LIVESTOCK MANAGEMENT INFORMATION SYSTEM

PRESENTED BY :

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UNIVERISTI PUTRA MALAYSIA

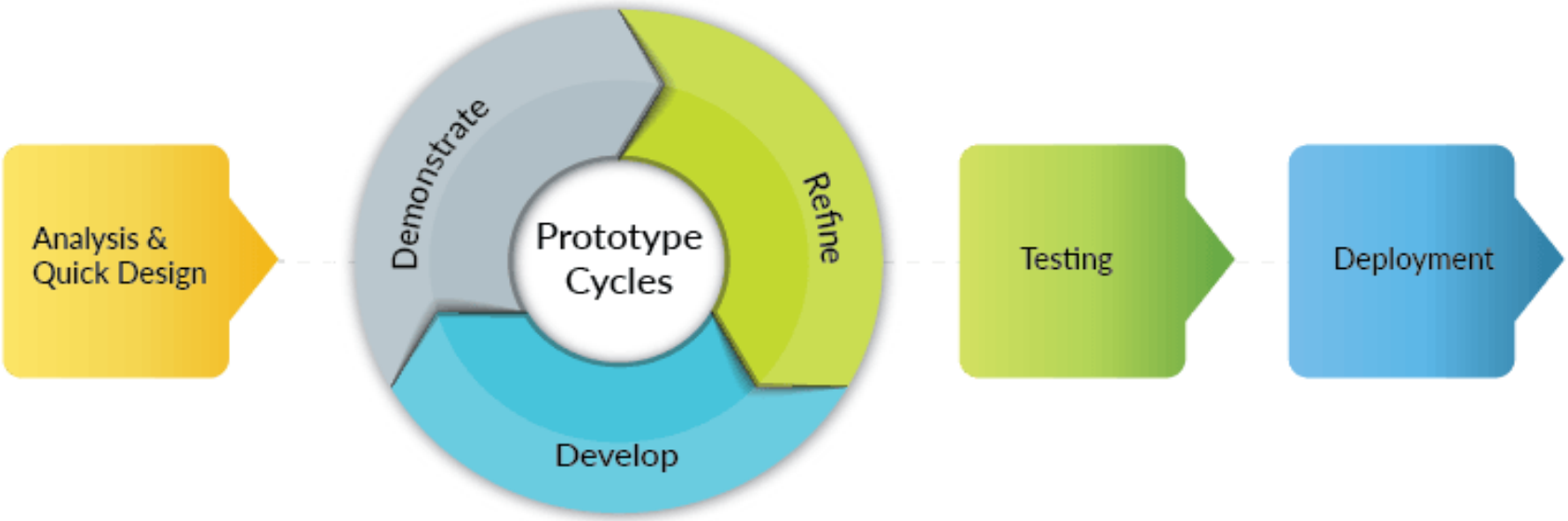
INTRODUCTION

- The livestock industry is one of the most important drivers of the agriculture industry in Malaysia. It provides food in the form of useful protein to the population.

- The Livestock Management Information System (Livestock MIS) aims to increase the efficiency of livestock farming.

METHODOLOGY

RAPID APPLICATION DEVELOPMENT (RAD)



INTERVIEW USER

AGRICULTURE STUDENT FROM UNIVERSITY PUTRA MALAYSIA

- Name of user : Nurul Syafiqa Binti Norsam
- Student currently in the 4th year of studying Bachelor in Agriculture Science (Animal Science) at University Putra Malaysia
- Involved directly in the management of livestock in the UPM farms as part of her academic education in the form of classes and field work.
- Provided the user requirements for the Livestock Management System

INFORMATION GATHERED

- Sample Data
- Feed Formulation
- Expected Meat Carcass Formula
- Requirements Gatherings & Confirmation

