

WIRELESS SUPPORT SYSTEM

By

NOOR EZRI BIN MOHAMAD NOOR

2003284843

**BACHELOR OF SCIENCE (HONS) DATA COMMUNICATION AND
NETWORKING**

**A THESIS SUBMITTED IN PARTIAL FULFILLMENT FOR THE BACHELOR OF
SCIENCE (HONS) DATA COMMUNICATION AND NETWORKING**

**FACULTY OF INFORMATION TECHNOLOGY AND QUANTITATIVE SCIENCE
UNIVERSITI TEKNOLOGI MARA (UiTM)**

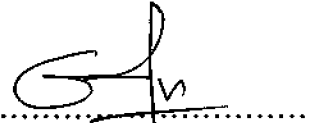
SHAH ALAM

APRIL 2005

DECLARATION

This is to certify that I am responsible for the work submitted in this project that the original work is my own except as specified in the references and acknowledgement. The original work contained here in have not been taken or done by unspecified source or persons.

4 April 2005



Noor Ezri bin Mohamad Noor
(2003284843)

ABSTRACT

Wireless Technology is a new way of networking computers together without the limitations and costs of a wired network. This is a rapidly changing world that is the home turf of people who love technology. Nowadays wireless technologies become one of the most important in the network area. Mobile communications and GPS (Global Positioning System) technology has now evolved to the point where these technologies can be exploited to provide field user with up to date spatial information for any given location. This paper proposes an application that uses wireless communication to gather data. The application is called the Wireless Support System and designed to work as a position locator to track location. The user is able to know their location by download the maps using a mobile phone. The maps store at GPS TrackMaker database and should has a link with GPRS server before it able to download on a mobile phone The system acknowledges the position data request and gathers these data from a Global Positioning System.

TABLE OF CONTENTS

APPROVAL	ii
DECLARATION	iii
ACKNOWLEDGEMENT	iv
ABSTRACT	v
TABLE OF CONTENTS	vi
LIST OF TABLES	ix
LIST OF FIGURES	x
LIST OF ABBREVIATIONS	xii

CHAPTER 1: INTRODUCTION

1.1	PROJECT OVERVIEW	1
1.2	PROBLEM STATEMENT	2
1.3	PROJECT OBJECTIVE	3
1.4	PROJECT SCOPE	4
1.5	PROJECT SIGNIFICANCE	5
1.6	PROJECT FRAMEWORK	5
1.7	PROCESS OF WIRELESS SUPPORT SYSTEM	6
1.8	CONCLUSION	6

CHAPTER 2: LITERATURE REVIEW

2.1	INTRODUCTION	7
2.2	WIRELESS TECHNOLOGY	7
2.3	CELLULAR TELEPHONE SYSTEM	9
2.4	WIRELESS APPLICATION PROTOCOL (WAP)	11
2.5	WAP PROTOCOL STACK	13
2.6	HOW WAP WORK?	15

2.7	LIMITATION OF WAP	16
2.8	GLOBAL POSITIONING SYSTEM (GPS)	17
2.9	WAP TECHNOLOGY AND GPS	18
2.10	WIRELESS MARKUP LANGUAGE (WML)	20
2.11	THIRD GENERATION WIRELESS NETWORK (3G)	21
2.12	GENERAL PACKET RADIO SERVICE (GPRS)	21
2.13	GEOGRAPHICAL INFORMATION SYSTEM (GIS)	22
2.14	REVIEW OF THE RELATED PROJECT	23
2.15	CONCLUSION	30

CHAPTER 3: PROJECT METHODOLOGY

3.1	PHASE 1 – INFORMATION GATHERING	33
3.2	PHASE 2 – PLANNING AND DESIGN	33
3.2.1	Hardware Requirement	34
3.2.2	Software Requirement	34
3.3	PHASE III – INSTALLATION AND CONFIGURATION	36
3.3.1	Openwave Phone Simulator 7.0 Installation	36
3.3.2	PHP Triad 2.2 installation and configuration	37
3.3.3	Macromedia Dreamweaver MX 2004	38
3.4	PHASE IV – DEVELOPMENT	39
3.5	PHASE V – TESTING AND EVALUATE	40
3.6	CONCLUSION	40

CHAPTER 4: APPLICATION ARCHITECTURE

4.1	SYSTEM CONCEPT	41
4.2	OVERALL SYSTEM ARCHITECTURE	42
4.3	USER INTERFACE DESIGN	43
4.4	GPS MAP	44
4.5	GPS TRACKMAKER DATABASE	45