**ABSTRACT**

This project is entitled as “**Advanced** **Car pooling Application**” is developed as a mobile application using client server tools programs like Asp.net as front end, C# as coding language and SQL server as backend.

The main objective of this project is to reduce the travelling cost while travelling through private vehicles like car, cabs and etc from the same institute. In this fast life, individuals find difficult to interact with people due to lack of time even though they belong to same place as the destination. Still many people travelling alone in a car for long distance in the same institute. This makes more expensive for the traveler. According to the survey, group traveling will reduce the cost of travel, provides more secured, fuel efficiency, less pollutes the environment and etc. Group travel will give us more advantages than single travel.

In order to connect people, this application is developed to be connected with those people who are travelling to the same destination or via destination. Also one should contact the people in their circle directly if they want to travel together with them. This application contains two medium namely provider and seeker. Providers are the one who initiate the travel and fix the destination and seekers are the one who accepts to travel with the provider. This process made more secured, like user can search:

* Gender wise (More safe for ladies)
* Age wise (Won’t make travel bore)
* Department wise (Can discuss something interesting)
* Staff or student wise (Can make trip useful)

Here our application mainly concentrates on simplicity and security and how to travel efficiently using multiple references. Rating will be provided to the provider, if he provider is having less or worst rating in the history then seeker can avoid travel with them. After the completion of the travel, both provider and seeker can rate about their travel and about the person. This application also allows the users to provide the feedback about the drivers which be useful for the forthcoming users to select the drivers accordingly. Also cancellation of trip is available for both provider and seeker.

According to the technology, client server technology has been implemented with centralized server and centralized data sharing.

**Modules**

* Provider
* Seeker
* Travel Confirmation
* Manage Details and comments
* Mobile application and server

**Module Description:**

**Provider:**

Sign up is the initial process of the project. Here the provider can create the free sign up with their personal details and create the travel details like from, via and to destination. After creating the destination the provider need to add their license details, vehicle type and number of members going to travel with him.

**Seeker**

The same process is for seeker. Seeker need to sign up with their personal details. Seeker can search for the travel destination. A multi option list box has been provided to seeker for selecting the source and destination also the date of the travel. Once the seeker selected the source and destination, they can see the provider’s basic details like name and car details. A request will be sent to the provider from the seeker. Now provider can see the seeker’s request.

**Travel Confirmation**

The travel confirmation will be done by the provider only. The provider can view the seeker’s full details after the confirmation only. After the confirmation the provider and seeker can view the full details. This option will be enabled after the confirmation only. Once the travel got confirmed the search details will disable for other search. So that provider will not disturbed from various unwanted requests.

**Manage Details and comments**

This module has more details like add, update, view and delete. In case the provider cant able to travel on the same day means, he can update the details. If seeker is willing they can travel in the other day. Else the provider can delete the posted travel details permanently. Commenting options available in this module. Using this option provider or seeker can view the corresponding comments of the user before the travel. Comments can be viewed only by selecting the users.

**Mobile application and server**

This is most important module in this project; this is because the updating details will be stored in the centralized server and the sub servers. A prior server will be allocated to access these details. They will be permitted to update the details too. All the centralized details will be available in the web server and mobile application so that user can able to access the server anywhere at any time. This will be more security provided to the centralized server and high bandwidth will be allocated to access more number of users at a same time. A dedicated mobile application is developed using this module.