

Universiti Teknologi MARA

**Integrated Preliminary Maintenance
System
(Costal Camera)**

Azra Binti Mohamed

**Thesis submitted in fulfillment of the requirements for
Bachelor of Science (Hons) Data Communications and
Networking, Faculty of Computer and Mathematical
Sciences**

July 2015

ACKNOWLEDGMENT

Alhamdulillah, praise and thank to Allah SWT because of His Almighty and His utmost blessings, I was able to finish this project within the time duration given. Firstly, my special thanks to my lecturer and supervisor, Madam Siti Arpah Ahmad for her patient, guidance, opinion and support for the entire semester.

Special appreciation also goes to my beloved family especially to my mother Saodah Ismail and my father Mohamed Ismail, being patient with me sometimes rarely able to meet and spend time with them because of busy working and studying. To my dearest sister thank you for your support and understanding.

Last but not least, I would like to give my gratitude to my bosses, colleagues also friends, for their supports, words of encouragement when I feeling down and their prayer to see me success in studies, work and life. To my best friends thank you for all your patient and cares toward me and my project.

ABSTRACT

Integrated Preliminary Monitoring System is a new way to monitor the network without boundaries. Combination between android push notification technologies and Google Cloud Messaging (GCM) will make the monitoring of the network becomes easy. Based on random interviews with 30 workers, they prefer to use android application with notification alert to do monitoring. User with Android Smartphone must download the application to receive notification or an alert notification if the network down. The information user will receive are type of equipment and location, IP Address, date and time occurs. This will reduce down time of network occurs and user can take immediate precaution.

TABLE OF CONTENTS

CONTENTS	PAGE
SUPERISOR'S APPROVAL	ii
DECLARATION	iii
ACKNOWLEDGEMNT	iv
ABSTRACT	v
TABLE OF CONTENTS	vi - viii
LIST OF FIGURES	ix - x
LIST OF TABLE	xi
LIST OF ABBREVIATIONS	xii
 CHAPTER ONE : INTRODUCTION	
1.0 Introduction	1 - 2
1.1 About Malaysia Meteorological Department	2 - 3
1.2 Location of the costal camera throughout Malaysia	3 - 4
1.3 Problem Statement	4 - 5
1.4 Project Objective and Target	5
1.5 Project Scopes	5
1.6 Significant of the project	6
 CHAPTER TWO : LITERATURE REVIEW	
2.0 Introduction	7
2.1 Comparing to similar system or job scope	7 - 14
2.2 Application Alert Verses SMS Alert	14
2.3 Definition of Terminology	15
2.3.1 IP Address	15

CHAPTER 1

INTRODUCTION/BACKGROUND

1.0 Introduction

In the era of 2000 mobile phone are not made only for call and sending messages. The function of a phone has evolved. It is like bringing a very small computer by hand everywhere. There are lot of function can be applied in Smartphone. Smartphone become part of our life. From conducting daily life to business people must have Smartphone. There are no different age can be classified when it comes to Smartphone. People are not using Personal Computer anymore. Everything has to be done by Smartphone.

Complement to a Smartphone is an application or apps. Manufacturers are trying to fulfill customers need by produce more attractive application. Peoples have many choices to choose application from banking, social, security, news, games and many more. Due to high demand for application, users start to develop their own apps and sharing it all over the world.

For final year project, it must be based on the latest technologies. Various opportunities could be created from this encouraging development. As we all know maintaining the network is important because many organization, company and people rely on computer network. Unstable network will give bad impression to the equipment and to the company. Therefore, we take this opportunity to developing Smartphone-based application for maintenance sector. As far as we known maintenance sector is very large scope to implement. Target of this project is base on networks failure. Not mane developer developing an application for network monitoring. Developing application that can alert user when network is down will be popular not among company but also good for personal use.