ONLINE AGRICULTURE MANAGEMENT SYSTEM

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Abstract: Online Agriculture Management System is the web application which helps farmers by providing various kinds Agri related information and Agri services in the website. This website helps farmers by providing them a large online market to sell their produce. Customer can send purchase request and they can purchase product through website. Even farmers can hire laborer and they can be updated with the latest agricultural developments with articles and blogs module. Admin can post latest news and articles and he can sell agriculture machinery products in the website. Workers can upload their resume and they can view work schedules after the login**.**

Keywords: [Agriculture, Products, Sales.etc]

I. INTRODUCTION

To provide technology and services to the farmers, sellers and farm laborers thus, helping then to expand their business and provide them with a wider market. The objective is to develop a system through which a group of application which helps farmers by providing various kinds Agri related information and Agri services in the website through the website group want to help their members collaborate, to plan, assesses and implement different activities and learn with others

II. Existing System

The Existing System is a time consuming process to find the information about the different fields. It is difficult to communicate with the regarding sectors and specifically for computer lab consumption based area, even then the students suffer a lot to identify where to get an area of exact information and so.

After analyzing the system studies, this existing system are has some features and drawbacks. But this project reduced the drawbacks and adds some salient features.

Drawbacks

- Poor living conditions and hygiene for livestock.
- Excessive use of agro-chemicals.
- Deforestation and alteration of the natural environment.
- Risks to human health.
- Higher risks of cancer and birth defects.
- The use of chemical hormones in food.
- Possibility of poor quality food products..

III. Proposed System:

The aim of the proposed system is overcomes the existing system. In this project it provides "better and efficient service to users. These online systems that can be operate from anywhere and anytime.

Advantages of the Proposed System

- The farmers can sell their productions online and the buyer can purchase various agricultural products online. Buyer can send purchase request to check the quality of the product.
- After collecting all the farm produce from the farmers, it should be sold to the wholesaler/retailer. This module covers these entries and the charge details also should be entered. The Payments will be received from the wholesaler/retailer once the product delivered to them.
- There are 4 types of users: Customer, Farmers, Workers, and Administrator. The login id and password must be required to login the system.
- The article and blog section helps farmers to improve their productivity and profitability.
- Administrator can view and print all kinds of reports.

IV: Steps for Project Development

Step1: Agriculture Management System
Step2: To Take User Requirement
Step3: New User Register
Step4: To Login to User Page
Step5: To Design Master Page
Step6: To Design the Web Forms
Step7: To Apply the Test Cases
Step8: To Apply the Validation to web forms
Step9: To Store the records in Database

V. Methodology used for developing project
Waterfall Model:
Waterfall model is an example of a Sequential model. In this model, the software development activity is divided into different phases and each phase consists of series of tasks and has different objectives. Waterfall model is the pioneer of the SDLC processes
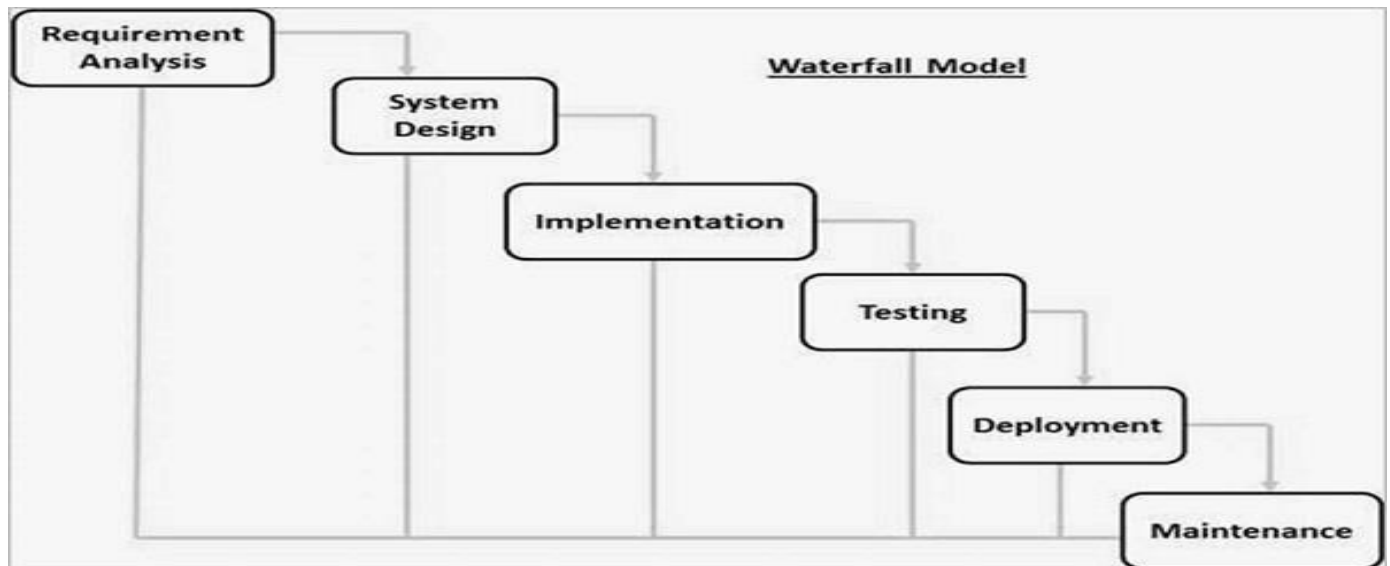

