

Project Report on Ride Sharing Database Management System

Project name: NeueTour Ride Sharing
Management System

North South University, Dhaka, Bangladesh

CSE311L Sec: 5 Summer 2021

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Introduction

Ride sharing has become very popular in recent years among population. Where people had to go out and book a cab now, they can book a ride just by sitting at their homes. Due to rising market of ride sharing platform and its flourishing market we decided to implement a software which will allow users to easily book a car. Ridesharing is a service that arranges one-way transportation on short notice. Rideshare platforms use a smartphone app or a website which connects drivers with passengers in the area. Once the customer has selected the destination and booked a car, the driver will get the notification of that specific customer. Once the ride reaches the pickup destination and the passenger has been picked up, the driver proceeds to the passenger's destination. When the driver reaches the end destination, the trip will have concluded and the passenger will exit the vehicle. Fare payments are generated in website and the passenger can make payments via cash or through card. The fare payment mostly depends on the service class of the vehicle. The website also allows passengers to provide a feedback. This feedback system helps the company in maintaining a quality level of service.

About neueTour ride sharing management system

NeueTour ride sharing is web-based technology that allows users to book cars at their convenience, users can view the vehicles that are currently active in the company and choose from them. At the end of the journey users are directed to a payment gateway where they can make payments through cash/card. There is also a feedback panel which allows users to share their inputs about the company service. Besides users, the administration of the company can also access the information of the users, add new vehicle or driver information to the database and also view the over all trip details of each bookings made by customers. There is also panel for drivers where drivers have to login and access information of their rides. Each vehicle of the company is assigned to a single driver and only that driver drives that particular vehicle. Anyone can apply for driver position and also

can provide their cars to the company as rent and these things can be done simply by just filling out a form. Upon booking both customer and driver details are directed to both ends so that both driver and customer can contact each other for clarification/update on the pick-up location.

Repository Link: https://github.com/barta3235/cse311_RSDBMS

Purpose and Benefits of Ride Sharing DBMS:

The main objective of ride sharing application is to bring ease to the lives of people. With increasing population transportation has become a great point of concern for the common people and thus ride sharing apps and software aids people with transportation. Here customers can book their vehicle and have a reliable, safe and economic means of transportation. This system is designed for people who want a hassle-free transport service at a reasonable pricing, who don't own a car and does not want to bear the maintenance of a vehicle and who are looking for a full-time/part-time job and are willing to earn money through driving.

Benefits of Ride Sharing DBMS:

1. Ease of booking a ride:

Our ride sharing database management system will be an online application that will help the customer book a ride from anywhere possible. As the traditional way of standing for a taxi in public is getting obsolete day by the, users will find it immensely helpful as they book a ride form a place of their convenience.

2. Reliability and safety:

Reliability and safety have always been a concern for the general public in case of public transportation. The benefits of ride sharing application is that

it is completely digitalized and thus every record is kept in the database. For example, the trip details, driver and customer details and vehicle details. Thus, anyone will think twice doing before committing any sort of crime and even if such unfortunate event takes place they can be easily identified as all the data has been recorded in the database.

3. Choice of vehicle:

Customers can select a wide range of vehicle from premium to economy according to the preference of their expenses. Ride sharing application provide the customers with a choice of their own vehicle which is not possible in any other means of travel. Users can book large vehicle like Vans and SUVs for their convenience.

4. Job Opportunity:

The ride sharing app is not only for the customers but also for drivers. People can make some money and also rent their vehicle for the convenience of others. People can apply for a driver's position to the company. The job application process is also completely digitalized when drivers can apply online through a form. Thus, the app also reduced the hassle of applying for a job.

5. User Opinion:

Customer service matters the most, as a result, user opinion will be handled with immense significance. In order to satisfy customers their opinion will be received through feedback function in our system that will enable us to enhance the experience of the users.

6. Payment:

Users can make payment through any legal methods such as both by card and cash.

7. Cost effective:

Our service is cost effective compare to other competitors in the market.

Features of Ride Sharing DBMS:

Finally, some common features found in the Ride Sharing Database Management Systems include:

1. Website:

The ride sharing application will be an online based application which will allow the users to access through a website. The website will have all the necessary features for the users to book a ride and even apply to be a driver. The website will be monitored by the admin who are responsible for the proper functions of the system.

2. Booking a ride:

Users will be able to sign up and then book a ride through book a ride option in the website. The user will need to provide the necessary information provided in the book a ride option and then proceed forward in the required field. In the booking option the user will be able to select the type of vehicle, location and end the journey.

3. Payment:

After ending the journey, the user will move ahead in the payment section where the payment will be made. Here the user will be introduced to a secure link where they will be able to make their payment. In this section the user will have to fill a form where they will choose the payment method. Eventually, after confirming the trip will end.

