UNIVERSITI TEKNOLOGI MARA

THE DEVELOPMENT OF PHARMACY INVENTORY MANAGEMENT SYSTEM FOR MEDIWELL FARMASI JASIN

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ABSTRACT

The pharmacy inventory management system is now one of the most significant tools to manage the medical shop. It is mostly used to manage pharmacy-related activities such as medical inventory, record keeping as well as managing medicine stock and information of the expired medicines. The study area for this project is in Mediwell Farmasi Jasin, Melaka. Currently, this pharmacy is operating manually for certain activities and using an old version of the computerized inventory management system, they do not have sufficient software to manage their daily activities. It requires a pharmacist to verify the expired date of the medicine two times a week, to monitor the stocks of medicine that are at the re-order inventory limits, and it may take a long time to determine whether a certain medicine is out of stock. To decrease these issues, a computerized web-based system is created to help speed up daily operations. The aim of this project is to develop a web-based system for Mediwell Farmasi Jasin. The objectives of this project are to gather and analyze the requirements from stakeholder, to design the system based on analyzed requirements and lastly to develop the system. This project is intended to solve all the difficulties relating to the handling of the medication and to enhance the precision, security, and effectiveness of the pharmaceutical shop. The system was developed using three out of five waterfall methodology stages which are gathering requirements and analysis, system design and implementation. In the first stage, the interview session was performed to collect data. All the requirements and related diagram in this phase are documented in the Software Requirement System (SRS). Detailed class diagrams, package diagrams, and multilayer sequence diagrams were designed during the system design stage. This project has its own significance for the Jasin retail pharmacy stores. By using this system, it will help them to records all pharmacist, supplier, balance stock, medicine information, etc. The system also provides the notification function to inform the pharmacist of the expiry date of the medicine and the minimum amount of inventory drugs. In fact, this proposed system will also enhance the efficiency of the pharmacy of the business process by minimizing the danger of loss of data.

TABLE OF CONTENT

CONTENTS **PAGE**

SUPERVISOR APPROVAL iii
STUDENT DECLARATION iv
ACKNOWLEGEMENT v
ABSTRACT vi
TABLE OF CONTENT vii
LIST OF FIGURES x
LIST OF TABLES xi
LIST OF ABBREVIATIONS xii

CHAPTER ONE: INTRODUCTION 1

1.1 Background of Study 1
1.2 Problem Statement 3
1.3 Project Aim 4
1.4 Project Objectives 4
1.5 Project Scope 4
1.6 Project Significance 5
1.7 Project Outline 6
1.8 Summary 7

CHAPTER TWO: LITERATURE REVIEW 8

2.1 Overview of Information System 8
2.1.1 Type Information System 10
2.2 Inventory 12
2.2.1 Inventory Management 13
2.2.2 Inventory Management System 13

2.2.3 Type of Inventory 14
2.2.4 The advantage of Inventory Management System 15
2.2.5 Inventory Management Technique 17
2.3 Pharmacy 18
2.3.1 Pharmacy Information System 19
2.4 Overview Notification System 20
2.4.1 Web-based notification system 22
2.4.2 Email Notification System 22
2.4.3 Short Message Service (SMS) Notification 23
2.4.4 Mobile Push Notification System 24
2.5 Methodology 24
2.5.1 Traditional Methodology 24
2.5.2 Waterfall Model 25
2.5.3 Iterative 28
2.5.4 Rapid Application Development 28
2.5.5 Comparison of Development Approach 31
2.6 Related System 33
2.6.1 Comparison Related System 38
2.7 Discussion 39
2.8 Summary 40

CHAPTER THREE: METHODOLOGY 41

3.1 Waterfall Methodology 41
3.2 Requirements Gathering and Analysis 43
3.2.1 Create Use Case 45
3.2.2 Create Activity Diagram 46
3.2.3 Create System Sequence Diagram 47
3.2.4 Create a Domain Class Diagram 47
3.3 System Design 48
3.3.1 Design Detailed Class Diagram 48
3.3.2 Design Multilayer Sequence Diagram 49
3.4 Implementation 49
3.4. 1 Construct Database 49