Sri Lanka Institute of Advanced Technological Education

(SLIATE)

Project Proposal(invidual)

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(Software Track)

Title

Farm Management System

Supervised by

Mr.k. Thevaruban

MIF.Farwin

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1.Abstract

Agricultural production management is entering into a new era where every day farmer's decisions are supported by highly sophisticated Farm Management Information Systems (FMISs). The latter have evolved from simple record keeping software into complex systems that can manipulate large amounts of data and provide decision support capabilities. In this paper, the development of an FMIS, which utilizes new technologies, such as those which were introduced by the European initiative Future Internet Public-Private Partnership Program (FI-PPP), is described. The developed application is focused upon individual farmers or farmer cooperatives, who wish to perform precision agriculture via the usage of mobile devices and modern technology. The main focus is to perform farm financial analysis based on all farm transactions but also estimating profitability based upon fixed values that the farmer imports.

2.Introduction

Agriculture farm management information system(AFMIS)in agriculture have evolved from simple farm recordkeeping into sophisticated and complex system to support.production management and meet the increased demands to reduce.production costs,comply with agricultural standards,and maintain high product quality and safty.

Agriculture Management System is to help farmers by providing all kinds agriculture related information in the website. Agriculture Management System 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.

3.Background and Motivation

Lanka is dominated by scattered small holdings, i.e. average size of a holding is below 1.0 hectare resulting problems of diseconomies of scale and difficulty of mechanization in the face of Sri Lanka has a diverse natural resource base on which the country heavily relies upon to reduce rural poverty

and ensure food security. Agriculture, including fisheries, is a major contributor to economic growth, the only source that provides adequate food to prevent hunger and starvation, and has continued to play a pivotal role in the Sri Lankan economy, providing employment to 28.5 percent of the labor force as of 2014. The shares of the agriculture sector are around 9.9% of the GDP and 25% of export earnings in the year 2014. About 32.8% of the rural population of the country are employed in agriculture for their livelihood, although around 70 percent of the country's population live in the rural areas and are indirectly affected by the sector.

Growth, the only source that provides adequate food to prevent hunger and starvation, and has. About 32.8% of the rural population of the country are employed in agriculture for their livelihood, although around 70 percent of the country's population live in the rural areas and are indirectly affected by the sector. Sri Lankan agriculture largely comprises a food crop sector and a plantation (tea, rubber and coconut) sector. Agricultural productivity of the food crop sector had been stagnated over the last two decades. Farming in Sri of labor to industry and service sectors), low productivity coupled with low level of using modern technology in proper way due to lack of capital as well as not owning machinery which is not economical due to small farm size, and marketing problems also are major constraints. Another serious disadvantage faced by the farmers in the country is the heavy dependence on rain-fed agriculture (only 39% of the arable land is under irrigation).

In this context, the enhancing productivity and competitiveness of the food crops has become the major challenge in increasing food production in a sustainable manner and improving farm family income in order to ensure household food and nutritional security, and agriculture export earnings while at the same time conserving the natural resource base. Diversification and modernization of agriculture by introducing innovative technologies and linking to the value chain through back ward and forward linkages (agro based industries) can boost productivity and also help to generate farm employment, offfarm employment opportunities, and increase export earning and save forging exchange.

3.1 Why we selected This Topic?

Proper management of farmland is vital for an investor to capitalize on the overall appreciation of the asset.Farming today is more than just producing crops,it requires farmer and landowners to address profitability,fertility,conservation,and tax issues to name just a few.

Farm management is one of the most important resources in operating farm.farm management determines how the farm-life will be organized,resources allocated and activities performed.it deals with various strategies and methods to keep a farm productive,sustainable,resistant and profitable.

4. Problem in Brief

- Resource depletion: The costs of industrial agriculture.

- Land management :Degrading and undervaluing farmland.

- Food waste: Compromising food security.

- Demographic changes: A disconnected public.

- Political issues: The business of food

5.Aims and objectives

To support small-holder farmers to produce competitive and marketable commodities, improve their ability to respond to market requirements, and move towards increased commercialization.

5.1 Aims

Developing Agriculture Farm management system for selected Agro Farm.

5.2 Objectives

- Developind Agriculture Management System is to help farmers in forming process.
- The farmers can sell their products through online and the customer can buy that product.
- Labour can update their details and farmers can view labors profile and they can hire labour.
- The article and blogs sections helps farmers to improve their productivity and profitability.

6. Proposed Solution

The proposed solution of the Agriculture farm management system is to develop a computerized

farm management system. Before developing the proposed system, there is need to identify;

a) The design of the proposed system

b) The main users of the Agriculture farm management system

c) The activities of the main users.

6.1 The Design

The proposed system will be designed using PHP,CSS,Bootstrapt,and java script using server is XAMPP.

6.2 The main users

The main users of the proposed system are the Dealer, customer and Admin

6.3 Their activities
The activities of the main users of the proposed system are listed in table below

Activities of customer and Dealer	Activities of Admin
- Search the details - View details - Update their details	Add/Delete customer,dealer Maintain Accounts View sales details Add /Delete seeding,nurseling,seed

7. Resource Requirements

The proposed system will be developing using Visual studio.

7.1 Hardware Requirements

- PC or Laptop with Minimum Core 2 Duo Processor.
- Minimum 1Gb space in Hard Disk.
- Minimum 1Gb Ram

6.2 Software Requirements

- Operation System : Windows 7 or Above
- Language : PHP
- Graphical user interface : Bootstrap
- DMS : SQL

8. References

Agro farm Marketting

https://www.studentprojectguid.com/php/adriculture-management-system

[Accessed 01 feb 2020]

https://farm-management-system