

BSc (Hons) in Business Information Systems

(Batch 009)

Project and Professionalism

6CS007

Project Proposal (Brief-report)

Course Supervisor: Ms. Suranji Nadeeshani

CINEC Tutor: Mr.Thilak De Silva

Submission date: 29th November 2020

Ishan Vithanage (UoW ID- 1915978)

University email: [i.p.vithanage@wlv.uk](mailto:i.p.vithanage@wlv.uk)

Table of Contents

[Section 02 - STATEMENT OF PROJECT DETAILS 3](#_Toc57584120)

[Project Title: 3](#_Toc57584121)

[Academic Question: 3](#_Toc57584122)

[Artefact (proposed) to be developed: 3](#_Toc57584123)

[Aim of the Project: 4](#_Toc57584124)

[Project Objectives: 4](#_Toc57584125)

[Project Objectives: 4](#_Toc57584126)

[Section 3: PROJECT PROPOSAL 5](#_Toc57584127)

[Introduction 5](#_Toc57584128)

[Initial Research into sources of information 7](#_Toc57584129)

[Artefact 8](#_Toc57584130)

[Plan/Schedule 10](#_Toc57584131)

[References 11](#_Toc57584132)

# Section 02 - STATEMENT OF PROJECT DETAILS

## Project Title:

“**Cultivation Analysis and Management System**”

## Academic Question:

What are the main challenges involved to come up with this project?

There will be many challenges in developing this project. A very range of research is required to implement this project. I will also need to meet with the people involved in the project to analyze and verify the data obtained from it. Then the correct data should be analyzed and the information system created. This information system should be able to handle a large amount of information. I need to create a website and mobile application to access the system users. In addition, Agrarian service officers in the area should be given separate access to the system for the analysis of user information. Since all administration of the system is done by the government, the system should be prepared for that. So creating this software, website and system is a challenge.

## Artefact (proposed) to be developed:

The main problem in Sri Lankan through the creation of this system is to control the fall in the selling price of the crop. Here, information on the crops expected to be cultivated by the farmers is obtained and information on future conditions is provided. Farmers’ information certification is done through agriculture officers. The government can also provide fertilizer and subsidies to farmers through the system. Another key feature is the ability to sell the crop and contact buyers through the system.

## Aim of the Project:

To manage agricultural information for the government, to provide farmers with information about the sale of their produce at the time of cultivation and to establish a relationship between buyers.

## Project Objectives:

Implement a mobile application, Website and System that provides personalized information in a convenient way for all farmers, buyers and government

## Project Objectives:

* Develop preliminary research assessment and gap identification
* Analysis of the cultivated food requirements of the country.
* Farmers are able to understand whether their cultivation is valuable in the market when they sale in the future.
* Process of cultivation needs are integrated to a well-mannered structure
* Buying and selling among farmers and the retailers can be done through the application
* Collection data and performance analysis
* Design interface/ database / software/Website
* Develop and conduct an initial testing
* Final testing
* Implement the project/ system.

# Section 3: PROJECT PROPOSAL

## Introduction

This project will enable farmers, agricultural officer and government related management in Sri Lanka. The website also provides an opportunity for transactions between sellers and farmers. The project includes mobile-phone software, a website and an information system. Below are all the functions and facilities included in this project.

Farmers access to the system and access information

Farmers living in Sri Lankan must first register for this system. This can be done using mobile phone application or website. The facility to register for the system can be registered through the agriculture officer of the area. Once the farmer enters the system, he/ she is given all the information about the crop he / she hopes to cultivate and then the information about the forthcoming harvest in the market. It also provides information on price changes

Manipulation and verification of information

Agriculture officials have the ability to check user data and incorporate it into the information system to increase the accuracy of the project. The information of the farmers belonging to their area and the information about their cultivations should be entered in the system and the data entered should be checked and verified. User accounts are also created by I officials. To do this, they create a separate user interface.

Purchases and sales

Another important feature of this project is that it enables farmers to sell their produce and buy crops for the crop through a third party.