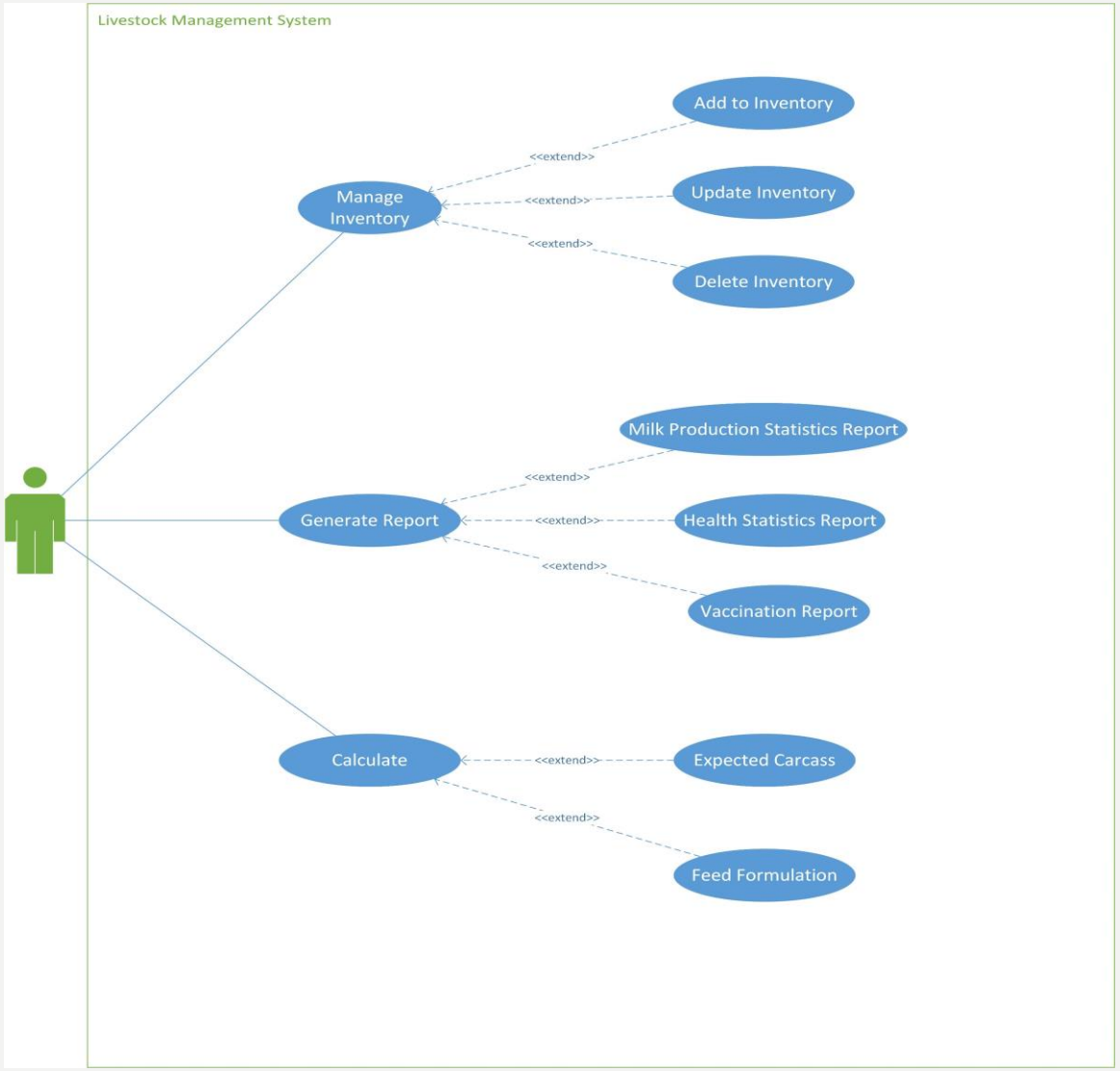
BACKGROUND STUDY

	Tambero.com	Farmwizard.co.uk	Cattlemax.com
Livestock Record	Yes	Yes	Yes
Produce report	Yes	Yes	Yes
Graphical Analysis	Yes	Yes	Yes
Weather forecast	Yes	No	No
Platform	Desktop with mobile version	Desktop with mobile version	Desktop and mobile application

FUNCTIONAL REQUIREMENTS

- Allow users to add, update, delete information regarding their livestock in the inventory.
- Allow users to produce a milk production statistics report.
- Allow users to produce a health statistics report.
- Allow users to produce a vaccination report.
- Allow users to calculate feed formulation for livestock.
- Allow users to calculate expected meat carcass.

