**Table of Contents**

[ABSTRACT PAGE I](#_Toc142029075)

[ACKNOWLEDGEMENT II](#_Toc142029076)

[LIST OF ABBREVIATION V](#_Toc142029077)

[LIST OF FIGURES VI](#_Toc142029078)

[LIST OF TABLES VII](#_Toc142029079)

[Chapter1: Introduction 1](#_Toc142029080)

[1.1. Introduction 1](#_Toc142029081)

[1.2. Problem Statement 1](#_Toc142029082)

[1.3. Objectives 1](#_Toc142029083)

[1.4. Scope and Limitation 1](#_Toc142029084)

[1.5. Development Methodology 2](#_Toc142029085)

[1.6. Report Organization 3](#_Toc142029086)

[Chapter2: Background Study and Literature Review 5](#_Toc142029087)

[2.1. Background Study 5](#_Toc142029088)

[2.2. Literature Review 5](#_Toc142029089)

[Chapter 3: System Analysis 7](#_Toc142029090)

[3.1. System Analysis 7](#_Toc142029091)

[3.1.1. Requirement Analysis 7](#_Toc142029092)

[Use Case Diagram 7](#_Toc142029093)

[3.1.2. Feasibility Analysis 8](#_Toc142029094)

[3.1.3. Data Modelling (ER-Diagram) 10](#_Toc142029095)

[3.1.4. Process Modelling (DFD) 11](#_Toc142029096)

[3.2. System Design 13](#_Toc142029097)

[3.2.1. Architectural Design 13](#_Toc142029098)

[3.2.2. Database Schema Design 13](#_Toc142029099)

[3.2.3. Interface Design (UI / UX) 14](#_Toc142029100)

[3.2.4. Algorithm Details 15](#_Toc142029101)

[Chapter 4: Implementation and Testing 16](#_Toc142029102)

[4.1. Implementation 16](#_Toc142029103)

[4.1.1. Tools Used in Implementation 16](#_Toc142029104)

[4.1.2. Implementation Details of Modules (Description of procedures/functions) 17](#_Toc142029105)

[4.2. Testing 18](#_Toc142029106)

[4.2.1. Test Cases for Unit Testing 18](#_Toc142029107)

[4.2.2. Test Cases for System Testing 19](#_Toc142029108)

[Chapter 5: Conclusion and Future Recommendations 21](#_Toc142029109)

[5.1. Conclusion 21](#_Toc142029110)

[5.2. Lesson Learnt / Outcome 21](#_Toc142029112)

[5.3. Future Recommendations 21](#_Toc142029114)

[References 22](#_Toc142029116)

[Appendices (Screen Shots/ Source Codes/ Supervisor Visit Log Sheets) 23](#_Toc142029115)