Table of Contents

Title Page

Table of Contents ………………………………………………………….. i

List of Tables

4.1 Existing Data Dictionary

5.1 Proposed Data Dictionary

5.2 Tables/Files Layout

6.1 Use Case Narrative Report

6.2 Use Case Stories

6.3 Gap Analysis

List of Figures

4.1 Existing Data Flow Diagram

5.1 Proposed Data Flow Level 0 Diagram

5.2 Proposed Data Flow Level 1 Diagram

5.3 Proposed Data Flow Level 1 Diagram Emergency Inspection

5.4 Entity-Relationship Diagram

6.1 Existing Conceptual Framework

6.2 Proposed Conceptual Framework

6.3 Use Case Diagram

6.4 Activity Diagram

6.5 Activity Diagram - Execute Inspection

6.6 Activity Diagram - Address Issue

6.7 Activity Diagram - Emergency Inspection

6.8 Class Diagram

6.9 Sequence Diagram

List of Appendices

Abstract

1. Introduction ……..……………………………………………………… 1
   1. Project Context.………………………………………… …….... 1
   2. Purpose and Description ……………………………………….. 3
   3. Statement of Objectives ……………………………….………. 4
      1. General Objectives……………………………….… 4
      2. Specific Objectives……………………………….… 4
   4. Scope and Limitations of the Study ……………………………. 5
2. Review of Related Literatures/Systems……………………………….... 7
   1. Local Literatures
   2. Foreign Literatures
3. Technical Background………………………………………………….. 27
   1. Programming Language………………………………………… 27
      1. Android Platform…………………………………… 27
      2. Oracle for Database………………………………… 28
   2. Resource Requirements………………………………………… 29
      1. Hardware Requirements……………………………. 29
      2. Software Requirements…………………………….. 29
4. The Existing System……………………………………………………. 30
   1. Company Background…………………………………………... 30
   2. Description of the System………………………………………. 31
   3. Data Flow Diagram……………………………………………... 32
   4. Data Dictionary…………………………………………………. 33
   5. Problem Areas…………………………………………………... 34
5. The Proposed System…………………………………………………… 35
   1. System Overview………………………………………………... 35
   2. Process Specification…………………………………………… 36
      1. Data Flow Diagram…………………………………. 36
      2. Data Dictionary……………………………………... 39
   3. Data Specification………………………………………………. 41
      1. Entity-Relationship Diagram………………………... 41
      2. Tables/Files Layout…………………………………. 42
6. Methodology……………………………………………………………. 43
   1. Other Diagrams…………………………………………………. 43
      1. Existing Conceptual Framework……………………. 43
      2. Proposed Conceptual Framework………………….... 44
      3. Use Case Diagram…………………………………… 45
      4. Use Case Narrative Report…………………………... 46
      5. Use Case Stories…………………………................... 51
      6. Activity Diagram……………………………………... 52
         1. Activity Diagram - Execute Inspection……… 52
         2. Activity Diagram - Address Issue…………… 53
         3. Activity Diagram - Emergency Inspection….. 53
      7. Class Diagram……………………………………….. 54
      8. Sequence Diagram…………………………………… 55

6.2 Gap Analysis…………………………………………………….. 56