

DYNAMIC CARPOOLING SYSTEM FOR UUM

OMAR MOHAMMAD ALHARBI

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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

OMAR MOHAMMAD ALHARBI (800336)

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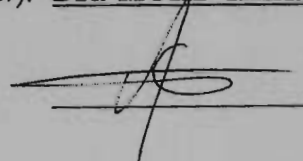
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Nama Penyelia Utama
(Name of Main Supervisor): **DR. NOR LAILY HASHIM**

Tandatangan
(Signature) :  Tarikh (Date) : 23-11-08

Nama Penyelia Kedua
(Name of 2nd Supervisor): **DR. MOHD KHAIRUDIN KASIRAN**

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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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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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