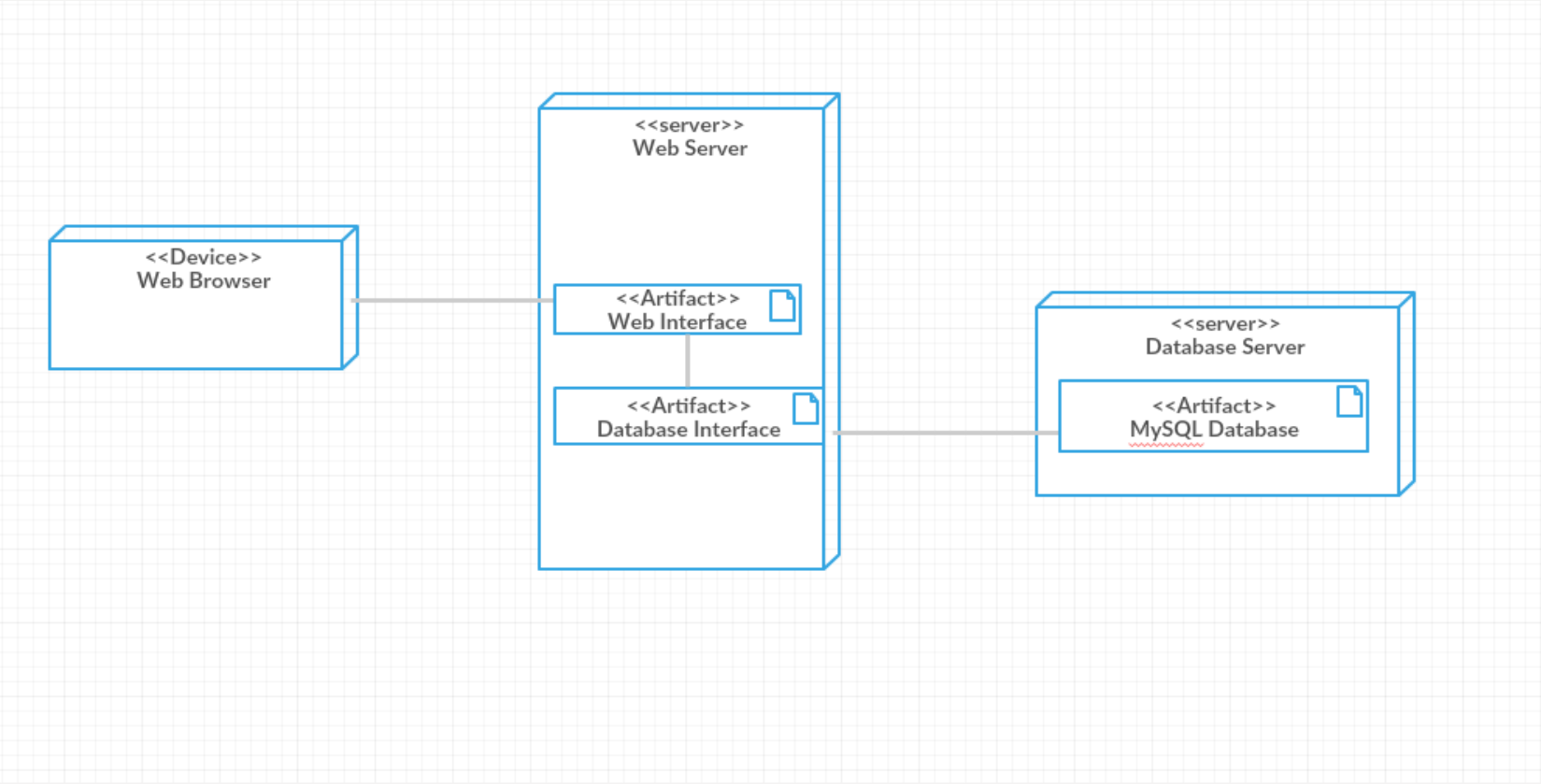
USE CASE DIAGRAM



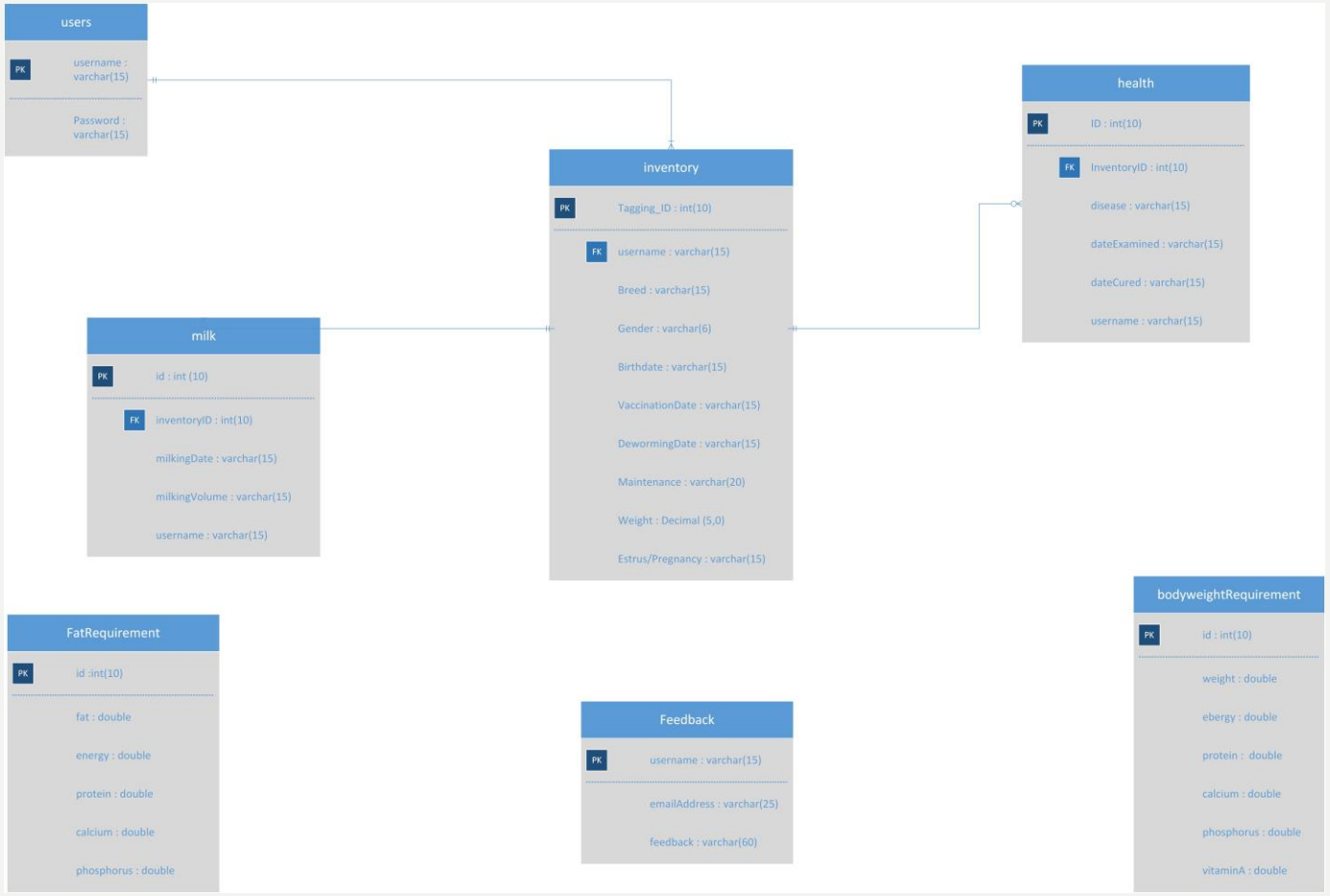
SOFTWARE ARCHITECTURE

Client-Server Architecture

Deployment Diagram :



