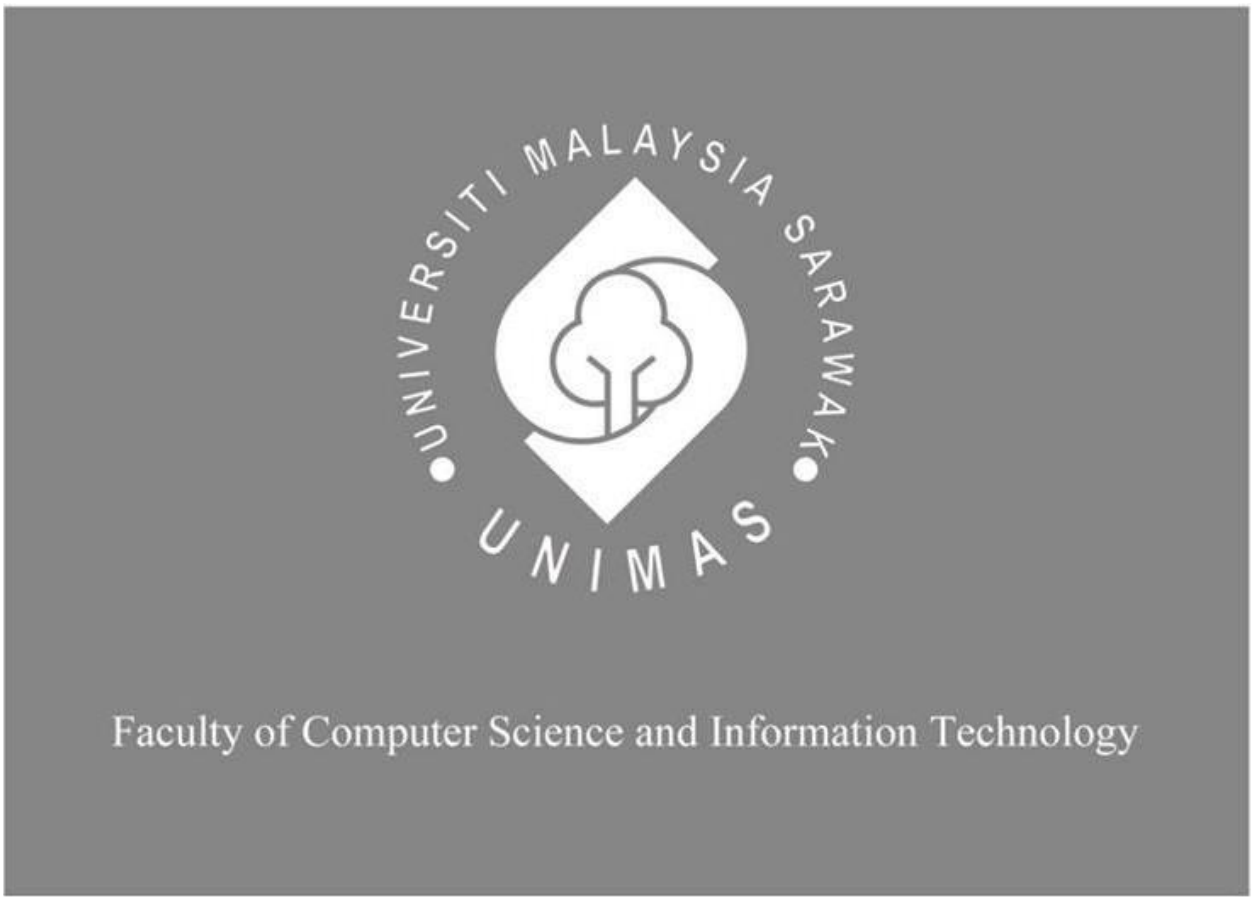

INVENTORY SYSTEM FOR HOSPITAL LABUAN

Nur Izza Fikriyah binti Kassim

Bachelor of Computer Science with Honours
(Information Systems)
2019

INVENTORY SYSTEM FOR HOSPITAL LABUAN

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This project is submitted in partial fulfillment
of the requirements for the degree of
Bachelor of Computer Science with Honours
(Information Systems)

Faculty of Computer Science and Information Technology
UNIVERSITY OF MALAYSIA SARAWAK
2019

