Title: Online agricultural Market &Information Providing System

(e-Farmers Market)

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Introduction

Purpose:

The Online Agricultural Marketing and information providing System to provide the online platform to the farmers to sale their crops and any other vegetables, solutions for vendors

As well as any other farming related customers through a single get way using the internet. It will enable vendors to setup online market prices of crops and get the products of farmers directly from farmers so that they

both(farmer &vendor)get direct benefits of that, transport company can gets benefits to by getting online orders of transport as per km price browse through the shop and purchase them online without having to visiting the shop physically.

Scope:

This system allows the customer's to maintain their product for sale or Buy the product over the internet.

Farmers will be able to manage their products Sale.

Definitions:

OSS --> Online Shopping System

SRS --> Software Requirement Specification

GUI---> Graphical User Interface

Portal--> Personalized Website

Stockholder--> The person who will participate in the System. And Owner of system

Ex. Customer, Administrator, Shopper

UML---> Software Engineering Notation for visualising System in the form diagrams

SSL---> Secure Socket Layer used for providing restricted access to application.

BOD---> Board of Directors (Management).

RDBMS --> Relational Database Management System.

CLUSTERS---> Group of independent servers.

Overview:

This System provides an easy solution to Farmers to sale the product (Crops) without going to the Market and also Vendor to buy the

Products (Crops) online.

Additional Information:

The system work on internet server, so it will be operated by any end user for the selling & buying purpose with secure platform.

This system protects the integrity of the Farmers and Vendors, provides easy transports and Payment policies.

General Description:

The Online Agricultural Market Application helps to manage the crops and any agricultural products of farmer's and also helps vendors to purchase.

The online Agricultural Market system will use the internet as the sole method for selling & buying the crops.

Functional Requirement:

This section provides requirement overview of the system. Various functional modules that can be implemented by

the system will be-

Description:

Registration if customer wants to buy or sale the crops then he/she must be registered, Unregistered user cannot get to Home Page of the site.

Login Customer logins to the system by entering valid user id and password for Buying or selling.

End Users which are logged in as a farmer can Browse Vendors and respective price chart and those customers who were log in as Vendors can browse the farmers list and request box, their whole information as well, he/ she can directly contact to Farmers via mobile number or via WhatsApp.

Payment for customer; there are many of secure billing will be by using payment gateway by debit or credit card,postpaid as after shipping or by check.

Logout after the payment of the product the customer will have two option either log out or go to Homepage.

Report Generation after all transaction the system can generate bill.

Then sent one copy to customer's mail and another one for the system database to calculate the monthly transaction.

The term client/server refers primarily to an architecture or logical division of responsibilities,

The client is the application (also known as the front-end), and the server is the RDBMS (also known as the back-end).

A client/server system is a distributed system in which, some sites are client sites and others are server sites.

All the data resides at the server sites.

All applications execute at the client sites.

Technical Issues:

This system will work on client-Server architecture. It will require an internet server.

The system should support some commonly used browser such as Chrome etc.

Interface Requirement various interfaces for the product could be:-

There will be a screen displaying information about Farmers and their Products and Vender and respective crops prices.

The customers may select the different options which will be open in another screen as

1. Login Page

2. Registration Form

3. Vendors Page (viewer is a Farmer)

Or Farmers or request page (viewer is vendor)

4. Crops category page

5. Transports company Details

6. Purchase or sale history

7. Account Settings

8. Payment Gateways

Hardware Interface:

The System must run over the internet,

All the hardware shall require to connect to internet will be hardware interface for the system.

E.g. modem, WAN, LAN

Specialized Server Infrastructure Hardware

The system should use distributed servers i.e. cloud for managing large amount of data so as to make it appear as single unit for end-user.

The system should have proper clusters for backup.

Software Interface:

The system is on server so it requires the any scripting language like JSP or PHP or java, ETC.

The system should be able to exchange data using XML, JASON or any advance technology.

The system require Database also for the store the any transaction of the system like MySQL or oracle, or SQL server etc.

System also require DNS (Domain Name space) for the naming on the internet.

http://www.farmerswb.com

At the end-user need web browser for interact with the system.

Performance Requirement:

There is no performance requirement in this system, because the server request and response to client is totally based on internet connection of end-user.

Design Constrains:

This system should be developed using Standard Web Page Development Tool, which conforms GUI standards such like HTML, XML, JSON, etc.

The system should support various RDMS and Cloud Technologies.

Non-Functional Requirements

1.Security:

SSL

The System use SSL (Secure Socket Layer) in all truncations that include any confidential customer information.

The system must automatically log out all customers after a period of inactivity.

The system should not leave any cookies on the customer's computer containing users' password.

The system's back-end servers shall only be accessible to authenticated administrators.

Sensitive data will be encrypted before being sent over insecure connections like internet.

The proper firewalls should be developed to avoid intrusions from the internal or external sources.

2. Reliability:

The system provides storage of all databases on redundant computers with automatic switchover.

The main pillar of reliability of the system is the backup of the database

Which is continuously maintained and update to reflect the most recent changes.

3: Availability:

The system should be available at all times meaning the user can access it using web browser,

Only restricted by the down time of the server on which the system runs.

In case of a of a hardware failure or database corruption, a replacement page will be shown.

Uptime: It mean 24 * 7 availability

100%----------

99.9%

99.999%

99.9999%

4: Maintainability:

A commercial database is used for maintaining the databae and application server takes care of the site.

The maintainability can be done efficiently.

5.Portability:

The application is HTML and scripting language based (Javascript). So the end user part is fully portable and any system using

any web browser should be able to use the features of the system,including any hardware platform that is available

or will be available in the future.

An end-user is used this system on an OS;either it is Windows or Linux.

The System shall run on PC, Laptops and PDA.etc.

The technology should be transferable to different environments easily.

6.Accessibility:

Only registered users should be allowed to process the orders after authentications.

Only GUI access of the system should be permited to end users.

7.Policies:

The system should adhere to all the legal formalities of the particular countries.

The system should maintain security related to sensitive data.

8.Efficiency:

The system should provide good throughput and response to multiple users without burdening the system by using appropriate number of servers.

9.Safety:

Software should not harm ethical and environmental conditions of the end users machine.

10.Modulariy:

The system should have user friendly interface.

It should be easily updated,modified and reused.

Operational Scenario:

Farmers Interaction

vendor Interaction:

Trasnsport company Interaction:

BOD (Board Of Directors)

Preliminary Schedule:

1.Login

2.Manage customer database Browse

3.add or remove Crops from table

4. Manage customer database

5.update Crops category

6.approve/reject Profile creation

7.shipping order

8.Logout

9.payment

10.Visit Site

11.Create new account

12.View account details

13.Registration

14.Customer Support