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Easy Pooling Using Android App

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ABSTRACT: In today's scenario, there are lots of people commuting from place to place. And lot of times, it happens that people travel via car or bike and there is vacant space to take a fellow employee along with him to give a ride. But the problem is there is no easy way to know with how many people a person can share their ride also co-ordination is a huge issue because there is no efforts taken by people to help others by giving them lift, if sharing of ride is done they can save the environment by reducing fuel usage and doing traffic reduction with fewer vehicles etc. The Carpooling is an android application which will provide the advanced searching techniques that can give most relevant results for carpooling in the city. This will be helpful in reducing the costs involved in repetitive or long distance driving by sharing cars. Cost management system approval by the admin. Service provider can provide the cars or two wheeler for customer as per their request. Carpooling is the sharing of car journeys so that more than one person can travel in a car. Carpooling reduces each person's travel costs such as fuel costs, tolls, and can also prove to be an environment friendly measure.

KEYWORDS: Car pooling, Intelligent Transportation Systems (ITSs), knowledge-based systems.

I. INTRODUCTION

An Easy pooling system is an extremely effective way to reduce pollution and the congestion of vehicles on the roads in cities. It also provides an eco-friendly way to travel in both intercity and intracity trips. Easy pooling system is a very effective means to reduce pollution and the vehicles congestion in cities. It also provides an eco-friendly mode to travel. It also provides an opportunity to meet unknown persons. There is an acute problem of traffic on roads these days and the increasing fuel prices add to the misery of daily users of private vehicles. People are migrating from one city to another in search of jobs. This results in increasing population and thus resulting in insufficient transportation facilities. Due to this people prefer to travel by their own vehicle than using public transportation. This leads to problems like increase in number of vehicles, traffic, fuel combustion, heavy cost on resources, parking problems. Using two different vehicles leads to an increase in personal expenses, stress. To overcome this hurdle, a quite different but realistic solution called Easy pooling can be used. Proposed system will be Easy pooling system for riding four wheeler like car and two wheeler using android. This will be helpful in reducing the costs involved in repetitive or long distance driving by sharing cars. To develop system to implement Easy pooling system for riding in the city using four wheeler as well as two wheeler by using android. To reduce costs to riding in city by using sharing cars.

II. MOTIVATION

This system for riding four wheeler like car and two wheeler using android. This will be helpful in reducing the costs involved in repetitive or long distance driving by sharing cars. It is reduced cost, fuel, pollution.

III. LITERATURE SURVEY

Carpooling is the sharing of car journeys so that more than one person can travel in a car. Carpooling reduces each person's travel costs such as fuel costs, tolls, and can also prove to be an environment friendly measure. By sharing cars passengers travelling in same direction can distribute the fare among themselves. [1] During this high fuel prices and high pollution periods, making use of the Easy pooling system is an intelligent decision. We will make an Android based application that will allow passengers to collaborate with other like-minded people and plan out their journey using the easy UI of the app after signing in to it. People will be able to share expenses and not worry about reaching

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late while making new connections.[2] The people registered are allotted specific days on which they should take their private vehicle, so that no inconvenience is caused to its registered passengers for daily commute. Thus the proposed carpooling system will be effective in reducing environment pollution. On making an ANDROID based application that will enable to let people know if vehicles are available for carpool in their desired path they can sign in for it. [3] It reduces your travelling expenses and the need for a car. If you have a car then offering someone a ride might be some extra company for the trip or they might even help contribute to the fuel bill. It improves your travel time (it can sometimes be a little faster on highways because if you have more than one person in the car you can use ,car pooling lanes“ which are generally less crowded.[4] An Carpooling system is extremely effective way to reduce pollution and the congestion of vehicles on the roads in cities. It also provides an eco-friendly way to travel in both intercity and intracity trips. It also provides an occasion to meet new people.As today most people prefer private vehicle to travel due to delay caused in public transport system. Pre-registration ensures that only verified people get into the vehicle so that trust can be established. Thus the proposed carpooling system will be effective in reducing environment pollution[5]. The proposed application aims at creating a system which will make ride sharing easier. It is a platform which provides a stable dynamic security system for the users and thwarting any chances of fake accounts being created. The other features include traffic analysis for the shortest route, so that the passengers take the least time to reach their destination; a unique profile for every user to make authentication easier; user rating for every car owner so that it is easy for the users in choosing a safe ride; a timeline is provided at the homepage of the application for ease of use; in-app communication system for easier sharing of personal details after the ride is finalized.[6] Carpooling system is very effective mean to reduce pollution and the vehicles congestion in cities. It also provides an eco- friendly mode to travel. It also provides an opportunity to meet unknown person. As mostly people prefer private vehicle to travel other than public transportation due to delay caused by them. As private vehicles provides journey in a luxurious manner. Preregistration makes sure that only pre registered user gets into the vehicle who wants to join ride so that trust can be established.[7]