SISTEM INVENTORI HOSPITAL LABUAN

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Projek ini merupakan salah satu keperluan untuk
Ijazah Sarjana Muda Sains Komputer dan Teknologi Maklumat
(Sistem Maklumat)

Fakulti Sains Komputer dan Teknologi Maklumat
UNIVERSITI MALAYSIA SARAWAK
2019

UNIVERSITI MALAYSIA SARAWAK

THESIS STATUS ENDORSEMENT FORM

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ACKNOWLEDGEMENT

Alhamdulillah, all praise to Allah SWT for His guidance and blessing for me to accomplish my final year project. Special thanks to my family members especially my parents, Kassim Latip and Jaliha Daud for their support throughout my final year to complete my final year project successfully.

I want to give my deepest gratitude and appreciation to my helpful supervisor, Dr Nadianatra Binti Musa for her support, encouragement and guidance throughout the thesis and research writing for my final year project.

Moreover, I would like to sincerely thank to University of Malaysia Sarawak (UNIMAS) and Faculty of Computer Science and Information Technology for giving me a chance to apply my knowledge that I had learn in this four years. Additionally, I would like to take this chance to thanks all of the respondents that are involved in the project which are Hospital Labuan's staff.

Finally, I am really thankful toward beloved friends for giving me their endless support, be it mentally or financially to complete the project.

ABSTRACT

Hospital Labuan still use manual method to save their information of inventory which is they just write it on a paper and then put it in ring file. This system is important because the IT staff of Hospital Labuan need to manage and update the data. This proposed system is created for the IT's staff of Hospital Labuan to record their inventory as well as it may save their time by doing it manually.

Inventory system is the system that is used in organization for efficient management of the hardware devices. They have to do an inventory audits on a regular basis to know the status of hardware devices on the system.

What make this system more special is customization. Depending on user requirement, they can freely choose the right and suitable feature for an organization. This system allows user to add, delete, search and update the data into the inventory system. Other than that, it allows users to generate report from the inventory system.

ABSTRAK

Hospital Labuan masih menggunakan kaedah manual untuk menyimpan maklumat inventori mereka dengan mencatat rekod tersebut di kertas dan kemudian memasukkannya ke dalam fail. Sistem ini penting kerana kakitangan IT Hospital Labuan perlu mengurus dan mengemas kini data. Sistem ini dicipta untuk kakitangan IT Hospital Labuan untuk merekodkan inventori mereka serta dapat menjimatkan masa mereka daripada melakukannya secara manual.

Sistem inventori adalah sistem yang digunakan dalam organisasi untuk pengurusan peranti perkakasan yang cekap dalam infrastruktur IT. Organisasi perlu melakukan audit inventori perkakasan secara tetap untuk mengetahui status peranti perkakasan pada sistem. Merekod data adalah matlamat utama sistem inventori.

Apa yang membuatkan sistem ini istimewa adalah pengubahsuaian. Merujuk kepada keperluan pengguna, pengguna dengan bebasnya boleh memilih fungsi yang tepat dan sesuai untuk organisasi. Sistem ini membolehkan pengguna menambah, memadam, mencari dan mengemas kini data ke dalam sistem inventori. Selain itu, ia membolehkan pengguna menghasilkan laporan dari sistem inventori.

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CHAPTER 1: INTRODUCTION

1.1 Introduction:

Inventory system is a mechanism in organization that is used for effective management for the status and usage of hardware. It is also easy to conduct and organize the hardware devices in the organization. Furthermore, every organization have to carry out hardware inventory audits as the common basis to know the status of the hardware devices on the system.

Currently, Hospital Labuan still use manual method to save their information of inventory. They still using manual system to record and save their data which is they just write it on a paper and then put it in ring file. This system is important because the staff of Hospital Labuan need to manage and update the data. This proposed system is created to easy the staff to record their inventory as well as it may save their time by doing it manually.

Other than that, this system will help to store the data and avoid missing data. This project introduced a system of Inventory System for Hospital Labuan which consisted of automated database.

1.2 Problem Statement:

Nowadays, there are many type of data that need to be record regardless of any organization. Hospital Labuan consists of around 43 units and every unit have a lot of hardware and all the details of hardware need to be record such as all the details of pc set and printer. Currently, they still using manual system to record and save their data which is they just write it on a paper and then put it in ring file.