DATABASE DESIGN



IMPLEMENTATION

Hardware

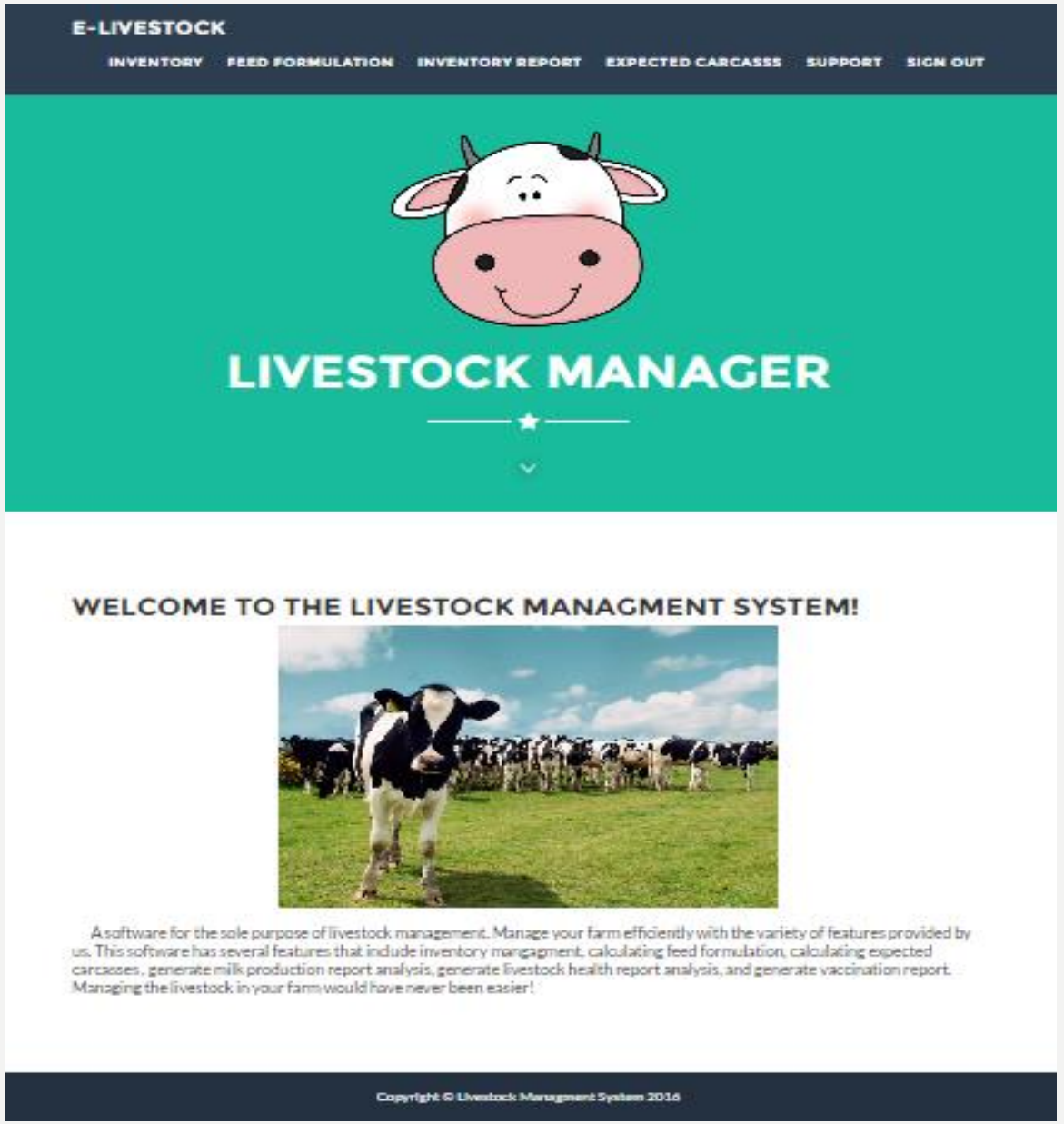
- Personal computer (windows 10)
- 64 –bit processor

Software Technology

- XAMPP
- APACHE
- MYSQL
- PHP
- HTML
- CSS
- Adobe Dreamweaver CS6

RESULTS AND DISCUSSION

MAIN PAGE


E-LIVESTOCK
INVENTORY
FEED FORMULATION
INVENTORY REPORT
EXPECTED CARCASSS
SUPPORT
SIGN OUT
LIVESTOCK MANAGER
WELCOME TO THE LIVESTOCK MANAGMENT SYSTEM!
