Table of Contents

CONSENT SHEET ..... Error! Bookmark not defined.
VALIDITY SHEET ..... Error! Bookmark not defined.
DEVOTION SHEET ..... Error! Bookmark not defined.
ABSTRACT ..... Error! Bookmark not defined.
ABSTRAK ..... Error! Bookmark not defined.
PREFACE ..... Error! Bookmark not defined.
LIST OF TABLES ..... **iv**
LIST OF FIGURES ..... **v**
CHAPTER I ..... Error! Bookmark not defined.
INTRODUCTION ..... Error! Bookmark not defined.
1.1 Background ..... **Error! Bookmark not defined.**
1.2 Statement of the Problem ..... **Error! Bookmark not defined.**
1.3 Identification of Problems ..... **Error! Bookmark not defined.**
1.4 Research of the Purposes ..... **Error! Bookmark not defined.**
1.5 Benefits of the research ..... **Error! Bookmark not defined.**
1.6 Scope of The Problem ..... **Error! Bookmark not defined.**
1.7 Framework of Thought ..... **Error! Bookmark not defined.**
1.8 Systematics of writing ..... **Error! Bookmark not defined.**
CHAPTER II ..... Error! Bookmark not defined.
LITERATURE REVIEW ..... Error! Bookmark not defined.
2.1 Literature Review ..... **Error! Bookmark not defined.**
2.1.1 Introduction to Pharmacy Management Systems ..... **Error! Bookmark not defined.**
2.1.2 Importance of Information Technology in Healthcare . **Error! Bookmark not defined.**
2.1.3 Communication and Collaboration **Error! Bookmark not defined.**
2.1.4 Data Management and Accessibility **Error! Bookmark not defined.**
2.1.5 Decision-Making Support ... **Error! Bookmark not defined.**
2.1.6 Telehealth and Remote Services **Error! Bookmark not defined.**

UNIVERSITAS ISLAM NEGERI
SUNAN GUNUNG DJATI
BANDUNG

2.1.7 Efficiency and Workflow Optimization**Error! Bookmark not defined.**
2.1.8 Patient Empowerment ..... **Error! Bookmark not defined.**
2.1.9 Innovation and Continuous Improvement**Error! Bookmark not defined.**
2.2 Challenges in Current Pharmacy Management Systems. **Error! Bookmark not defined.**
2.2.1 Manual Data Entry and Workflow Inefficiencies..... **Error! Bookmark not defined.**
2.2.2 Medication Errors and Safety Concerns**Error! Bookmark not defined.**
2.2.3 Limited Interoperability..... **Error! Bookmark not defined.**
2.2.4 Outdated Technology and Infrastructure**Error! Bookmark not defined.**
2.2.5 Insufficient Integration with Healthcare Workflows .... **Error! Bookmark not defined.**
2.2.5 Challenges of Pharmacy Management System in Somalia..... **Error! Bookmark not defined.**
2.2.5 Advantages and Benefits of Web-Based pharmacy management system. ..... **Error! Bookmark not defined.**
2.2.8 Cost Implications and Resource Constraints..... **Error! Bookmark not defined.**
2.3 Role of User-Friendly Interfaces in Pharmacy Systems.. **Error! Bookmark not defined.**
2.3.1 Enhanced Usability and Adoption**Error! Bookmark not defined.**
2.3.2 Reduced Learning Curved... **Error! Bookmark not defined.**
2.3.3 Error Reduction and Patient Safety**Error! Bookmark not defined.**
2.3.4 Efficient Workflow and Task Completion**Error! Bookmark not defined.**
2.4 Security and Privacy Concerns in Pharmacy Information Systems..... **Error! Bookmark not defined.**
2.4.1 Patient Data Breaches..... **Error! Bookmark not defined.**

2.4.2 Unauthorized Access and Authentication Issues ..... **Error! Bookmark not defined.**
2.4.3 Data Encryption and Transmission Security ..... **Error! Bookmark not defined.**
2.4.4 Pharmacy System Integration Challenges **Error! Bookmark not defined.**
2.5 Implementation Challenges .... **Error! Bookmark not defined.**
2.5.1 Resistance to Change..... **Error! Bookmark not defined.**
2.5.2 Integration with Existing Systems **Error! Bookmark not defined.**
2.5.3 Resource Constraints ..... **Error! Bookmark not defined.**
2.5.4 Data Security and Privacy Concerns **Error! Bookmark not defined.**
2.6 Contextual Framework and Industry Insights ..... **Error! Bookmark not defined.**
2.6.1 Industry Dynamics and Technological Evolution ..... **Error! Bookmark not defined.**
2.6.2 Successful Case Studies in Pharmacy Transformation **Error! Bookmark not defined.**
2.6.3 Technological Innovations in Pharmaceutical Care ..... **Error! Bookmark not defined.**
2.6.4 Regulatory Framework and Compliance Standards ..... **Error! Bookmark not defined.**
2.6.5 Patient-Centric Approaches in Pharmacy Services ..... **Error! Bookmark not defined.**
2.6.6 Integration Challenges and Solutions **Error! Bookmark not defined.**
2.6.7 Pharmacy Network Collaborations **Error! Bookmark not defined.**
2.6.8 Emerging Trends and Future Directions **Error! Bookmark not defined.**
2.6.9 Software Interfaces ..... **Error! Bookmark not defined.**
2.6.10 Hardware Interfaces ..... **Error! Bookmark not defined.**
CHAPTER III ..... Error! Bookmark not defined.

