



[B6S3]-ECS204: Programming Project & Competitions

Interim Project Report

Second Year - Batch 6

Agricultural Forum

Group A

Information and Communication Engineering

Sri Lanka Technological Campus

2020

Declaration

“We declare that this thesis is our own work and has not been submitted in any form for another degree or diploma at any university or other institution of tertiary education. Information derived from the published or unpublished work of others has been acknowledged in the text and a list of references is given.”

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Abstract

Cultivation is an important sector in Sri Lanka. In cultivation, lot of parties are involved in it. Such as Agricultural department, weather department, Water suppliers, third party, sellers, buyers, transport services, fertilizer weed killer and insecticide making companies, labors etc. with enrolment of these parties ,get the results of severe price fluctuations ,high post-harvest losses and high cost of business activities and finally low income for the farmer. It is very unfair for the farmer. we should minimize contribution of third party for this process. Within this application we will be able to find solution for this problem.

Chapter 1 – Introduction

Today there is a difficulty for the farmers to sell their harvest and also the haven't a place to discuss their problems. It is also difficult for farmers to know the market prices of crops. If a farmer wants a help a from a specialist in that field, they haven't a good platform for it.

This application is an online application that Farmers can share their information, farmers can get updates on daily market prices, Agricultural consultative can update their accounts with information about agriculture, and also farmers can discuss their problems with those consultative. To buy the harvest buyers can add their daily purchase prices, transport service owners also can add their information.

Chapter 2 – Solutions in general

Chapter 3 – Similar approaches

Top Apps Used in Sri Lanka

1.Govi Mithuru.

Govi Mithuru is an application that used in Sri Lanka for digital Farming. In this app Farmers can have information about pest and disease-management. This app provides emergency alerts related to ever-changing agricultural conditions, including pest attacks, incidence of disease and other risks, allowing early warnings and adequate time to respond.

2.Krushhi Advisor.

This application gives information to the user about field establishment with nursery management, fertilizer recommendation, water management, weed management, pest management, disease management, nutrient deficiency and physical disorders, harvesting and post harvesting and special crop management systems available for selected food crop by user. And also, there is a feature to give a mobile call to a mobile number if the user needs more clarifications.

2.Krushhi Advisor.

Govipala is an app that creating a digital market for the users.

When comparing those applications with our application, there are some more special features in our application. In our application, users can ask their questions from the specialists without giving a call, they can ask them through online forum. And also, there is a feature that the farmers can get the updates of the daily market price of the vegetables not only that but also farmers can sell there harvest easily through our application. Buyers also can easily find the farmers who wants to sell their harvest. we connect transport service owners also to this system so, farmers can transport their harvest easily through the app.

