

Project Proposal

Project Information

Project: C-Pool : Car Pool Application

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Project Time-frame: 2nd Semester, 2011

Summary: The application will allow users of a company network to suggest and arrange for before and after work carpools.

Background and Motivation

What is the setting and history behind this project?

Many workers are using their cars to arrive work place. Many large companies arrange for transportation to and from the working place to reduce the use of personal cars. The companies would like to reduce the use as much as they can.

What is the problem to be addressed?

Many times workers avoid using the company transportation systems in order to be more flexible when they leave work. (earlier or later then the arranged drop home arrangements) The companies are not able to offer such flexibility under reasonable budget.

Why is this problem worth solving or worth solving better?

Companies worldwide are facing the Carbon reduce challenge, and uses it to promote their business. A solution that will allow companies to define themselves as Carbon Reducing Company will create a good impression for the company, and worth investing.

Goal

What is the goal of this project?

This project will produce a web based application to allow drivers and passengers to arrange for car pools, according to the departure or arrival destination.

What are the defining features and benefits of this product?

- Easy to use GUI
- Chat option to discuss final details as time and place.

- Easy to maintain data base

Scope

The carpool application will include the following:

- Web Based application (C# ASP .NET SQL Server communication)
- Driver and passenger GUI (C# ASP.NET forms)
- Chat tool (ASP.NET DigiOz Simple Chat)
- SQL Server Data Base

In Scope	Out of Scope
Building a web application for use with standard web servers and application servers	Building a new web server or application server
Working the most popular browsers (IE7,8/Mozilla/Chrome)	Working with uncommon or outdated browsers
Security in the form of user accounts, passwords, and permissions	Special security against hackers. Finding or patching security holes in existing software components.(should be used in internal network)
Login GUI (include registration for common trip details)	No restriction on name and password
Driver GUI will include: Trip details and free seats. Chat history with interested passengers Approved passengers for current trip	History will be kept only for an hour after actual trip was planed
Passenger GUI will include: Matched trip found message Approval request from driver Chat history with driver	History will be kept only for an hour after actual trip was planed
SQL Server DB to save and organized all data required: users info, trips info, and chat history	Advanced Security and protection.

In the future we will be able to integrate Google API for better matching of destination in walking distance.

A website to calculate an average Carbon Reduced (per Driver/trip) can be easily implemented if the company would like to encourage workers to use the system.

Risks and Rewards

What are the main risks of this project?

1. Development time should be enough unless we face unexpected delays with developing one of the system's parts
2. Experience issues with chat option. In this case we will look for an application to be used in parallel with our tool allowing user to choose their preferred way of communication (Phone, Email or Other Chat programs)

What are the main rewards if this project succeeds?

If we accomplish the elements of our plan, our tool will save workers time and unwanted emails, allowing them to efficiently gain trust in a successful carpool system, and at the end allow their company to reduce carbon production.