

DYNAMIC CARPOOLING SYSTEM FOR UUM

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DYNAMIC CARPOOLING SYSTEM FOR UUM

A thesis submitted to the Graduate School in partial fulfillment of the requirements for the degree Master of Science (Information Technology)
Universiti Utara Malaysia

By

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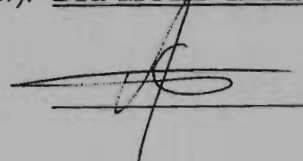
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ABSTRACT

With the increasing of energy resource's prices these days, the demands of energy resources already decreased in most countries of the world in general especially benzene resource, beside that rural areas in various countries suffers from lack of transportation services. Therefore Dynamic Carpooling by using mobile phone is proposed to overcome such problems, by allowing a many passengers and drivers to be matched with each other automatically and instantly. By using mobile phone will create automatic process in which drivers and passengers are matched to a shared ride wherever and whenever they need it, In fact during this work the dynamic system is going to be available in UUM, where the students and staff are going to eliminate from transportation problems inside the campus by using their mobile phone, also it is will be as a social-networking service.

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Contents

PERMISSION TO USE	i
ABSTRACT	ii
ACKNOWLEDGEMENT	iii
TABLE OF CONTENTS	iv
LIST OF FIGURES	vi
LIST OF TABLES	viii
LIST OF ABBREVIATIONS	viii

Chapter 1

INTRODUCTION

1.1 Introduction	1
1.2 Problems Background	2
1.3 Problem Statements	2
1.4 Research questions	3
1.5 Research Objectives	3
1.6 Scope of The Study	3
1.7 Significance of the Study	4
1.8 Organization Of The Report	4
1.9 Conclusion	5

Chapter 2

LITERATURE REVIEW

2.1 Introduction	6
2.2 Carpooling	7
2.3 Dynamic carpooling	9
2.4 Oil price's Impact on Transport	10
2.5 Mobile Applications	13
2.6 Carpooling Trust	15
2.7 Related work	15
2.8 Conclusion	17

Chapter 3

DEVELOPMENT METHODOLOGY

3.1 Introduction	19
3.2.1 Phase 1: Awareness Of The Problem	20
3.2.2 Phase 2: Suggestion	21
3.2.3 Phase 3: Development	21
3.2.4 Phase 4: Evaluation	21
3.2.5 Phase 5: Conclusion	21

Chapter 4

SYSTEM DEVELOPMENT AND PROTOTYPE

4.1 Dynamic Carpooling System for UUM Specification	22
4.1.1 Lists of Requirements	24
4.1.1.1 Functional Requirements	24
4.1.1.2 Software Requirement	25
4.2 System Design	25
4.3 Use Case Specifications	26
4.3.1 Description of the Passenger Part of Use Case	26
4.3.2 Description of the Driver Part of Use Case	31
4.4 Sequence Diagrams	35
4.5 Class Diagrams	39
4.6 System Framework	40
4.6.1 Dynamic Carpooling System Users	40
4.6.2 System Service Provider	40
4.6.3 System Trust Infrastructure	40
4.7 Dynamic Carpooling System Design	42

Chapter 5

DISCUSSION OF RESULTS

5.1 Introduction	60
5.2 System Evaluation	60
5.2.1 Usability Test for the Dynamic Carpooling Prototype	60
5.2.1.1 Data Analysis	60
5.3 Conclusion	64

Chapter 6

CONCLUSION AND RECOMMENDED FURTHER STUDY	
6.1 Introduction	65
6.2 Contribution of Study	65
6.3 Problems and Limitations	66
6.4 Recommendations and Future Work	67
6.5 Conclusion	67
References	68
Appendix (A)	72
Appendix (B)	76