Management of agricultural activities carried out by the government.

A documented system is currently in operation in Sri Lanka. Through this system, the fertilizer subsidy provided by the government can easily provide crop damage. For example, all the data needed to provide crop damage in the event of flood in one area is in the system. At the

Show the future Details

When farmers provide information to the system, they only pay in advance for the future harvest of their crop, whether it will make a good profit from growing that crop.

Through this project, the farmers, agricultural officers, buyers and the government who use it are included in one system. This will eliminate the need for frequently filed and registered services. Same time, the government is able to take the necessary steps to control the fall in the sale of harvest, a major problem in Sri Lanka.

Creating this project creates a separate interface for uses, another interface for data seekers and a website for customer. Its accuracy is very high as it checks the data entered by the users. It is also important to provide training to agricultural officers on how to implement this system.

# Initial Research into sources of information

The project is being developed to make the Sri Lankan farmers much easier for government, Agriculture officials and buyers. And it provides solutions to some common problems as mentioned in the introductory section above.

Before considering of creating a project it is basic to discover out in case comparative tasks/projects have taken put some time recently in the event that so, it is necessary to discover out all the actualities or features that are included in those and recognize the issues and give arrangements to those. Agreeing to my project, I came over many comparative applications that have been actualized in colleges in other nations before, but this kind of application is still modern to Sri Lanka.

Research is needed to implement this project. For this purpose, several sources including agricultural information.

* Cultivation Planning Application to Enhance Decision Making among Sri Lankan Farmers,
* Indigenous Agricultural Systems in the Dry Zone of Sri Lanka: Management Transformation Assessment and Sustainability

Here we were able to gain an understanding of how the information was obtained

(Nuwan Abeywardana, 2020) (Director General of Agriculture, 2020)

Admincontrol.com this site allows you to access design information, such as authorizing user requirements within the system. (control, 2020)

“ikman.lk” - this application is also a popular application that found in Sri Lanka. It has features like, user can buy items, items selling, and buyers’ details.

All necessary steps have been taken to build this project using the above mentioned sources. Also, steps have been taken to include the information obtained through the agriculture officers in the system and to provide accurate information. My project that I am going to develop is not only focused on the Farmers but also it focuses on buyers and government ad well.

# Artefact

The project consists of developing a mobile application and a web application and system for users, buyers and administrators at Government. So basically, I am going to develop an application and website with different user types (for farmers and offices) and UI variations according to the user type.