IV.EXISTING SYSTEM APPROACH

In existing system. customer send request for ride to admin.service provider response to request.It is time coming process,In this waiting time is more for customer side.cost for riding is more proposed system. There is an acute problem of traffic on roads these days and the increasing fuel prices add to the misery of daily users of private vehicles. People are migrating from on city to other in search of jobs. This results in increasing population and thus resulting in insufficient transportation facilities.Due to this people prefer to travel by their own vehicle than using public transportation. This leads to problems like increase in number of vehicles, traffic, fuel combustion, heavy cost on resources, parking problems. Using two different vehicles leads to an increase in personal expenses, stress. To overcome this hurdle, a quite different but realistic solution called Easy Sharing can be used.

V.PROPOSED SYSTEM APPROACH

In Proposed system. customer send request for ride to admin.service provider response to request.It is time coming process,this process is faster than existing system. Easy pooling is the sharing of car journeys so that more than one person can travel in a car.Impact of sharing of car, reduced cost of ride,pollution of air and traffic of city.

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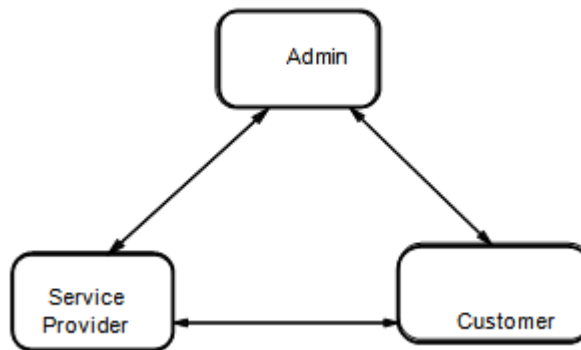


Fig.1 Block Diagram of Proposed System

Explanation:

In the System, Easy Pooling System contain 3 modules Admin, Service Provider and Customer. The modules are as follows,

Admin :-

Admin can add and delete service provider in a system. The cost management system is approval by the admin.

Service Provider:-

At time of registration, service provider add the place in the city which service provider wants to add his cars or two wheelers. Service provider can view the notification coming from a different customers. Service provider can accept the customer request for riding. We also maintain the history of customer which taken ride from a particular service provider.

Customers:-

After login, customer select the destination place for they want to ride .At that destination place service provider response that request, after response from service provider, customer can ride a car or two wheeler. We also maintain the history of service provider which taken ride from a particular customer.

VI.COMPARATIVE RESULTS

In our experimental setup, In table 1, find out number of service provider offered ride and number of user which is actual ride by the car.

Sr.No	Offered Ride	Search Ride
1	15	25

Table1: Ride History

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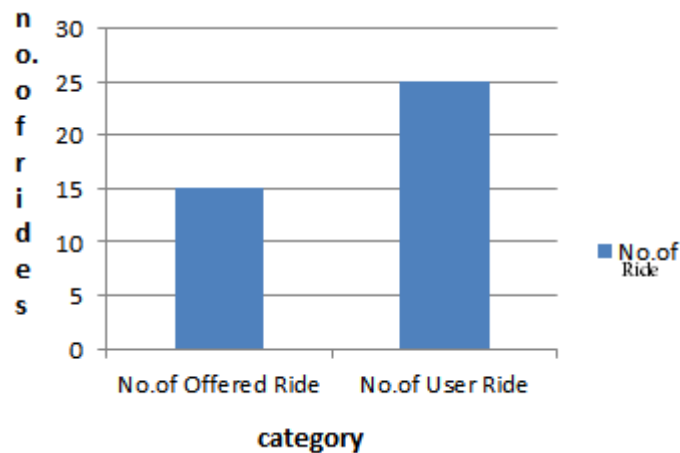
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VIII.RESULTS

From above data, In graph 1, we can see the no. of offered ride by service provide. Search by user ride by the user in the graph.



Graph 1: Ride History

VIII. CONCLUSION

Easypooling system is very effective means to reduce pollution and the congestion of vehicles in cities. It provides an eco-friendly way to travel as well as an opportunity to meet new people. It reduces your travelling expenses and the need for a car. If you have a car then offering someone a ride might be some extra company for the trip or they might even help contribute to the fuel bill. It improves your travel time (it can sometimes be a little faster on highways because if you have more than one person in the car you can use easypooling lanes" which are generally less crowded. It provides you with an alternative and cheap travel option.

VI.FUTURE SCOPE

To develop system to implement Easypooling system for riding in the city using four wheeler as well as two wheeler by using android .To reduce a costs to riding in city by using sharing cars. In Future we can show current location of that person who are get the ride.

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