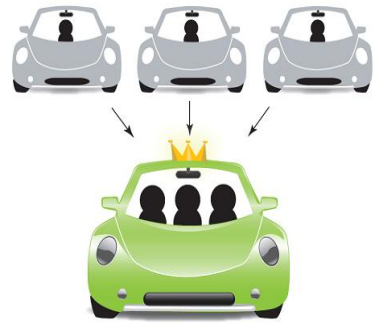


Software Engineering CS 360



Car-Pooling : A SarSabz LUMS Initiative

Group Members (Group 5):

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|-------------------------|---------------------|
| <i>Hasan Abbas</i> | <i>2014-10-0059</i> |
| <i>Muhammad Wajahat</i> | <i>2014-10-0128</i> |
| <i>Luqman Ghani</i> | <i>2014-10-0180</i> |
| <i>Usman Zaheer</i> | <i>2014-10-0222</i> |

Problem Domain/Context:

LUMS is home to more than a thousand students, many of whom are hostellites. Although living in hostels brings its independence but it has its own limitations as well, especially when students need to go out of the university to get any work done such as to buy books or conduct any research trips across the city or even outside of it.

Lack of transport facilities like buses and the overcharging of the rickshaw services outside LUMS highlights great need to appeal to the students who do have some form of conveyance in the university and also need to do similar work as their peers.

Motivation:





Keeping in mind the rising fuel and transport prices, there is a great need to bring efficiency in our transport means as well. Consequently, Car-Pooling is an idea which is quickly gaining popularity in different parts of the world and we would like to introduce such a pilot system for the LUMS community as well which can help more students as they can share costs of fuel to go to mutually agreed places and get their work done with the least amount of cash spent, making it an economic solution to our rising fuel/everyday cost prices.

Plan of Work:

We plan to do our work in PHP with Oracle and launch a website where everyone from the LUMS community can join in and propose a plan and add specifications to their plan.

NOTE: We plan to undertake extensive surveys from the LUMS community via email or personalized interviews to gain more insight on what features are most sought after by the majority and we aim to target those to be an integral part of this project.

Features:

-  Cost options to be chosen by the person with the car (it can be per seat or per trip).
-  A user login interface so that users can log in to their accounts (LUMS community).
-  Users can access forms to create new car pooling plans and give their specifications.
-  Add a page where a user can search for rides and register for them.

Some problems:

There are some inherent problems in the car pooling system that we would like to solve in our project:

- ❖ Reliability – The system will only be successful if there are sufficient users using the applications and so we will try to make it easy, usable and accessible to everyone in the LUMS community.
- ❖ Riding with strangers - Concerns over security have been an obstacle to sharing a vehicle with strangers. Although the restricting the use of this application to LUMS student, staff and faculty will solve this problem, however, there will be a preferences option for choosing preferences (student, staff, faculty / male, female / batch, school etc.).
- ❖ Overall efficacy – People will not tend to use the application without any incentives, so we will try our best effort to make it fun, interactive and add some incentives like Hall Of Fame (users with highest rides given etc.).