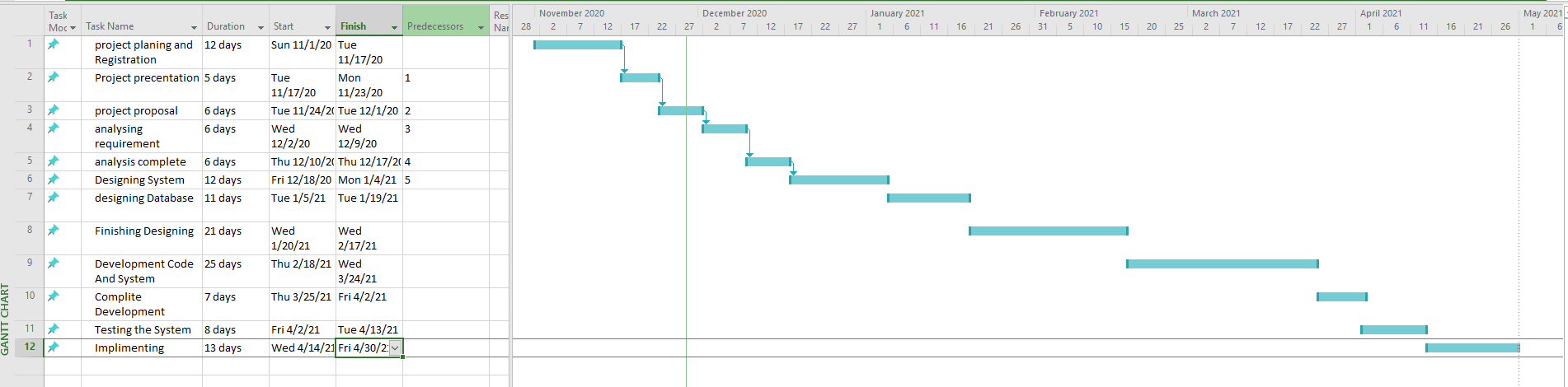
There will be many challenges to overcome in implementing the venture. Both applications (mobile application and web application) must cover all ease of use and availability angles associated with the particular audience. Creating an application in a clear and a basic way, counting all its functionalities, will be challenging. In specific, a mobile application and a web application got to be basic and clear to require advantages of it. The mobile-phone software and website presented to farmers in this project should be very simple. Also the user language should be the language used on a daily basis. The design should be very simple so that they can understand. It should be designed to be easy to enter information with pictorial warnings. And this software and website should run in very good condition on all their available devices. The software must also be functional so as not to cause problems. . The application should be free of malware issues and should focus on the high security side as it includes user’s information and all. These are some common challenges that appear in developing applications. Every developer needs to be aware of the technical knowledge required to find out solutions to all of these potential challenges. In this manner, to come up with the venture effectively got to go alongside program life cycle development. To begin with, of all, it is essential to recognize the framework for advancement, possibility evaluation and Inquire about at that point making a venture arrange. And after that, it is necessary to accumulate all the requirements to satisfy all the capacities of the application amid the examination phase. And after that ought to go forward with the plan express by planning a database, interfacing and software and site. After the plan ought to have to work up with the advancement process. As before long as the improvement handle is total, consideration ought to be paid for checking that all the created works are working legitimately (testing). And amid the ultimate arrange, the extension can be actualized effectively. Sometime recently entering the arranging stage, the center ought to be on holding an open-ended survey with a few of the lecturers at Cinec campus to urge an idea of what they are up to about the project and their criticism on the project. The various software used to create this project are descried below.

The application should run Android, ios devices therefor I have to use Flutter framework to build the application (Luís, 2020), and CSS, JS, HTML, PHP to develop the website (Tuition, 2020). And also react for developing the framework of the web application and Visual studio and JavaScript are using for developing the web application. And I have to host my site in database. I can use firebase, PHP MYSQL, SQL Language to build database. Buying and selling facility in the website therefor I have to use bootstrap. (Khan, 2020)

Functional and non-functional testing, unit testing, security testing, system testing, integration testing, performance testing, usability testing are the testing methods which are planned to be focused during the project period.

# Plan/Schedule

The following is the timeline designed for the project submission. All tasks that are listed below in the Gantt chart represents staring from November 1st to April 30th.



# References

control, a. (2020, 10 20). *admincontrol*. Retrieved from Add users and system roles: https://help.admincontrol.com/hc/en-gb/articles/360020859151-Add-users-and-system-roles-

Director General of Agriculture, D. o. (2020, 10 15). *CROP DIVERSIFICATION IN SRI LANKA - S.S.B.D.G. Jayawardane\* and L. A. Weerasena\*\**. Retrieved from fao.org: http://www.fao.org/3/x6906e/x6906e0b.htm#TopOfPage

Khan, A. (2020, 11 01). *How to Connect MySQL Database with PHP Websites*. Retrieved from cloudways: https://www.cloudways.com/blog/connect-mysql-with-php/

Luís, E. (2020, 11 02). *Creating a Notes App for Web and Mobile using a local database*. Retrieved from flutter-community: https://medium.com/flutter-community/creating-a-notes-app-for-web-and-mobile-using-a-local-database-bde8627e6f72

Nuwan Abeywardana, T. W. (2020). *Indigenous Agricultural Systems in the Dry Zone of.* MDPI.

Tuition, D. (2020, 10 29). *Online Store E-commerce Responsive Website Using HTML/CSS*. Retrieved from youtube.com: https://www.youtube.com/watch?v=36jRXMsIFuA