RESEARCH METHODOLOGY ..... Error! Bookmark not defined.
3.1 Design ..... **Error! Bookmark not defined.**
3.2 Module descriptions..... **Error! Bookmark not defined.**
3.3 Dataflow Diagrams Level 0, 1 and 2**Error! Bookmark not defined.**
3.4 Pharmacy Management System Database Design .....**Error! Bookmark not defined.**
3.5 ER Diagram for Pharmacy Management System.....**Error! Bookmark not defined.**
3.6 Scenarios (Use Case) View..... **Error! Bookmark not defined.**
3.7 Waterfall Model ..... **Error! Bookmark not defined.**
CHAPTER IV ..... Error! Bookmark not defined.
RESULTS AND DISCUSSION ..... Error! Bookmark not defined.
4.1 Implementation ..... **Error! Bookmark not defined.**
4.1.1 Overview of Pharmacy Management System .....**Error! Bookmark not defined.**
4.1.2 Implementation Strategies ... **Error! Bookmark not defined.**
4.1.3 Key Features Implementation**Error! Bookmark not defined.**
4.1.4 User Interface Design ..... **Error! Bookmark not defined.**
4.1.5 Data Security Measures ..... **Error! Bookmark not defined.**
4.1.6 Integration with Existing Systems**Error! Bookmark not defined.**
4.1.7 Challenges and Solutions .... **Error! Bookmark not defined.**
4.2 Technical Backend Execution **Error! Bookmark not defined.**
4.3 Logging and Monitoring..... **Error! Bookmark not defined.**
4.3 Testing ..... **Error! Bookmark not defined.**
4.4 Software Development Life Cycle (SDLC)**Error! Bookmark not defined.**
CHAPTER V ..... Error! Bookmark not defined.
CONCLUSION AND RECOMMENDATIONS Error! Bookmark not defined.
5.1 Conclusion ..... **Error! Bookmark not defined.**
5.2 Recommendations..... **Error! Bookmark not defined.**

REFERENCES ..... Error! Bookmark not defined.

LIST OF TABLES

Table 1 State of the Art ..... **Error! Bookmark not defined.**
Table 2 Log in testing ..... **Error! Bookmark not defined.**
Table 3 Sales testing ..... **Error! Bookmark not defined.**
Table 4 Payment testing ..... **Error! Bookmark not defined.**
Table 5 Receiving ..... **Error! Bookmark not defined.**
Table 6 Medicine list ..... **Error! Bookmark not defined.**
Table 7 Supplier ..... **Error! Bookmark not defined.**
Table 8 Customer ..... **Error! Bookmark not defined.**
Table 9 User ..... **Error! Bookmark not defined.**

UNIVERSITAS ISLAM NEGERI
SUNAN GUNUNG DJATI
BANDUNG

LIST OF FIGURES

Figure 1 Framework ..... **Error! Bookmark not defined.**
Figure 2 THREE STARS Pharmacy..... **Error! Bookmark not defined.**
Figure 3 Flow chart of pharmacy system ..... **Error! Bookmark not defined.**
Figure 4 0 Level DFD for Pharmacy Management System **Error! Bookmark not defined.**
Figure 5 Level 1 DFD for Pharmacy Management System **Error! Bookmark not defined.**
Figure 6 Level 2 DFD for Pharmacy Management System **Error! Bookmark not defined.**
Figure 7 Entity relationship diagram ..... **Error! Bookmark not defined.**
Figure 8 Login Page ..... **Error! Bookmark not defined.**
Figure 9 Homepage ..... **Error! Bookmark not defined.**
Figure 10 Sales form ..... **Error! Bookmark not defined.**
Figure 11 Medicine list form ..... **Error! Bookmark not defined.**
Figure 12 Supplier form ..... **Error! Bookmark not defined.**
Figure 13 Inventory form ..... **Error! Bookmark not defined.**
Figure 14 Medicine category form ..... **Error! Bookmark not defined.**
Figure 15 Medicine types form ..... **Error! Bookmark not defined.**
Figure 16 Expired List Form ..... **Error! Bookmark not defined.**
Figure 17 Customer List Form ..... **Error! Bookmark not defined.**
Figure 18 Users Form ..... **Error! Bookmark not defined.**

UNIVERSITAS ISLAM NEGERI
SUNAN GUNUNG DJATI
BANDUNG

uin
UNIVERSITAS ISLAM NEGERI
SUNAN GUNUNG DJATI
BANDUNG