BORANG PENGESAHAN STATUS TESIS

JUDUL: FAST TRACK PATIENT CONSULTATION

SESI PENGAJIAN: 2009/2010

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FAST TRACK PATIENT CONSULTATION

AHMAD FARIZ BIN DZOLKHIFLI

This report is submitted in partial fulfillment of the requirements for the Bachelor of Computer Science (Database Management)

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
UNIVERSITI TEKNIKAL MALAYSIA MELAKA
2009
DECLARATION

I hereby declare that this project report entitled

FAST TRACK PATIENT CONSULTATION

is written by me and is my own effort and that no part has been plagiarized

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STUDENT : ________________________ Date: ______________

(AHMAD FARIZ BIN DZOLKHIFLI)

SUPERVISOR: ________________________ Date: ______________

(DR. MOHD KHANAPI BIN ABD GHANI)
DEDICATION

To my beloved parents..
Mother, you always stay by my side even though we far away,
You stay at home praying for his son to be successful every night,
Without knowing tired and give up,
Praying and give blessing for his son that always want to redeem back all your kindness,
For our future together,
We make it through together
Mother, without you I am not existed.

Father, your sacrificing cannot be replied,
Your burdened for family are uncounted,
Your hard work never exist word difficulty and give up,
You are my idol,
Your heroic and toughness overcome all the challenges,
Always be in my heart,
Till the day that I try to become just like you.
ACKNOWLEDGEMENTS

I would like to thank Dr. Mohd Khanapi Bin Abd Ghani for giving assistant to complete this project successfully. There are so many lessons that I learnt from his guidance. When I'm in trouble or in lost, he will lead me back to correct ways. Your kindness and lessons I will not forget until the end. Even when he is busy with his own matters, but never he will forget or abandon his student. The happiness being together always reminds him as my dad. Hopefully, your family will be in happiness and your sons and daughters being soleh and solehah, and good for mankind.

I also would like to thanks for my parents for giving me the support and motivation. Every time they never forget about me, and always praying for his son to be successful. Even though we far away, but all the supports always there for me. The finances always delivered to me unbroken, and they high hopes and trust his son to spend it in the right ways. Hopefully, your sacrificing will be granted.

Not to forget to all my friends, that helps me directly or indirectly. They helps me finished the project, helps me when I'm blur and blind, expands my knowledge, and never moaned when the times I needed.

Conclusion is, for those that help me that I didn't mention it, I greatly appreciate the words thank you are not sufficient. Your kindness and greet will be granted and blessed by Allah S.W.T. May in your life, will always be blessed by Allah S.W.T. InsyaAllah.
ABSTRACT

Fast Track Patient Consultation system was developed to ease and give convenience for doctor to manage patient. The system functions are like managing patient manually, but the differences are it store in the database. So, there are security and safety data. It save a lot of time because of consulting patient is not taking about an hour. It definitely will run through a lot of patients for a day. The system functions as a stand-alone, which means there is not need online or internet to run this system. And it builds by using Java language, one of the currently modern languages that applied in everywhere. Using Java need powerful application like Netbeans. Netbeans provide easy drag-and-drop function components. It is friendly application because of Graphical User Interface (GUI). The study has been made during developing the system and among of the study are by searching on the internet about existing system that is similar with the system that want to be developed and for researching. The output from this project will be a computerized system that can help any all the clinics in managing or consulting the patients.
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LIST OF ABBREVIATIONS

FTPC - Fast Track Patient Consultation
JavaDB - Java Database
SDLC - System Development Life Cycle
DBLC - Database Life Cycle
RAD - Rapid Application Development
GUI - Graphical User Interface
SSDAM - Structured System Design and Analysis Method
CCTA - Central Computing and Telecommunications Agency
UK - United Kingdom
OGC - Office of Government Commerce
IDE - Integrated Development Environment
CS3 - Creative Suite 3
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<td>Personal Computer</td>
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CHAPTER I

INTRODUCTION

1.1 Project Background

Currently, information about patient record manually record in the paper and kept in a document files. This enable probability for patient information that has been recorded lost was high which might due to user mistakes or occurrence of accident like fires. To prevent this accident from happening, the measure used by keeping and storing the information in safest and secure like in a computer. So, the system must be developing to handle and give convenient for doctor to refer the patient information.

The system that will be developed focus on patient consultation when visiting the doctor. It is called Fast Tracking Patient Consultation that the name itself suggest this system is fast and quick for doctor to deal with patient that having some disease. When dealing with many patients waiting in the list queue, it is very important to have system that organize and manage patient effectively and efficiently. This system will cover the aspects and functions according to requirements.
1.2 Problem Statements

There are several problems need to be state in current manual record.