A software for the sole purpose of livestock management. Manage your farm efficiently with the variety of features provided by us. This software has several features that include inventory mangagment, calculating feed formulation, calculating expected carcasses, generate milk production report analysis, generate livestock health report analysis, and generate vaccination report. Managing the livestock in your farm would have never been easier!
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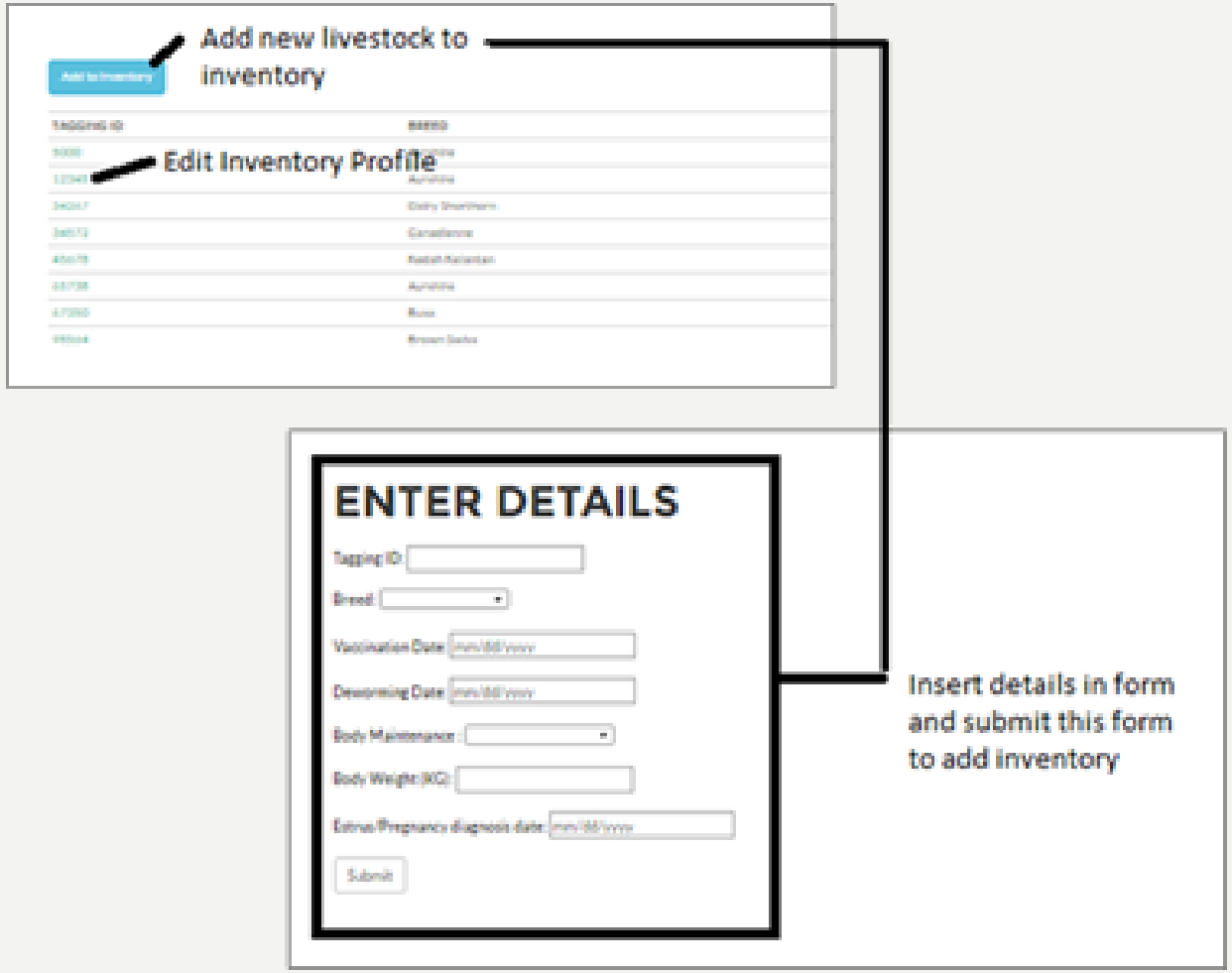
LIVESTOCK INVENTORY