4. Admin:

Admins will have access to the entire system. Admins can login through their respective username and password where they will be able to monitor everything in the database. Admins will be able to edit all customer, driver and vehicle information. They will be able to add new drivers and vehicle who applied for a job. Admins will be able to access all the trip information and feedbacks from the customers and take necessary steps.

5. Driver:

The drivers will be able to access their account through a login system where their phone number and password will be required. After logging in they will be able to see their customer information and contact with them. Drivers will also be able to apply through the website where they will need to fill the required information they are asked to provide. This information will be accessed by the admin where they can verify and approve the driver for the job.

6. Renting car:

Through the renting car option, people can rent their own vehicle to the company. Here information like owner's name, contact info, vehicle type, name, model and registration number will be the required field that needs to be completed. Then the admin will access the database and confirm the rented car.

User Interaction Story

Customer

1. . If a customer wants to Book a ride. There are two options for the customer.
 - a. If he/she is using the website for the first time he he/she has to register their account first
 - b. After they have registered, they will be able to book cars of their choice.
 - c. If the mobile of the customer while booking doesn't match with that of registered one, the customer will be asked to register first.
2. After the customer has booked a ride, they will be directed to a payment gate way where they will be asked to provide their mobile number again for verification.
3. Customers will also be able to see the vehicles and vehicle details that are active int the company.
4. Customers will be able to post a feedback about the service of the company where they will have to provide the payment slip number for verification.

Admin

1. Admin of the company who are basically employees will be able to login to the system and logout.
2. Admin can view customer details (people who registered), Driver details and vehicle details and are also allowed to edit information's if required.

3. Admin can add new vehicles to the database and can also assign new drivers to the company.
4. Admin will be able to remove driver application and vehicle application forms from the database.
5. Lastly admin will be able to get the whole details of every trip that occurs regularly.

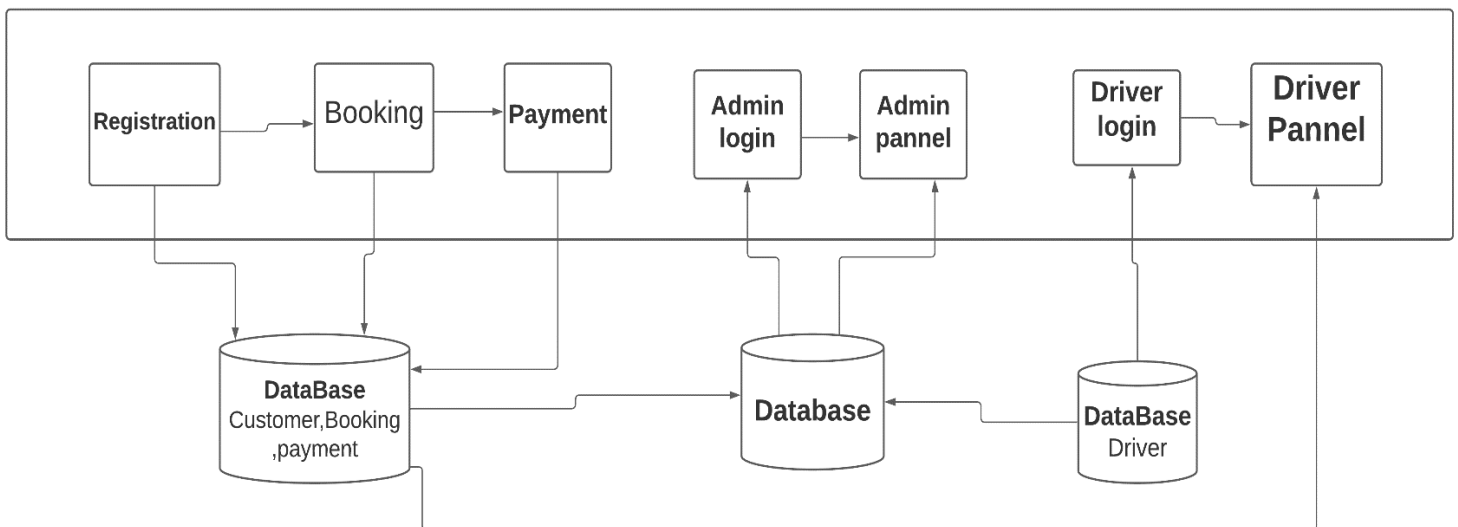
Driver

1. Drivers will login to the system by providing their name, mobile number and password.
If the provided information's are valid, they will be redirected to a page where they will be able to see details of the customer who has booked the ride.
2. After the journey ends, driver will logout from the system.

