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We Share App

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Abstract: The concept of sharing app is introduced as innovative approach to the growing different problems like transportation and hotel room booking systems. So, we have implemented this We Share app to solve the most of problems in this sectors. In car ride sharing concept we implemented that user can share their ride with the another user by using this application. However, in to the transportation services We Share app puts innovative sharing concept by book car seat instead of book whole car for particular person. For that using this app user can book a single seat of car in the way of ride sharing instead of booking a whole car. Using this system user can book seat by search a vehicle as his required route by providing required information and Weshare App will be described list of entered route which is added by car owner before travelling which can be added using this application as well. By doing this user will get lift and car owner also get company and some money for his trip. By this concept it reduces the environmental impact of consumption. So it easy for user to travel by using WeShare app.
Same as in hotel, using WeShare App user can also book room and also get room at sharing purpose. So, authorized hotel share their room with user who are facing difficulties to find appropriate hotel room as per their needs by providing sharing room facility with other users by using app. For book bed of the room user simply have to provide details like number of bed user required and after that hotel will manage to provide room to the user. So, We Share App provides more benefits to user and owners for the business aspects this WeShare App is beneficial.

I. INTRODUCTION

A. Phase-I Summary

In the first phase we have first stated problem definition related difficulties that normal people was facing regarding transportation ,hotel room booking. In the current system, most of facilities are available in these, but user has to spend more money and it will consume more time as well . After deciding the problem statement, we have moved towards software requirement specification so by using it we can better understand the problem statement. Based on software requirement specification we have designed system flow that will specify how actually our system should work.
Then we have designed the different diagrams which are useful for our system and to easily understand the flow. We have prepared the UML diagram that are Use case diagram, class diagram, Activity diagram etc. We have prepared different canvas from which we got the ideas for our system. And we also found the patent of our project. So basically, in phase-1 we have decided our problem statement and after that, we gathered all requirement specification and designed our proposed system workflow.

B. Phase –II Summary

As we completed the work up to the designing part of the system in phase-1, the implementation work has been processed. Keeping focusAs we completed the work up to the designing part of the system in phase-1, the implementation work has been processed. Keeping focus towards our backend system for system. We started work on that module using firebase database. We started gaining knowledge regarding android application and firebase database.
After that, we have parallelly started working on the portal. We are going to develop one web-app from where user can join car ride during transportation and also can share room into the hotel. So we referred many online references and also viewed some online videos which helped us to implement successfully our system. After completion of the backend, we tested it in a real-time. And the testing phase is done after the implementation is done.

II. LITERATURE SURVEY

For WeShare app, there are many different approaches are available which are proposed by different authors. We also refer to a various existing system. Here some of the used methods are listed below for the Car Sharing and Hotel room booking.
Zahra Nasreen[1]. Unaffordable housing and inadequate security of tenure in the private rental market are major issues for low-to-middle income households in Sydney. The city has seen an increased competition in the private rental housing market with upward pressure on rents. Shared housing, particularly, via online accommodation listings has emerged as a popular and affordable housing choice for many Sydneysiders..

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Rex S. Toh, Frederick Dekay[2]. With their insistence that guests guarantee room reservations with a credit card, hotel operators have taken great strides to address the problems caused by no-shows, both for individual travelers and group-related guests. Moreover, some hotels are attempting to address the other end of the no-show problem, by imposing early departure penalties. Nevertheless, no-shows and early departures still cost hotels money.

Richard Katzev [3].the concept of car sharing is introduced as an innovative approach to the growing transportation problems of the major metropolitan areas of the United States.

After the history of car sharing in Europe and North America is outlined, three studies of the early adopters of Car Sharing Portland (CSP), the first commercial car-sharing organization in the United States, are reported. Study 1 found that these individuals were primarily motivated to join CSP because of their occasional need for a vehicle, and secondarily because of the financial savings they expected to realize by becoming members.