LIVESTOCK FEED FORMULATION

FEED FORMULATION FOR THIS LIVESTOCK

Weight (KG): 350

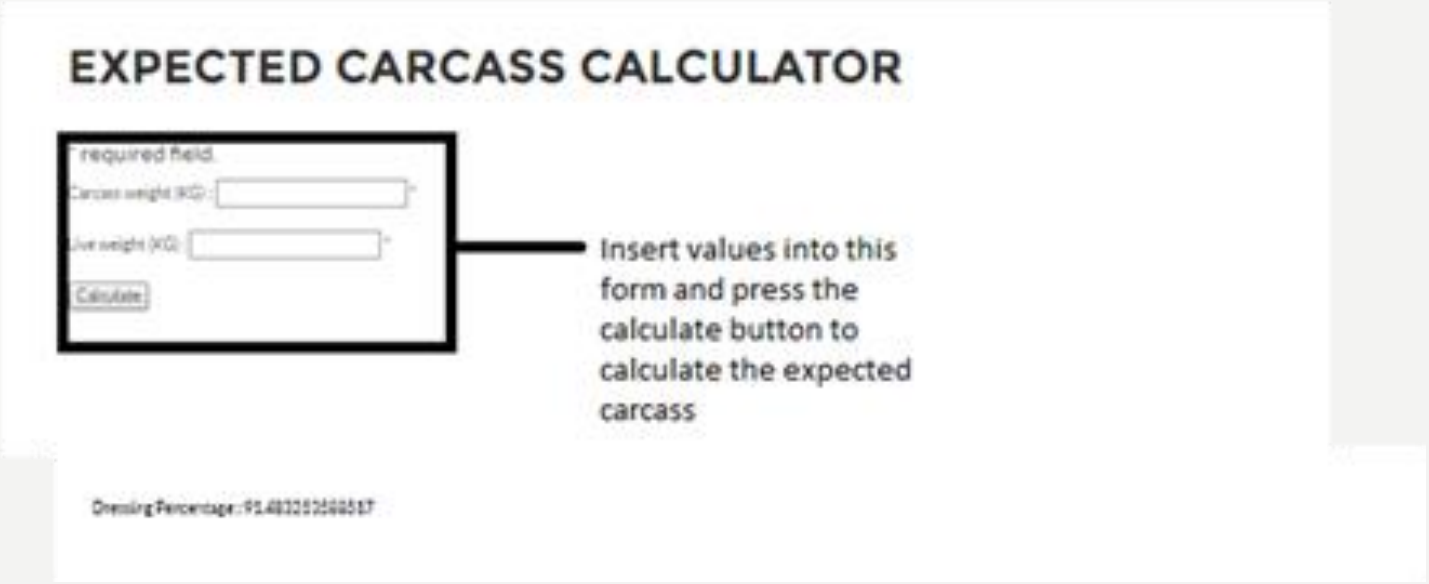
Fat Percentage : 3

Total Feed Needed : 14 KG = Concentrate : 8.4 KG & Forage : 5.6 KG

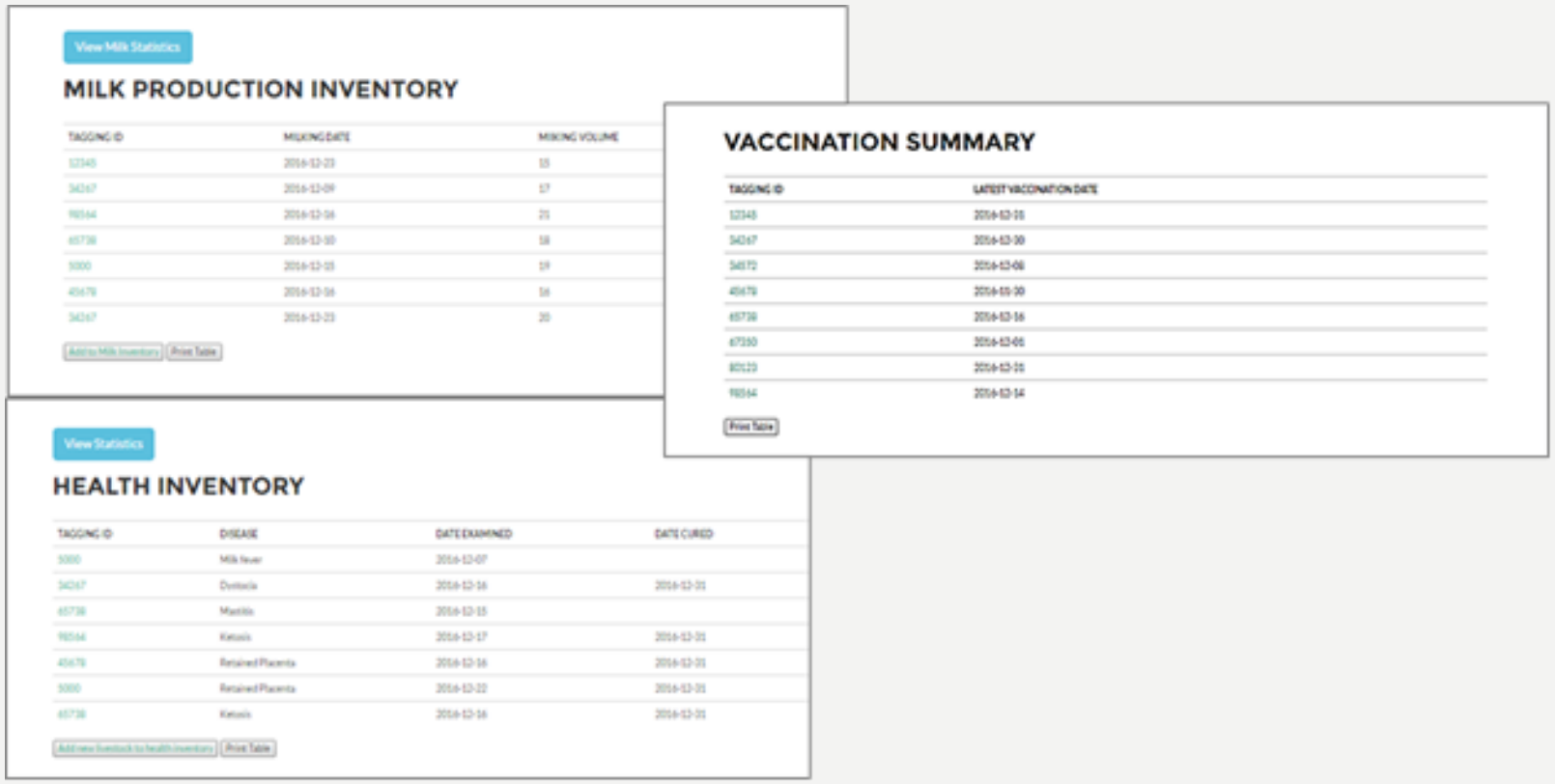
Nutrient requirement of the feed :