Chapter 4 – Technologies Adopted

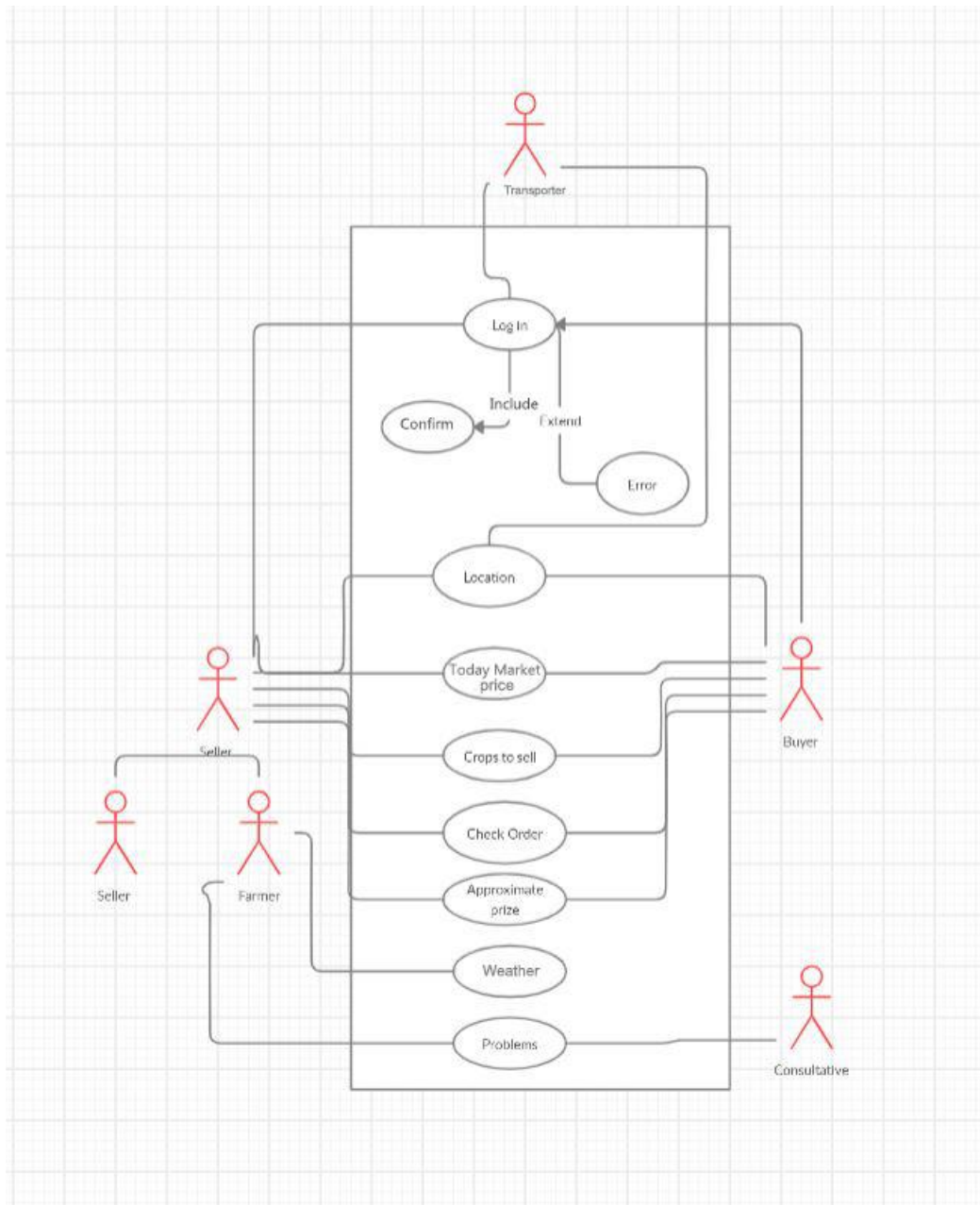
Chapter 5 - Analysis and Design

Chapter 6 - Reference

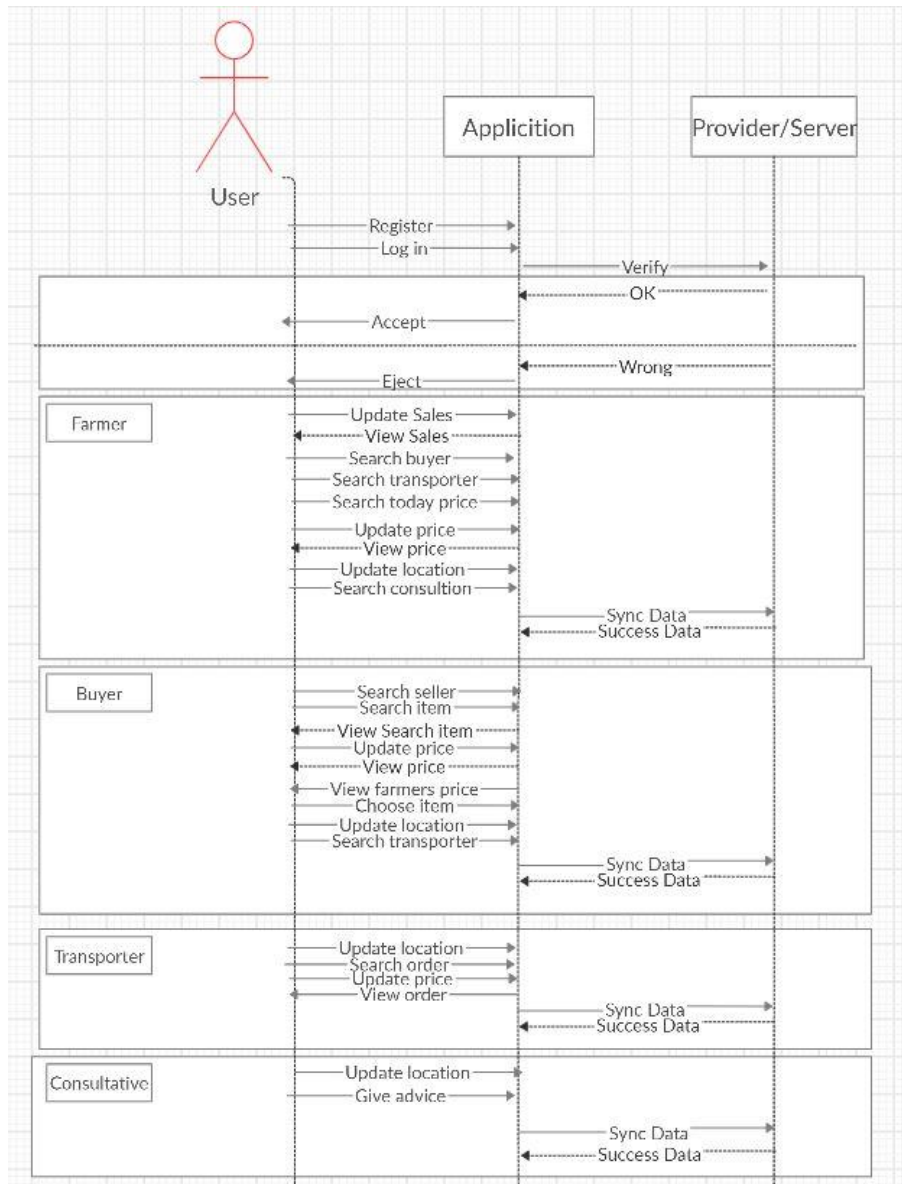
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Appendix A: Glossary

Appendix B: Diagrams



Use case Diagram



Sequence diagram