Study 2 found that the two most important predictors of CSP trip usage were distance to the nearest vehicle station and length of membership, and that both factors had more influence on vehicle owners than on nonowners. Study 3 found that although members did not drive fewer vehicle miles after they joined CSP,

Francesco Ciari, Michael Balmer, Kay W Axhausen [4],Describe how car sharing approach successful in the world. In this participating are allowed to use vehicles from a fleet on an hourly basis. This paper is aimed at renewing the debate on car-sharing and its future development.

There is agreement that car-sharing produces benefits for the transport system, the environment and society. However, as shown in this paper, currently, the scale of such benefits is minimal. This is a reason to attempt the implementation of such a system at a much larger scale.

A car-sharing scheme of this type is outlined and some concepts on which the system would be based are suggested..

Simone Weikl ; Klaus Bogenberger [5].During the last years so-called free-floating Car Sharing Systems became very popular. These systems in comparison to the conventional Car Sharing Systems allow short one-way trips. Today, the spatial distribution of vehicles within free-floating Car Sharing Systems is either self-organized, which means it is only dependent on the customer's demand or in a few cases the positioning is manually controlled by system operators. None of the real-life free-floating Car Sharing Systems has a clear defined relocation strategy or is even online optimized based on the current demand.

Robert L. SchneiderKent D. TurnerKaren L

Stavnes [6].A method of using a computer to select hotels described in a database. A special user interface permits entry of criteria in one or more categories that describe the hotel. The computer searches the database and displays a list of hotels that satisfy the criteria.

III. ADVANTAGES AND DISADVANTAGES OF IMAGE FUSION

A. *Advantages*

1) Efficiency of the current system will be improved.
2) Less consumption of fuel.
3) Reduce the cost of user.
4) Reduce the time f user.
5) Reduce the effort of user.
6) Less man power required.

B. *Disadvantages*

1) Only for taxi passing car
2) Only for authorised hotel
3) Payment problem
4) Security
5) Tracking not available

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IV. PROPOSED WORK FLOW

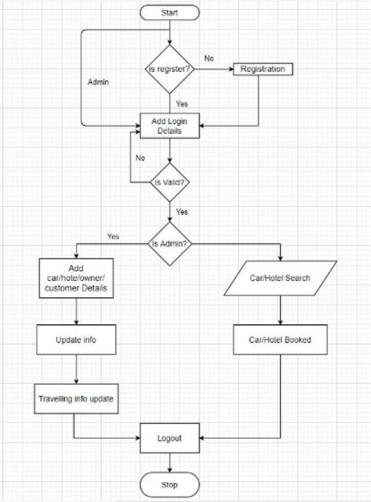


Figure 2: We Share App Work Flow

In this Flow Chart shows the overall flow of our system. First of all user has to do registration as admin or customer. After that user can simply login into the application by providing login details. After identifying the details if the user does login as admin then application will open the admin panel which has been functions like Add car/hotel/owner/customer details ans admin can also update this information as well.Now in other hand if the does login as customer then application will be provide functions like Car/hotel search to book Car seat or hotel room.

Comparison of Different Approaches

	Verification of vehicle	Select manual vehicle	Verification of user	Tracking using GPRS	Private vehicle for each user	Select types of vehicle
OLA	Yes	No	No	Yes	Yes	Yes
UBER	Yes	No	No	Yes	Yes	No
WeShare	Yes	Yes	Yes	No	No	No

Comparison of Different Approaches

	Location based hotel	Verifing User	Compare Hotel	Sharing Hotel Room	Show Hotel as per requirement	Online Booking Hotel
Trivago	Yes	Yes	Yes	No	Yes	Yes
OYO	Yes	Yes	No	No	Yes	Yes
WeShare	Yes	Yes	No	Yes	Yes	Yes

