**TABLE OF CONTENTS**

TITLE PAGE i

APPROVAL SHEET ii

ACKNOWLEDGEMENTS iii

ABSTRACT iv

TABLE OF CONTENTS v

LIST OF TABLES vii

LIST OF FIGURES viii

**CHAPTER 1. INTRODUCTION AND BACKGROUND OF THE STUDY**

Overview of Current State of Technology 1

Research Objectives 2

Scope and Limitations 3

Significance of the Study 3

Operational Definition of Terms 4

**CHAPTER 2. REVIEW OF RELATED LITERATURE AND STUDIES**

Related Literature 5

Related Studies 9

**CHAPTER 3. RESEARCH METHODOLOGY**

Environment 11

Research Respondent 11

Research Instrument 11

Data Gathering Procedure 12

Treatment of Data 13

**CHAPTER 4. CONCEPTUAL FRAMEWORK** Software and Programming Language Used 16

System Development Model 18

**CHAPTER 5. ANDROID BASED PASSENGER’S MONITOR**

System Overview 20 System Objectives 21

System Scope and Limitation 22

Physical Environment and Resources 23

Developer Side System/Application 23

Use Case Modelling 25

Class Diagram 39

Activity Diagram 40

**APPENDICES**

1. Transmittal Letter 69
2. Data Gathering Instrument
   1. Interview Questionnaire Guide 70
   2. Interview Questionnaire Guide 71
   3. Survey Questionnaire 72
3. Data Gathering Results 73
4. Curriculum Vitae 76
5. Bibliography 79

**LIST OF TABLES**

Table 5.1 Admin Login Use Case Scenario 28

5.2 Admin Add Driver Use Case Scenario 28

5.3 Admin View Driver’s Details Use Case Scenario 29

5.4 Admin Update Driver’s Details Use Case Scenario 29

5.5 Admin Delete Driver Use Case Scenario 30

5.6 Admin View Reports Use Case Scenario 30

5.7 Admin Logout Use Case Scenario 31

5.8 Driver Login Use Case Scenario 33

5.9 Driver Passenger Booking Use Case Scenario 33

5.10 Driver Start/End Trip Use Case Scenario 34

5.11 Driver Add Passenger Use Case Scenario 34

5.12 Driver View Booking Details Use Case Scenario 35

5.13 Driver Drop-off Passenger Use Case Scenario 35

5.14 Driver Logout Use Case Scenario 36

5.15 Passenger Input Passenger Details Use Case Scenario 37

5.16 Passenger View Available Van Use Case Scenario 37

5.17 Passenger Book Van Use Case Scenario 38

5.18 Passenger Cancel Booking Use Case Scenario 38

**LIST OF FIGURES**

Figure 4.1 Conceptual Framework 15

4.2 Android Based Passenger’s Monitor

Development Life Cycle 16

5.1 Admin Use Case Diagram 25

5.2 Driver Use Case Diagram 25

5.3 Class Diagram 39

5.4 Admin Login Activity Diagram 40

5.5 Admin Add Driver Activity Diagram 41

5.6 Admin Delete Driver Activity Diagram 42

5.7 Admin Update Driver Details Activity Diagram 43

5.8 Admin View Driver Details Activity Diagram 44

5.9 Admin View Report Activity Diagram 45

5.10 Admin Logout Activity Diagram 46

5.11 Driver Login Activity Diagram 47

5.12 Driver Passenger Booking Activity Diagram 48

5.13 Driver Start and End Trip Activity Diagram 49

5.14 Driver Add Passenger Activity Diagram 50

5.15 Driver View Booking Details Activity Diagram 51

5.16 Driver Drop Off Passenger Activity Diagram 52

5.17 Driver Logout Activity Diagram 53

5.18 Passenger Input Passenger Details Activity Diagram 54

5.19 Passenger View Available Van Activity Diagram 55

5.20 Passenger Book Van Activity Diagram 56

5.21 Passenger Cancel Booking Activity Diagram 57

5.22 Admin Login Sequence Diagram 58

5.23 Admin Add Driver Sequence Diagram 58

5.24 Admin View Driver Details Sequence Diagram 59

5.25 Admin Update Driver Sequence Diagram 59

5.26 Admin Delete Driver Sequence Diagram 60

5.27 Admin View Report Sequence Diagram 60

5.28 Admin Logout Sequence Diagram 61

5.29 Driver Login Sequence Diagram 61

5.30 Driver Passenger Booking Sequence Diagram 62

5.30 Driver Start and End Trip Activity Diagram 63

5.31 Driver Add Passenger Activity Diagram 64

5.32 Driver View Booking Details Activity Diagram 64

5.33 Driver Drop Off Passenger Activity Diagram 65

5.34 Driver Logout Activity Diagram 65

5.35 Passenger Input Passenger Details Activity Diagram 66

5.36 Passenger View Available Van Activity Diagram 66

5.37 Passenger Book Van Activity Diagram 67

5.38 Passenger Cancel Booking Activity Diagram 67