

HIGHER TECHNICAL INSTITUTE

COURSE IN COMPUTER STUDIES

DIPLOMA PROJECT

CAR POOLING SYSTEM

CS/370

PANAYIOTIS MOISEOS

MARIOS SHIATIS

JUNE 2007

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(PROJECT REPORT)

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6th JUNE 2007

HIGHER TECHNICAL INSTITUTE	PROJECT NO 3694
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HIGHER TECHNICAL INSTITUTE

Car Pooling System

Type of project: Double

Project Report submitted by: PANAYIOTIS MOISEOS
MARIOS SHLATIS

Project Supervisor: Mr. PAVLOS PANAYI

Project external assessor:

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Summary

The project that we chose to do is a car pooling website. The service offered is matching people who live or work nearby for the purpose of using for example one car instead of two to go to the same place.

The user must first register to be able to use the website's service. After he registers he can search for other matching members and contact them so that they will come to an agreement about the way they will car pool.

The user will also be able to change his/her personal details (his/her profile). In the database there is stored information about the user's name and surname, other personal details and also about his/her home address, occupation address, and the time he/she arrives to and departures from work. By changing these last elements, a user is able to find different members for different areas of the island.

The user must be a registered member and logged in to have the ability to take advantage of the offered service. After he/she is done he/she can log out of the system by following the appropriate link.

For the development of the source code of our project we installed Java Development Tool 1.6.0_01. We used the free web server application Tomcat provided by Apache Foundation to run our servlets. The version of Tomcat used is 5.0.28. We used a free Database Management System called MySQL to create and manipulate our database. The version of the MySQL Server that we used is 5.0.

Introduction

Each morning, thousands of cars drive to the city centre from the suburbs and then, in the afternoon, drive back. The majority of these vehicles carry a single passenger to work. Additionally, parents drive their children to and from school and private lessons. The idea of car-pooling is to provide transportation on demand for registered users who will have to order it through the proposed web site. If the demand for vehicles outnumbers the supply, then private minibuses will be called in. Here is a hypothetical scenario: Mr. X lives in the same neighbourhood as Mr. Y, in Latsia. They also work in the city centre, Mr. X at the ministry of finance and Mr. Y sells sandwiches nearby. If they both register for car-pooling, the system will identify that they can share a car because travel times, departure point and destination match. They will be given the option to share their cars or be driven to work.

The system will be implemented as a webpage and security will be considered. The user will register, logon and search for other matching members. The users will also have the ability to contact the administrators for any questions, suggestions or comments that they have. We will try to make as user friendly as possible to help beginners get around the website without problems and faster.