Solution Description

The figure below explains the architecture plan of the website

Interface Module



The three database drawn resembles the same Database, for better understanding of the architecture the databases are shown differently

Examples of leading ride sharing companies



Front-end Development plan:

Templates Designed:

1. Home page
2. Sign-Up page
3. Book car page
4. Payment page
5. View vehicle page
6. Rent car page
7. Drive apply page
8. Admin and Driver login page

Back-end Development plan:

Templates worked on:

1. After sign-up data interaction is done with the database to store the data
When booking the mobile number of the customer is verified by matching data from the database.
2. The redirection of drivers from login to driver panel and admins from login to admin panel
3. The edit, delete and add information performed by the admin.
4. The data's surfacing in the driver, admin panel and payment panel.
5. All data verification with the database

Tools and Technologies:

For Front- END:

1. HTML
2. CSS
3. Bootstrap
4. Java Script

For Back- END:

1. My Sql
2. PHP

Server:

1. XAMPP

Advantages:

1. Alternative transportation –Technology has made alternative transportation available to commuters. This means that people can get to where they need to go conveniently and easily. People who don't have the funds to purchase a car, or who may have their car in the garage, would otherwise have to travel by bus, train or taxi in order to go shopping, to school, work or some other place. Many times, they are hindered by cost and convenience. Ridesharing offers a service that is both convenient and cost effective.
2. Cost effective – If you have ever had to take a cab and got caught in traffic, then you know the dreadful feeling of watching the meter tick. Ridesharing is cheaper than taking a taxi since you can have more than one person sharing the ride and also the cost.
3. Ease of getting a ride – If you are thinking of catching a taxi at a taxi rank, you may find yourself having to wait for a taxi to swing by. Additionally, should there be others waiting for taxis, you would have to wait your turn. If you are running late, this can be a major stressor. With rideshare, all you have to do is use the

website to locate a ride close to you. Once you have indicated the location where you are and your destination, a driver will come for you as quickly as possible.

4. Drivers who are friendly – Ridesharing drivers are very friendly and with the website, users can actually write feedbacks where they can rate the drivers. This will generally keep the drivers in check because nobody wants to get a fired.

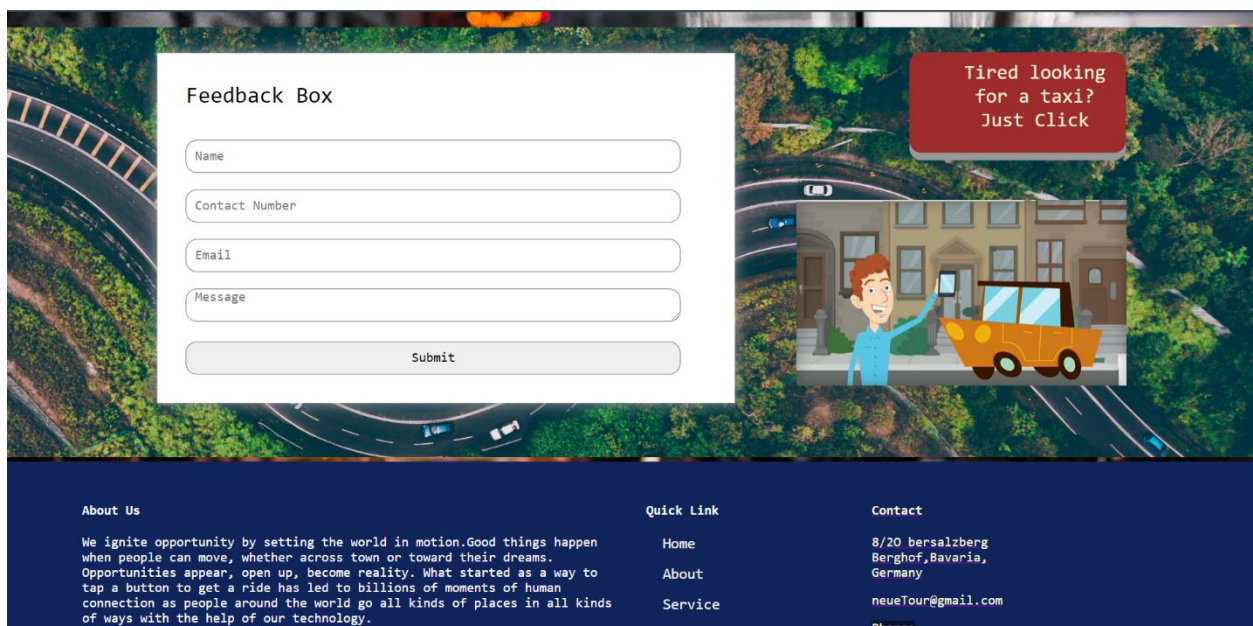
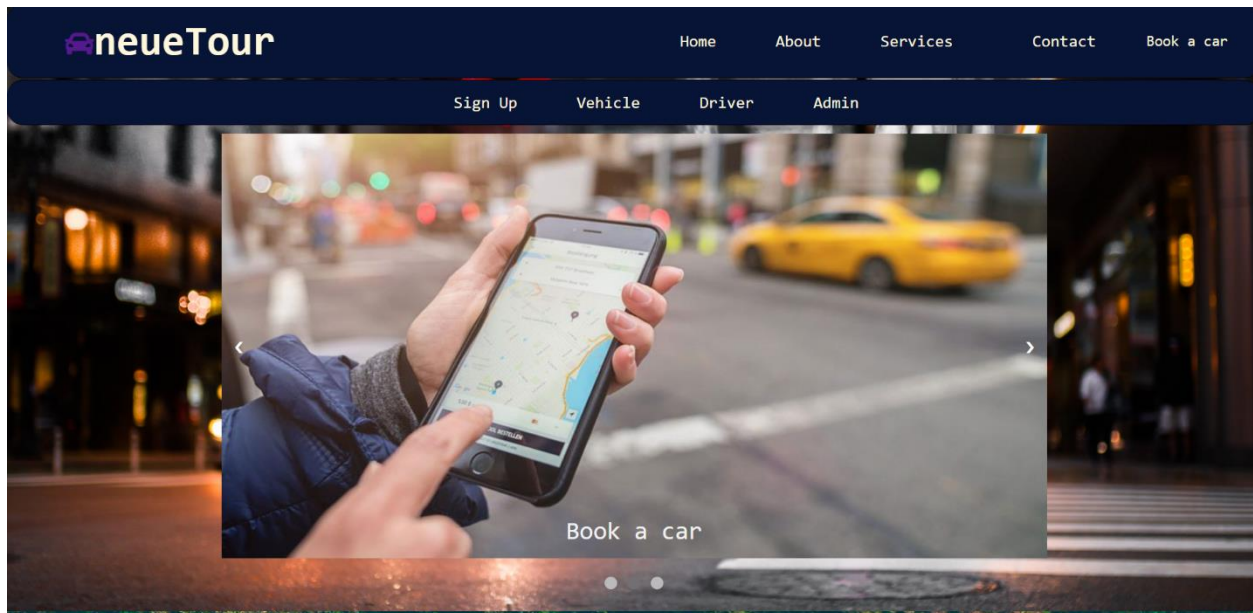
Hosting Platform:

