Assignment # 4
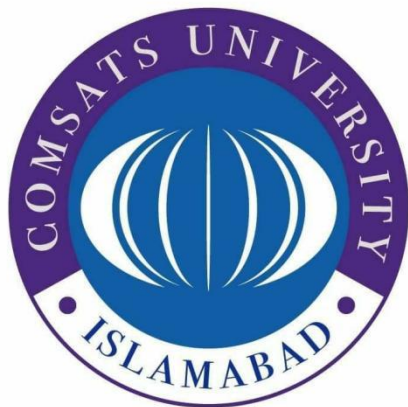# SRE

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Supplementary Specification

Project Title: Poultry Farm Management System

1. Introduction

The Supplementary Specification provides an overview of the entire document. It includes the purpose, scope, definitions, acronyms, abbreviations, references of the Supplementary Specification of Poultry Management System.

1.1 Purpose:

The purpose of this document is to define functional requirements of Poultry Management system that are not expressed in the use cases of the use-case model. The Supplementary Specifications and the use-case model together collect a complete set of requirements of the system. It also collect the non functional requirements and design constraints.

1.2 Scope:

Poultry Farm Management System is a automated system that can handle the following:

- ➢ Record management
- ➢ Sale of products
- ➢ Purchase of product
- ➢ Finance management
- ➢ Customer management
- ➢ Stock management

This Supplementary specification document defines the non-functional requirements of the system such as reliability, usability, performance, and support-ability.

1.3 Abbreviation:

PFMS stands for Poultry Farm Management System.

1.4 References:

- ➢ Problem Statement
- ➢ Interview
- ➢ Use-case Model
- ➢ Vision Document

2.Functional Requirements

These requirements are those that are in natural language and cannot be written and expressed in the use-case of the use-case model.

2.1 Error Logging:

Errors always rise up when we start implementation of the project. Hence all the errors should be retained in the Error Database Log.

3.Useability

Usability refers to the quality of a user's experience when interacting with products or systems, including websites, software, devices, or applications. The Requirements that effect the usability are as follows:

➢ Online Help

➢ Rely of business on Manual registries.

➢ No backup

4.Reliability

The reliability is divided into accuracy, integrity, and availability.The Requirements that effect the reliability are as follows:

➢ Inaccuracy of data.

➢ Lack of resources.

➢ Processing Software in such a form that cannot be integrateable.

5.Performance:

One of the most important nonfunctional requirements customers wants is a system with good and fast performance rate. Therefore, the performance is divided into time, space, and response.The Requirements that effect the performance are as follows:

➢ High load of data.

➢ Less space.

➢ Throughput.

➢ Response time

6.Supportability:

It means that the system should be reconfigureable and maintainable for new releases of latest versions.

The Requirements that effect the Supportability and maintainability are as follows:

- ➢ Latest releases
- ➢ Evolution

7. Design Constraints:

A design constraint refers to a limitation on the requirements. Constraints for Poultry Management System are as Follows:

- ➢ Java Language.
- ➢ Windows Operating System.
- ➢ Hardware.
- ➢ Database.
- ➢ Timescale.
- ➢ Operational Procedure.

8. Documentation Requirements:

- ➢ The system shall provide a help desk that explains how to navigate the software. The help desk should be customized based on what pages that user is allowed to access.
- ➢ This help desk should be accessible from all other pages.
- ➢ Daily, Monthly and yearly report generation of data.
- ➢ User Requirement Document.
- ➢ Use-case Model

9. Interfaces:

9.1 User Interface:

- ➢ All interaction with the PFMS will occur through a offline desktop-based interface.
- ➢ User Authentication is important to login into the system.
- ➢ User need hardware to operate the software.

9.2 Hardware Interface:

- ➢ Peripheral devices
- ➢ Plugs,Sockets
- ➢ CPU

9.3 Software Interface:

- ➢ Windows Operating System
- ➢ Database Language(SQL)
- ➢ Programming Language
- ➢ Software Drivers
- ➢ Standardized API and libraries.

9.4 Communication Interface:

It is a offline digitize system and can only be operable on desktop systems. Hence it donot need to connect to the internet.

10. Licensing and Security Requirements:

Windows provide WINDOWS 10 ANTIMALWARE API LICENSE AND LISTING AGREEMENT for the Apps that are standalone and compatible.

- ➢ For Security Keep operating system patches up to date.
- ➢ Install antivirus software

11. Legal, Copyright, other notices:

All Copyrights belongs to the developing company of PFMS.

12. Applicable Standards:

- ➢ Software testing standards are used in development of the software.
- ➢ SDLC stands for Software Development Life cycle. It is the most important standard for Software Development.

13. Internationalization and localization:

Localization is the process of modifying elements of an application to support the requirements of a particular locale. It means that our software should fulfill the requirements at local level.

At internationalization PFMS should follow the following requirements:

- ➢ Natural Language (English,French).
- ➢ The structure of software should be clear.
- ➢ The GUI should be simple that anyone can understand it.

14. Physical Deliverable:

The development team is providing the whole instruction manual of the software with the delivery of the software. This manual will provide ease of use for the customers.

15. Installation and Deployment:

The installation process will be done by the development team. Some policies will be settle down for the installation and deployment process.