- The records that store in cabinets are not very safe and easily being invaded by anyone.
- Accident could happen anytime. When we lost the patient data, there are no ways we can recover it back unless we photocopy the data. But the amount cost for photocopy already exceeds high cost if they have thousands of patients.
- The doctor needs to write all complaints, diagnosis, immunizations, and drugs in the paper. There are quite amount of works need to be type down in the paper and can cause lost fatigue to doctor due to many things to write it down.
- If the paper is lost, searching will be tiresome and consume a lot of energy and time.

1.3 Objectives

- To handle the patients fast and quick.
- To organize and manage patients efficiently.
- To store the data and information in database, which is the database is very secure and safe to store some very important information about the patients.
- To backup and restore automatically without the needs to be worrying about the lost of data.
- To provide function that can manipulate all data systematically and faster.
1.4 Scope

Scopes of this Fast Track Patient Consultation target only for staff in their own clinic because the staff done all the works.

User Scope:

- Staff (Doctor)

  The staff use the system to records all the patient information such as complaint, diagnosis, vital sign, immunization, and drug.

The Scope of the System includes:

- Select and View
  The patient that needs to be consulted must be selected first and detail information about patient will be displayed.

- Login
  After the patient had been selected, the login with patient name and their patient number will be displayed and therefore, the next process will be consulted.

- Add information
  The process involved determines the complaint given by patients, their immunization, vital sign, diagnosis, and of course, required drugs that need to be provided.

- Print prescription
  The reports involve collected queries about patient’s information and will be printed to handout to patients.

- Backup / Restore
  Backup is copying selected database to local hard disk. Restore is recovering the backup database or replacing into their originality places.
1.5 Project Significance

Of course, the system will benefited more to staff (doctor) and then follow by patients.

- **Staff**
  
  Because the quick and fast of this system will manage, doctor can handle or deal many patients without wasting time and consuming much energy. Expected per patient with about 10 to 15 minutes time to ends.

- **Patient**
  
  It is important to patients to get their disease terminated as soon as possible before their spread to others human being. Therefore, the quicker the doctor handles the patient, the more benefit it will be given to other patients.
1.6 Expected Output

The expected output of this project is system based that will integrate with JavaDB database management system which can help organize and store data safely in database. It is to ensure safety of data. The system also can provide function to help doctor to manage their patient effectively and efficiently.

- Application System
  The final system should help the doctor to handle the patients.
- Providence
  The output will give convenience to clinic’s staff.
- Improvement
  In the future, the enhancement will be implementing to enrich the system’s features.
- Helps
  Any outside help or expertise who wants to continue in this work will be pleasures.

1.7 Conclusion

The conclusion for my system is it helping the doctor in consulting the patients. This new system will give benefits for doctors and patients. It might also become the first new ways of managing the patient because of replacing the manual methods on how to consulting the patient to the new way of consulting the patient via computer systems.
CHAPTER II

LITERATURE REVIEW AND PROJECT METHODOLOGY

2.1 Introduction

In this chapter it will describe about literature review and methodology that will be used during developing the project. The chapter mainly contains information on the definition of and its benefits in the organizations.

A literature review can be just a simple summary of the sources, but it usually has an organizational pattern and combines both summary and synthesis. By doing literature review may give a general idea to improve overall performance to my system. It might give a new interpretation of old material or combine new with old interpretations, or it might trace the intellectual progression of the field, including major debates.

Methodology is a technique or approach that will be used during developing the project. It can guide developer to manage and develop the project systematically. The methodology the have been chosen for this project is The system development life cycle (SDLC) and the database life cycle (DBLC).
2.2 Facts and Findings

For this section, it will list about facts and finding that relate with this project based on research that has been made from internet and research. This section also will be divided into three sections which are domains, existing system and techniques. In domain section, it will describe about domain that can relate with this project while in existing system section, it will study about existing system that has been used and similar with this project. In techniques section it will describe techniques or approaches that can be used in developing the project.

2.2.1 Domains

The main domain of Fast Track Patient Consultation (FTPC) is hospital management for the Clinic or Hospitals. The clinic provides its services to the patient and if it is critical, then they would be referred to other hospital or department. Before the patient being sent for further treatment, the clinic will sent the patient information about their diagnosis, immunization, vital sign, complaint, and drugs to the hospital so the knowledgeable about patient can be spread quickly.

The importance of this domain is to make an enhancement from the current system to be more manageable and well used.

2.2.2 Existing System

The systems that will be developing are the new method for managing patients in clinics. The previous system is handled manually by writing down in the paper. The steps are like everything information about patients is by typing down in the paper. So, there actually are no real existing systems that exist before these systems develop. For the first application that involve in clinic, there will be major or minor flows missing,