

INTERNET OF THING BASED FOR MONITORING BASE STATION LOCATION

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ABSTRACT

Nowadays, most people own at least one android smartphone. This has shown that most people are following the latest trend in daily life. An android smartphone can be the most useful tools and assist us in daily life work. There are thousands of apps in a smartphone that can be used to do any work related. A smartphone also known as mobile phone or often called as cell phone because of the structure of the wireless networks in which mobile phone operate. The network is divided into cells where each phone is connected to exactly one cell at any given time. Each cell is operated by a cell towers on which wireless transceiver base station. A base station is one of the important components in communication system. Without it, the transmission of the signal system cannot work, and we cannot use our smartphone to do job. An organization will be assigned to install the base station by the Malaysian Communications and Multimedia Commission. Usually they will install the base station referred to the location of the installed base station. The number of base stations in one region can determine the strength of signal in that area. The more base station in one area, the stronger the signal provided. But it can increase the rate of interference of the signal if the base station is located too near to each other. If the base station located too far from each other, the wireless signal transmit from a cell phone in that region would be not strong enough to bypass the signal to other cell phone through the base station. Hence, a method of developing an android apps is introduced in this project to display the location of base station that has been installed before in a region to help the person who install the base station to know the exact location of the base station before they install the new one. The app is created using Android Studio software which is a free source to develop an android app. This technique is easy to use because user do not have to move around to find the location to install the new base station. This technique also did not need high cost to be implemented. The result from this technique will shows the location of the base station and display them in google maps. In this project, I have chosen to show the location of base station in certain region in Kuala Lumpur.

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TABLE OF CONTENTS

	Page
AUTHOR'S DECLARATION	ii
ABSTRACT	iii
ACKNOWLEDGEMENT	iv
TABLE OF CONTENTS	v
LIST OF TABLES	vii
LIST OF FIGURES	viii
LIST OF ABBREVIATIONS	ix
CHAPTER ONE INTRODUCTION	1
1.1 Research Background	1
1.2 Problem Statement	3
1.3 Objectives	3
1.4 Scope of Work and Limitations	4
CHAPTER TWO LITERATURE REVIEW	5
2.1 Introduction	5
2.2 Project review	5
2.3 Review on related project	6
2.3.1 Smart Way to Track the Location in Android Operating System	6
2.3.2 Web Mapping with Google Maps Mashup Overlaying Geodata	7
2.3.3 Building Application for the Android OS Mobile	8
2.3.4 Estimation of Exclusion Zones for Base Station Antennas in Wireless Communication Systems	8
2.3.5 Inter-App Communication between Android Apps Developed in App- Inventor and Android Studio	9
2.3.6 Base station location optimisation in LTE using Genetic Algorithm	10
2.4 Summary	11

CHAPTER THREE RESEARCH METHODOLOGY	12
3.1 Introduction	12
3.2 Software Design	12
3.3 Codes	14
3.4 Flowchart	17
3.4.1 Flowchart of project development	17
3.4.2 Flowchart of the Android apps process	19
CHAPTER FOUR RESULTS AND DISCUSSION	21
4.1 Introduction	21
4.2 Menu selection view	21
4.3 Single base station view	23
CHAPTER FIVE CONCLUSION AND FUTURE RECOMMENDATIONS	24
5.1 Conclusion	24
5.2 Future recommendations	24
REFERENCES	25
APPENDICES	27