time, and money and easily maintained. In addition the design part is to enhance the interaction that takes place between application and stake holders so it is interesting that motivate to focus on thinking how to smooth the interface.

In future, the project will be extended to adding of different sections or question papers to a single exam. Also, the student will be allowed to choose the sequence of attending the modules. Timing will be there for each module and navigating through the questions of same module will be possible but not to different modules.

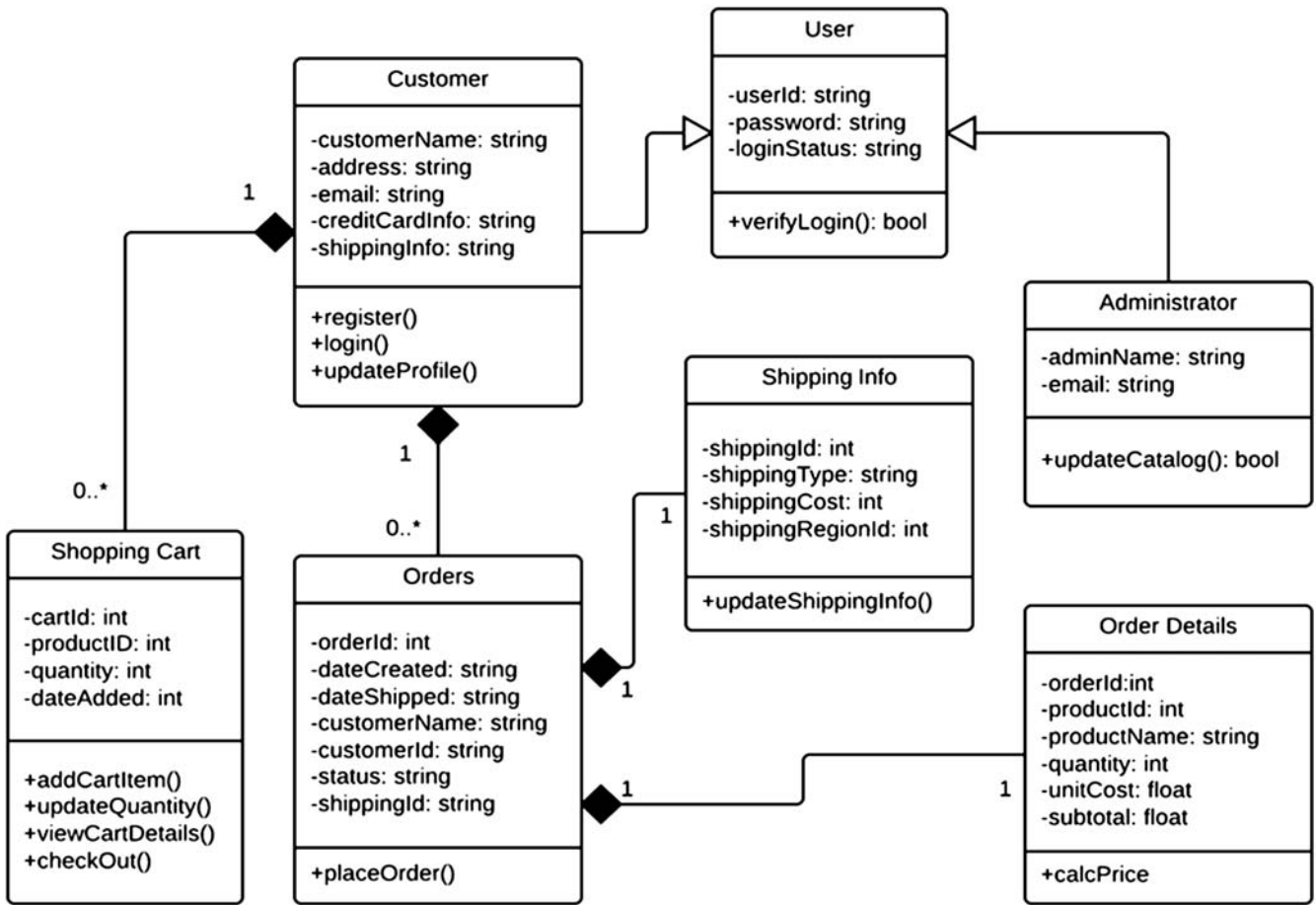


Figure 1

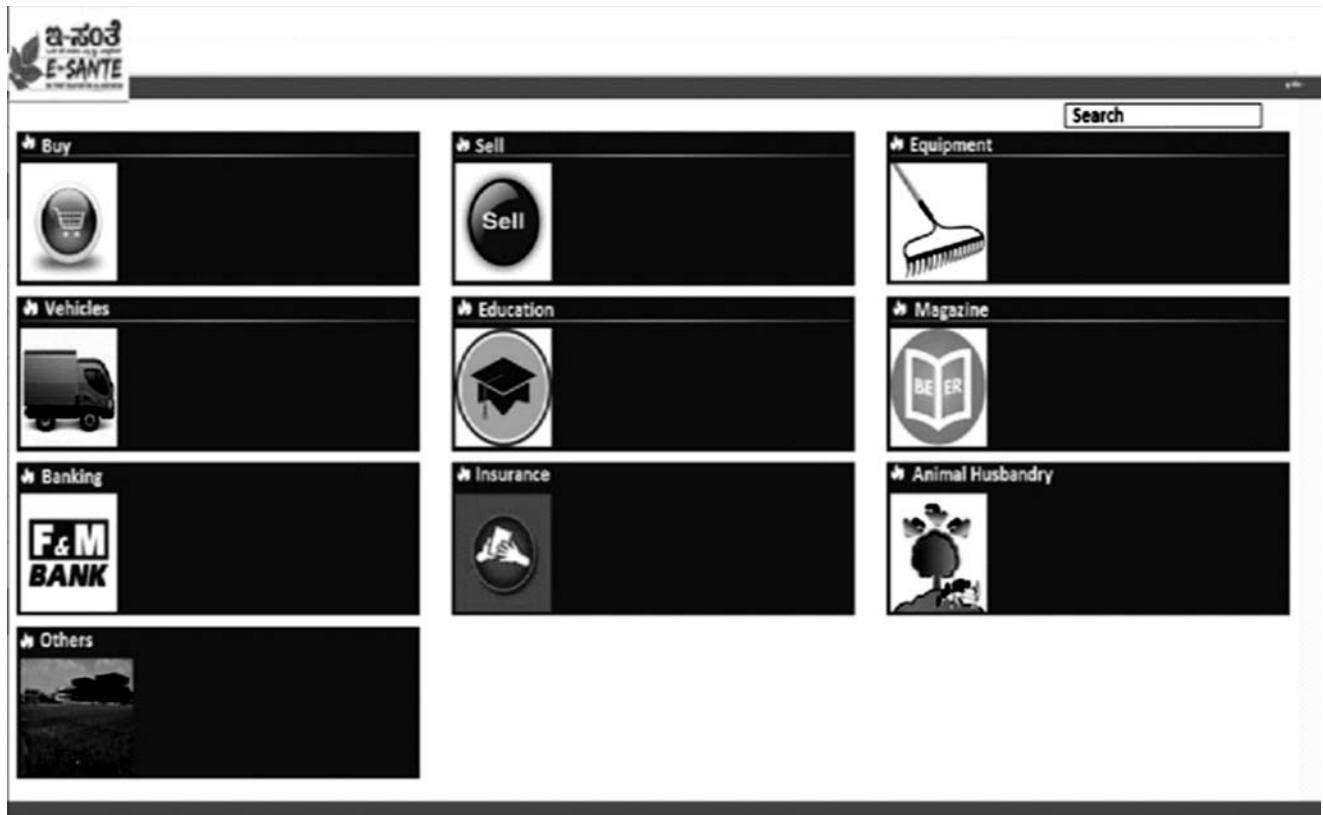


Figure 2

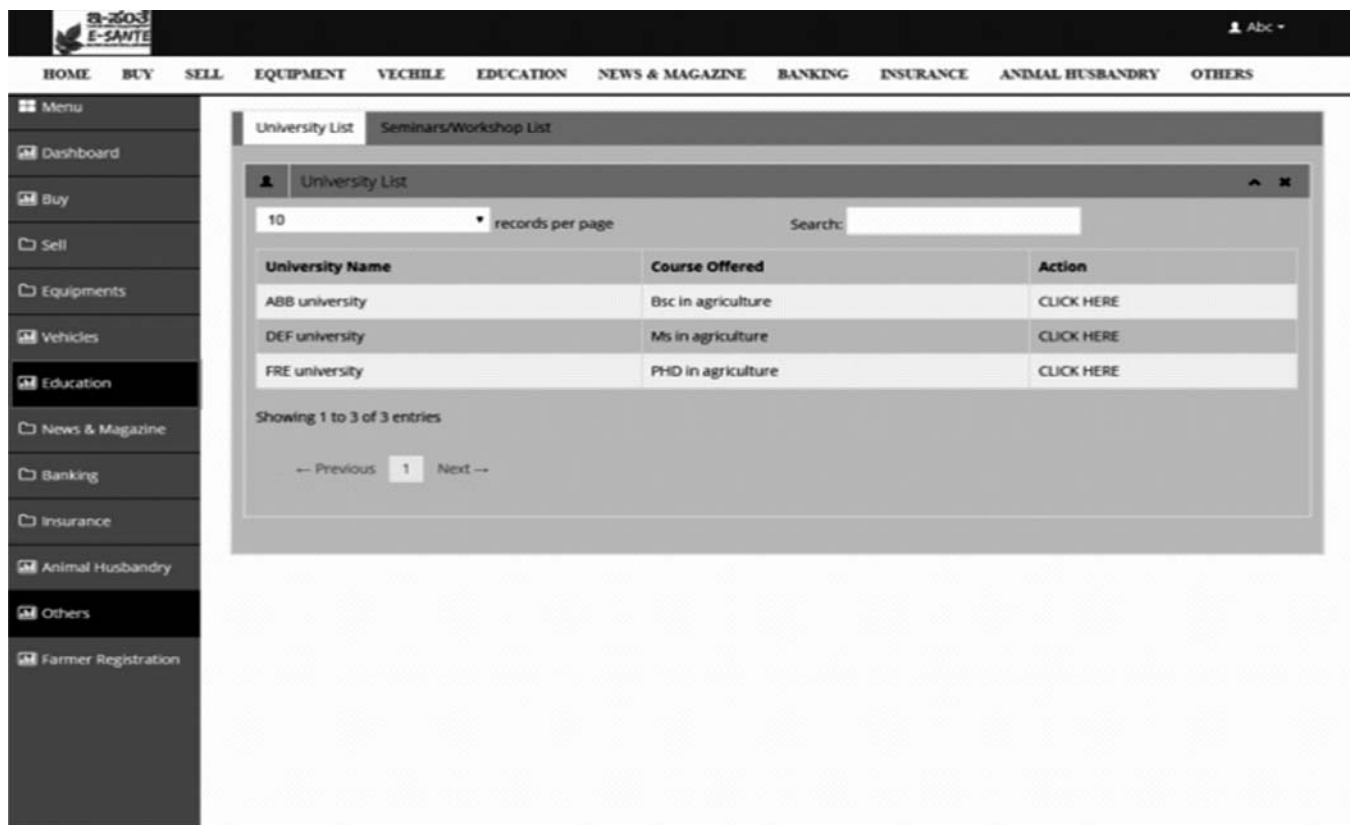


Figure 3

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