SUPERVISOR'S APPROVAL

MOBILE APPLICATION FOR BAGGAGE TRACKING IN AIRPORT USING RFID

BY

FUAD NAQUIB BIN SHAMSUDIN

This thesis was prepared under the direction of thesis supervisor, Puan Zarina bt Zainol. It was submitted to Faculty of Computer and Mathematical Sciences and was accepted in partial fulfilment of requirements for the degree of Bachelor of Computer Science (Hons) Data Communication and Networking.

Approved by

Zarina bt Zainol

Thesis's Supervisor

JUNE 26, 2015

ACKNOWLEDGEMENT

Alhamdulillah, praise and thank to Allah because of His Almighty and His utmost blessings, I was able to finish this research within the time duration given. Firstly, my special thanks go to my supervisor, Zarina Binti Zainol for guidance to complete ours project hence we are able to fulfil our aim for the project.

Special appreciation also goes to my beloved parents
Binti Haron for their love and supports to help me to complete my degree.

ABSTRACT

When it comes to travelling by flight, passengers always make sure that their luggage is checked in and safely arrived at their destination. As most of airports are still using barcode-based system in baggage management, there are a room for mistakes to happen especially when it comes to tagging. The use of barcode scanning method, the possibility of missing or misplaced baggage is quite high. Obviously it will affect the passengers and the airports management. Therefore we propose a RFID-based baggage tracking system that could improves the way they handling baggage and minimize cases of missing baggage. Besides handling the passenger baggage, the system can also store particular information so it will be useful in finding missing baggage. There will be few changes in terms infrastructure but still using the same concept in handling baggage with extra features to be developed. It is hoped that the suggested system may improve the current baggage handling system in airports.

TABLE OF CONTENTS

CONTENTS

PAGE

SUPERVISOR'S APPROVAL

DECLARATION

ACKNOWLEDGEMENT

ABSTRACT

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLE

LIST OF ABBREVIATIONS

CHAPTER ONE: INTRODUCTION

1.1 Background of Study

1.2 Problem Statement

1.3 Objective

1.4 Project Scope

1.5 Research Significant

CHAPTER TWO: LITERATURE REVIEW

2.1 RFID Component

2.2 Technical View

CHAPTER THREE: METHODOLOGY

3.1 Introduction

3.2 Project Methodology

3.2.1 Implementation

3.3 Design

3.3.1 Context Diagram

3.3.2 Data Flow Diagram

3.3.3 Use Case Diagram

3.3.4 Entity Relationship Diagram

3.4 Software Requirement

3.4.1 System Development

3.4.2 Challenges

CHAPTER FOUR: FINDINGS AND RESULT

4.1 Response Result

4.1.1 Questionnaires

4.1.2 Interviews

4.2 Analysis

CHAPTER FIVE: CONCLUSION

REFERENCES

APPENDIX