ENERGY (Mcal)	PROTEIN (g)	PHOSPHORUS (g)	CALCIUM (g)	VITAMIN A 1000 IU
15.15	459.8	13.97	18.15	27

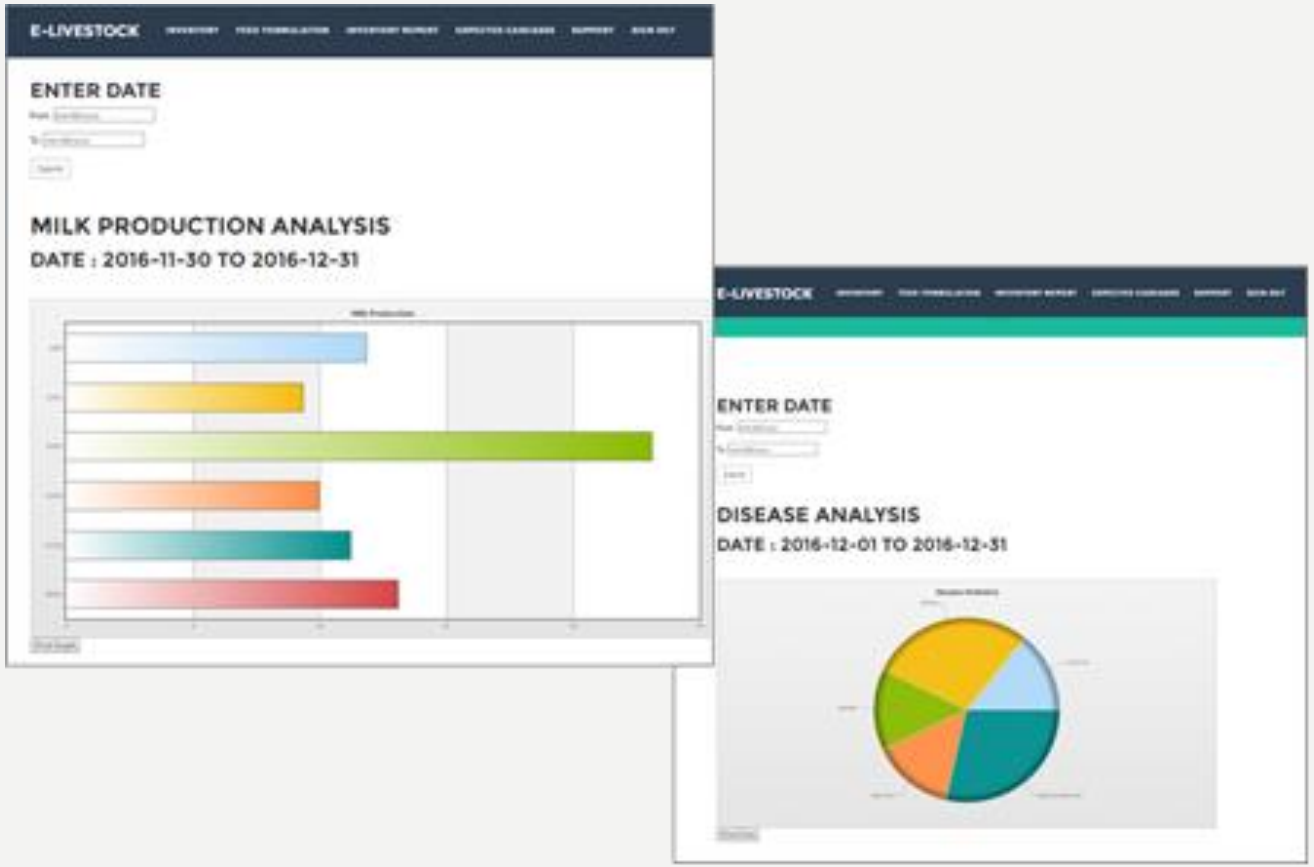
EXPECTED CARCASS



LIVESTOCK REPORTS



STATISTICAL REPORTS



CONCLUSION

- This system is developed to assist farmers in managing their livestock and improving productivity
- The development of the livestock MIS is aimed as a more simple, user-friendly system for the farmers to be able to manage their livestock for productivity and monitoring purposes
- However, there are many improvements and enhancements that can be made in order to improve the Livestock MIS as a whole for future work.

CONCLUSION

Future Work

- User interface could be designed to become more user-friendly especially for new users to the system.
- New functionalities should be added to add variety to the system
- System must be ready to host increasing number of users.
- More graph analysis representation should be added to the system