Programming Hero

Web Development

Website: https://web.programming-hero.com/

Project Proposal
On
Agriculture Management System

Title: Agriculture Web Services

Date of Submission: 09-01-2023

Submitted By

Team: Error-4O4

Supervised By

Job Placement Team
Programming Hero

1. Introduction

Agriculture Web Services is to help farmers by providing all kinds of agriculture related information in the website. Agriculture Web Services is farmer management website application which helps farmers to give best-practice farming processes. It helps farmers to improve their productivity and profitability. It enables farmers to sell their productions through online and farmers can purchase tools and seeds directly from seller. Farmers can view labors profile and they can hire labors.

The name Agriculture Web Services indicates Intelligent Agriculture. Agriculture Web Services 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. This enables wholesalers and retailers to expand their business.

2. Motivation:

Agriculture is an information intensive industry. This project deals with the marketing process of agro products of Bangladesh where the farmers live in the rural areas and they struggle to earn their living in spite of their dawn to dusk hard work. After the harvest, the limited access to the market information, the undeveloped transportation system, political insecurity, middle man, financial instability and the lack of courage to take risks makes it difficult for the farmers to ensure the delivery of the produce to the markets. The lack of knowledge and scope of storage of products, also create disadvantages to the farmers. It puts them in a situation where the farmers found no option but to sell the products to the middlemen who have better access to the distribution facility at a very lower price. Hence, this project aims to ensure fair price to the farming community by devising new techniques and by making use of online market. I will take up this project to motivate farmers to produce and buyers to buy fresh produce. To easily introduce the modern agricultural system and the peasantry and to improve the agricultural system.

3. Background Analysis:

Civilization started with agriculture which, to this day, remains very important and plays a significant role in our lives. And while its significance may be even more pronounced in some countries than others, the reality is that every country depends on agriculture to sustain itself in one way or another.

It is possible to double the profit through cultivation using modern agricultural machinery. Everything from cultivating land, sowing seeds, weeding, fertilizing, cutting, threshing, threshing and sack packing can be done with modern agricultural machinery. This method also reduces crop wastage through cultivation. As a result, it is possible to get more crop yield at home than the traditional method of cultivation.

But the farmers cannot use the modern equipment required for mass cultivation. Because many farmers do not know how to operate them or are not aware of these parts.

Agricultural Web Services, through which farmers can easily learn about modern agricultural machinery and purchase or rent them.

Farmers cannot harvest at the right time due to lack of public labor. So they do not get the right price for the crop.

Through agricultural web services, Farmers can view labors profile and they can hire labors.

4. Objective of the Project:

The specific objectives of the project include:

- ❖ To provide qualitative foods to the buyers.
- ❖ Implementing an automated/online agro culture system.
- ❖ To inspire farmer to produce quality goods and supply to the buyers.
- ❖ Eco-friendly farming system.

5. Overview:

3.1 Significance of the Project:

It is focused on studying the existing system of agro culture in and to make sure that the peoples are getting quality fresh goods. This is also will produce:

- Less effort and less labor intensive, as the primary cost and focus primary on creating, managing, and running a secure quality food supply.
- Increasing number of buyers as individuals will find it easier and more convenient to buy goods.
- Easy management.

3.2 Materials and methods:

- Tools:
    - VS Code

Technology:

Font-End:

- Language Used:
    - HTML
    - JavaScript
- Design :
    - CSS
    - Tailwind CSS
    - JAVASCRIPT
    - Next JS

Back-End:

- **Library:** Node JS, Express JS
- Database :
  - MongoDB

6. Diagrammatic Representation:

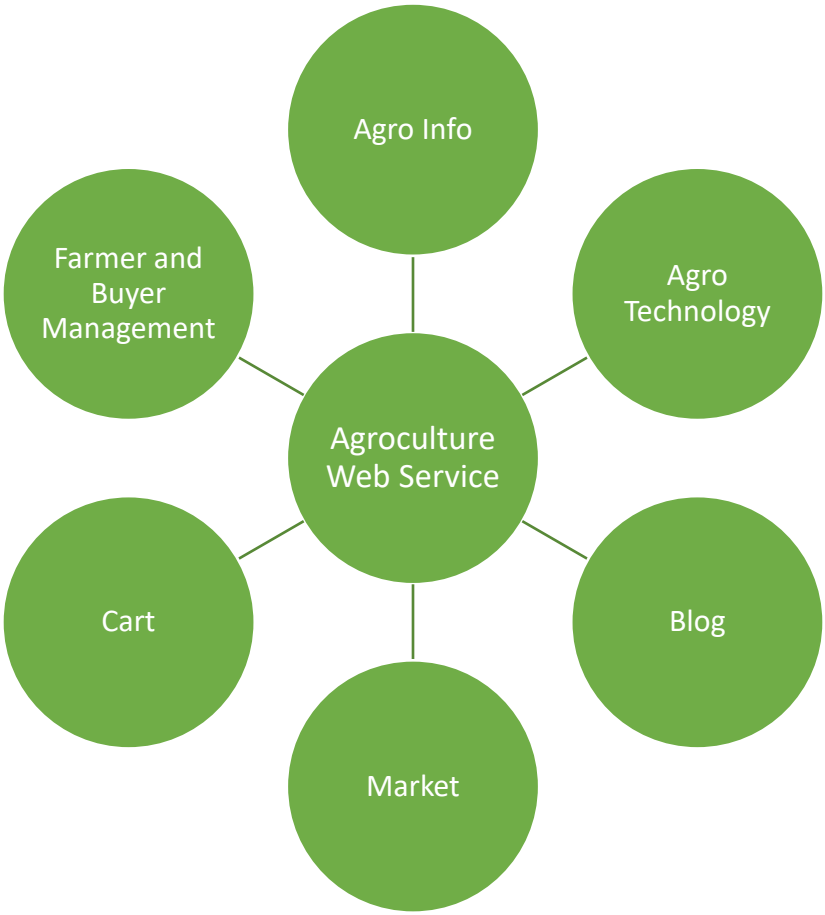

Figure: Diagrammatic Representation Agriculture Web Services

7. Project work plan/Time Frame:

Stage	Objectives/Goals	Approximate Deadline
Phase One	Discovery and Planning	10.01.2023
Phase Two	Design	15.01.2023
Phase Three	Content Writing and Assembly	20.01.2023
Phase Four	Development and Programming	15.02.2023
Phase Five	Testing	20.02.2023
Phase Six	Implementation	25.02.2023
Phase seven	Site launch	28.02.2023

8. SUMMARY:

Agriculture Web Services will make better connection among Farmers and Buyers ensure quality food. Standardize and increase efficiency of agro culture process. It inspires farmer to produce and buyers to consume fresh goods.

9. RECOMMENDATION:

Based on the results of the findings gathered, We would like to recommend the following:

This system Reduce cost on the farm, savings in time, human labor and machinery. Increasing number of buyers as individuals will find it easier and more convenient to buy goods.

10. References:

https://www.freestudentprojects.com/studentprojectreport/projectreport/agriculture-management-system-project/

https://www.upanup.com/news/website-timeline-plan-success