Besides that, it is difficult for the staff to identify and search the record by find all over the files. Other than that, they need to calculate manually for the total of data inventory. It is also difficult for the staff to manage and arrange the data either the hardware need to be dispose or still active. In addition, the possibilities of losing data may happen anytime. Lastly, it may lead to ineffectiveness and inefficient of the job done.

1.3 Objective:

The objectives of the development system are:

- To develop an inventory system that can be used by ICT's staff in Hospital Labuan which currently using manual system.
- To evaluate the usability for the proposed system.

1.4 Scope:

The system development is designed for Hospital Labuan staff to manage and record their information of inventory which are the status and usage of hardware. There will be two users in this system which are Information Technology officer and their staff. Information Technology officer will be played as a role of admin whereas staff will be the main user. The admin can create a new account for the new user to access the system and also delete the account for the staff who

are no longer can use the system. For the both user which are admin and main user of this system, they can add, search, modify, delete and generate report of the inventory in the system. The information that they entered will be saved into the database.

1.5 Brief Methodology:

For this project, the methodology that will be used to develop the Inventory System for Hospital Labuan is based on System Development Life Cycle (SDLC). There are five phases involved in System Development Life Cycle (SDLC)

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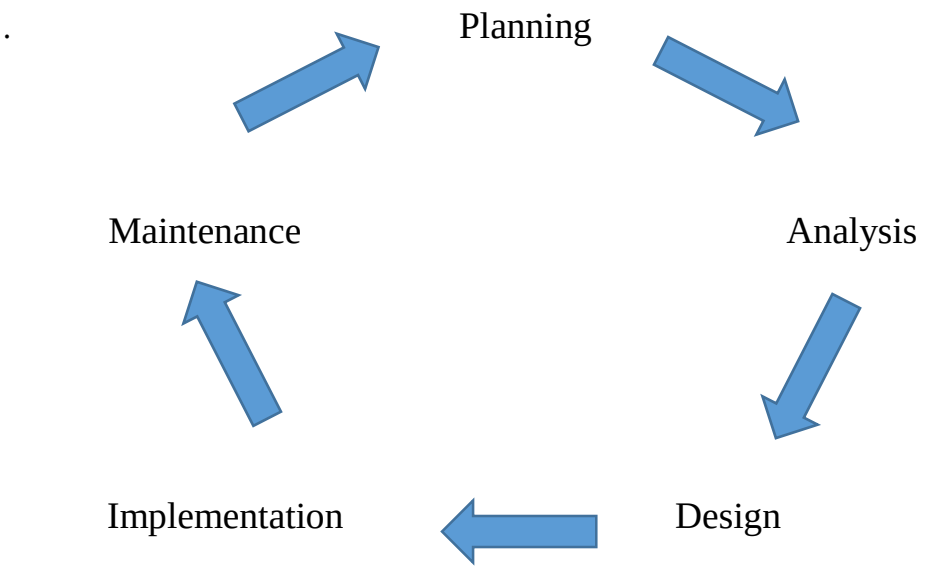

Figure 1.1: System Development Life Cycle (SDLC) Phases

1.5.1 Planning

For the first phase, we will identify what are the objectives of the system that we want to develop to ensure the systems developed successfully and achieved all the objectives. Other than that, we also need to identify data or requirement that needed for this project and plan the suitable schedule to process the system by taking every aspect involved.

1.5.2 Analysis

For this phase, data that have been collected will be analyses such as what are the functions that users want from the system and the issues faced by the users. This phase will involve developer and users. Data will be collect from the users by doing a questionnaires or interviews to get the information regarding this system.

1.5.3 Design

For the third phase, the system development design is based on the plan, objectives and requirement specifications. System design helps in specifying the requirements and defining system architecture such as Gant chart, use case, Data Flow Diagram (DFD), and Entity Relationship Diagram (ERD). Moreover, the developer will start do the coding according the features and requirements that users need.

1.5.4 Implementation

Next phase, the proposed system will be complete by including the testing for the system. It is including the detection of errors in the software. The testing process is to know and test efficiency of the system and how the system worked which are involve the developer and users.

1.5.5 Maintenance

For this phase, maintenance phase is important because we need to ensure that the system functioning smoothly without any bug or error. Throughout this phase, the system's performance will be always evaluated such as need to make sure it meets the right requirement and can face current security threats.