Fig: Waterfall Model

To build this web based application the waterfall model is used. The waterfall model is the simplest model by using this we can develop the small-small or mini software engineering projects. It makes the development of such projects will some earlier. It means that the developer will take less time to build this application. The waterfall model consists of only few stages which are requirements, analysis, coding, testing and the implementation.

Advantages of waterfall model:
- Simple and easy to understand and use
- Easy to manage due to the rigidity of the model. Each phase has specific deliverables and a review process.
- Phases are processed and completed one at a time.
- Works well for smaller projects where requirements are very well understood.
- Clearly defined stages.
- Well understood milestones.

VII. Front End for Design:
About Microsoft .NET Framework
ASP.NET is an open-source server-side web application framework designed for web development to produce dynamic web pages. It was developed by Microsoft to allow programmers to build dynamic web sites, web applications and web services.

The .NET Framework is a new computing platform that simplifies application development in the highly distributed environment of the Internet. The Microsoft .NET Framework is a software technology that is available with several Microsoft Windows operating systems. It includes a large library of pre-coded solutions to common programming problems and a virtual machine that manages the execution of programs written specifically for the framework.

ASP.NET is a programming framework built on the common language runtime that can be used on a server to build powerful Web applications. ASP.NET offers several important advantages over previous Web development models

- Enhanced Performance
- World-Class Tool Support
- Power and Flexibility
- Simplicity
- Manageability
- Scalability and Availability

The ASP.NET Web Forms page framework is a scalable common language runtime programming model that can be used on the server to dynamically generate Web pages. Intended as a logical evolution of ASP (ASP.NET provides syntax compatibility with existing pages), the ASP.NET Web Forms framework has been specifically designed to address a number of key deficiencies in the previous model.

VIII. C# (Sharp) for coding:

C# is intended to be a simple, modern, general-purpose, object-oriented programming language. C# (pronounced C Sharp) is a multi-paradigm programming language that encompasses functional, imperative, generic, object oriented, and component oriented programming disciplines. It was developed by Microsoft as part of the .NET initiative and later approved as a standard by ECMA and ISO. C# is one of the 44 programming languages supported by the .NET framework's Common Language Runtime.

C# is an elegant and type-safe object-oriented language that enables developers to build a variety of secure and robust applications that run on the .NET Framework. You can use C# to create traditional Windows client applications, XML Web services, distributed components, client-server applications, database applications, and much, much more. Visual C# provides an advanced code editor, convenient user interface designers, integrated debugger, and many other tools to make it easier to develop applications.

IX. Back End:
SQL SERVER -2008 R2

A database management, or DBMS, gives the user access to their data and helps them transform the data into information. Such database management systems include dBase, paradox, IMS, SQL Server and SQL Server.   These systems allow users to create, update and extract information from their database.

 A database is a structured collection of data. Data refers to the characteristics of people, things and events. SQL Server stores each data item in its own fields. In SQL Server, the fields relating to a particular person, thing or event are bundled together to form a single complete unit of data, called a record (it can also be referred to as raw or an occurrence).

 Each record is made up of a number of fields. No two fields in a record can have the same field name. During an SQL Server Database design project, the analysis of your business needs identifies all the fields or attributes of interest.   If your business needs change over time, you define any additional fields or change the definition of existing fields.

X. System Requirement Specification

• Hardware Requirement Specification:

Processor   : Quad core and above
Main Memory   : 2 RAM
Hard Disk Drive   : 1TB
Monitor   : 15 inch Color Monitor Keyboard
Mouse   : Optical Mouse

• Software Requirement Specification:

Operating System   : Windows 7 and Above
Technology   : Visual Studio 2010
Front End   : C# and Asp.net
Back-End   : SQL Server 2008R2

XI. Project Modules
1. Admin Module
2. User Register Module
3. Agriculture Module
4. Products Module
5. Feedback Module

XII. Output Screens
1. Admin Login Page

2. **Register Page**

3. **Feedback Page**

CONCLUSION

Online Agriculture Management System is the web application which helps farmers by providing various kinds Agri related information and Agri services in the website. This website helps farmers by providing them a large online market to sell their produce. Customer can send purchase request and they can purchase product through website.

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