V. CONCLUSION

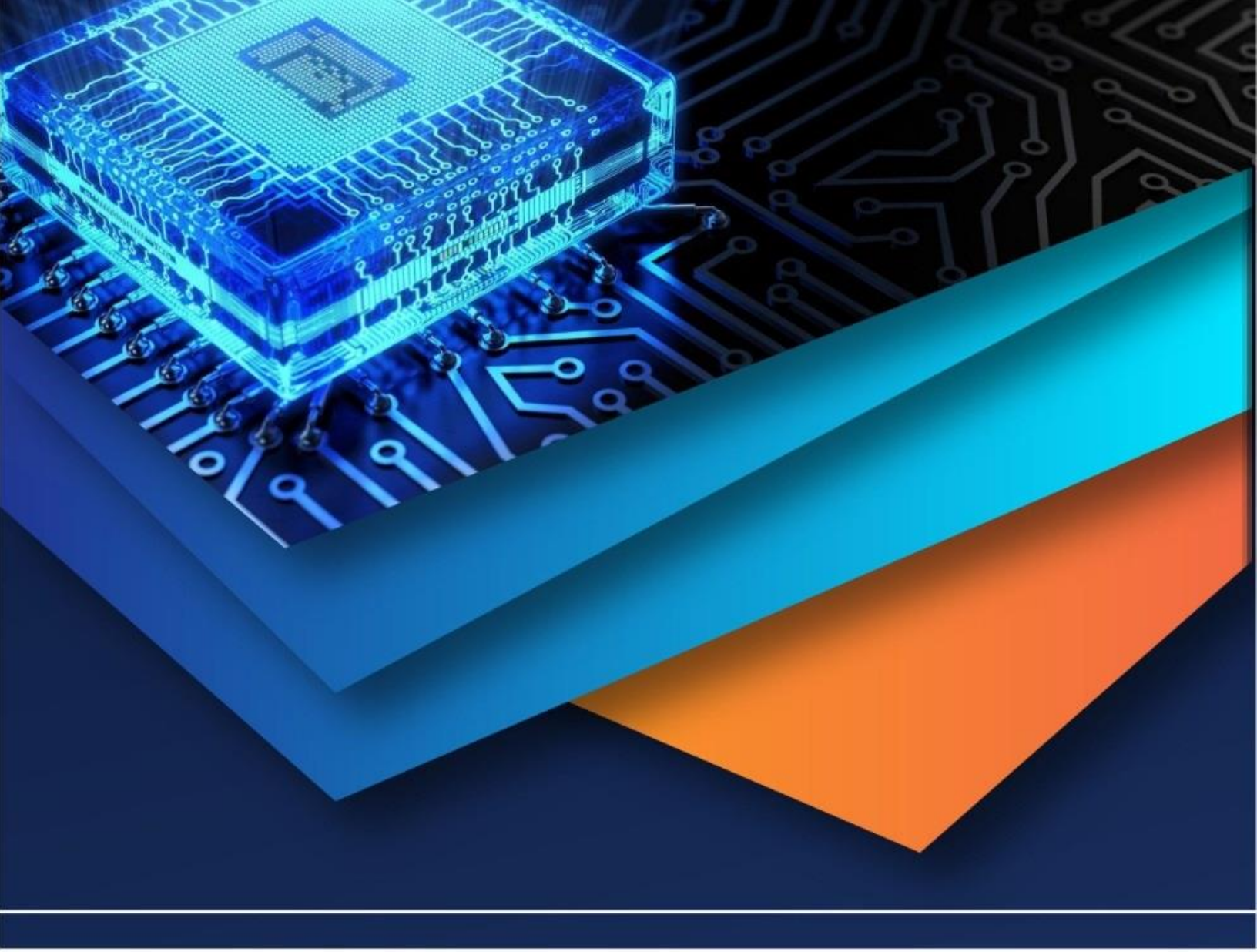
This report was made to introduce beneficial sharing concept with the idea, concept, and solution in the form of We Share App. As we observed for available similar system that they are not providing sharing concept that we have implemented in our We Share App. And which will bring out all the difficulties of user's in this specific sector. This application reduces the user's cost and time which great benefit for the users as well. This system is highly beneficial for the community.

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