List of Figures

<u>Figure Number</u>		<u>Page</u>
Figure 2.2	Passengers Driven to Carpooling	9
Figure 2.2	Marginal Travel Demand Growth under Average Fuel Price 2007	11
Figure 2.3	The New Generation of Mobile Phone	14
Figure 2.4	Main System Interface.	17
Figure 3.1	The General Methodology of Design Research.	20
Figure 4.1	Dynamic carpooling overview.	23
Figure 4.2	Main Use Case Diagram	26
Figure 4.3	Login UseCase Diagram	26
Figure 4.4	Information Uploads UseCse Diagram	28
Figure 4.5	Search Trip UseCase Diagram	29
Figure 4.6	Driver Login UseCase Diagram	31
Figure 4.7	Information Update UseCase Diagram	32
Figure 4.8	Getting email UseCase Diagram	33
Figure 4.9	Login Sequence Diagram	35
Figure 4.10	Information Update Sequence Diagram	36
Figure 4.11	Searching Trips Sequence Diagram	37
Figure 4.12	Offers Tips Sequence Diagram	37
Figure 4.13	Getting Trips operation Sequence Diagram	38
Figure 4.14	Main Class Diagram	39

Figure 4.15	System Framework	41
Figure 4.16	Main System Page	42
Figure 4.17	Driver Page	43
Figure 4.18	Personal details Operation.	44
Figure 4.19	Add New Carpool	45
Figure 4.20	Add New Carpool	45
Figure 4.21	Add New Carpool	45
Figure 4.22	Add New Carpool	45
Figure 4.23	First Date Options	47
Figure 4.24	Second Date Option	48
Figure 4.25	Message Added successfully	49
Figure 4.26	Logout Option	50
Figure 4.27	Delete option	51
Figure 4.28	Update option	51
Figure 4.29	Login as Passenger	52
Figure 4.30	Passenger Page	53
Figure 4.31	Carpooling Search	54
Figure 4.32	Trip Information v	55
Figure 4.33	Join Trip	55
Figure 4.34	Getting Email	56
Figure 4.35	Selected Trips	57
Figure 4.36	Cancellation Trip	58
Figure 4.37	Getting Email of Cancellation	59
Figure 5.1	Q1's Statistics	62
Figure 5.2	Q4's Statistics	63
Figure 5..3	Q7's Statistics	64

List of Tables

<u>Table Number</u>	<u>Name of table</u>	<u>Page</u>
Table 2.1	Difference between traditional and dynamic carpooling . . .	10
Table 2.2	Least oil-intensive public transport in different densities . . .	12
Table 2.3	Average of Increase in Oil Prices in Malaysia	13
Table 4.1	Functional Requirements	24
Table 5.1	Descriptive Statistics	61

List of Abbreviations

UUM	Universiti Utara Malaysia
ASP	Active Server Page
UML	Unified Modeling Language
Q1, Q2, Q3	Question 1, 2, 3

CHAPTER 1

INTRODUCTION

1.0 Introduction

Transportation issues in rural areas of any country in the world vary according to the ranges in the number of population. Transportation services are among the challenges faced by people in the rural area. These include lack of services, limited availability of transportation facilities.

In rural area in Malaysia, as is the case of other countries' rural areas, lack of transportation services is among the challenges. The mobility and access to basic services is considered the most important thing among human's needs. On other hand, enhance rural transportation services can be a significant factor for sustainable economic development and to improve social-network. Indeed these days with observed resources prices increasing, the usage of own car has decreased. In Malaysia the prices has increased generally and markedly, beside that the cost of transportation increased, where the people should work only to pay for the fuel (Joshua, Yarun & Satyendrae , 2007).

The increased human mobility combined with high prices of resources like fuel has led people to reduce their cars usage, and look for alternative transportation options which provide solution for transportation costs. According to Helen (2005), the mode of travel does not necessarily need to be not motorized or classical, but should be suitable with many of factors and the most important one is cost-effective. Carpooling has for a long time been an option to help the transportation sector to overcome many of challenges, where during such method of transport we can overcome transportation challenges and can save our money through sharing the

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