The website was hosted locally using XAMPP. XAMPP is an abbreviation for cross-platform, Apache, MySQL, PHP and Perl, and it allows anyone to build website offline, on a local web server on computer.

Project Schedule:

Date	July 5 - July 24	July 24 - Aug 19	Aug 19 - Aug 27	Aug27 - Sept 11	Sept 11- Sept 19
Project plan (Project Proposal)					
Database schema, ER Diagram, Use Case Diagram					
Front-End					
PHP, SQL Database interaction					
Final Work (API and other modifications)					

Some Screen-Shots of the website



neueTour

Welcome Admin Ahnaf

User pannel

Customer ID	First Name	Last Name	Birth Date	Gender	Mobile Number	City Address	Street Address	Email	Edit Information
22	jjjjjjjj	karpa	2021-09-01	Male	1621089962	Narayanganj	Bank colony	bartamitdaiyan@gmail.com	Edit
24	toxy	loket	0044-04-04	Male	1720222334	Dinanaee	youyiyi	jevo.2987@gmail.com	Edit
26	rahh	maan	0004-04-04	Male	1789674347	Narayanganj	indonesia	ahnafdaiyan3235@gmail.com	Edit
27	shadman	dong	0044-04-04	Male	1789674348	Dinanaee	nakuyy	paali@gmail.com	Edit
28	lokmath	mishti	0044-04-04	Male	1921098963	Borishal	solimul road	bartamitdaiyan@gmail.com	Edit
29	polash	rerre		Female	1789674346	Narayanganj	ttrtrtr	bartamitdaiyan@gmail.com	Edit
30	ddddd	ffff		Female	1711533633	cheeseeee	youyiyi	ahnafdaiyan3235@gmail.com	Edit
31	chill	man	0033-03-31	Female	1711522622	Dinanaee	Erssaase	jevo.2987@gmail.com	Edit
32	Prottoy	akil	0033-03-31	Male	1680012666	ngonj	indonesia	bartamitdaiyan@gmail.com	Edit
33	Sara	Achfi	2005-08-12	Female	1977533622	Narayanganj	Bank colony	sarajevo.2987@gmail.com	Edit



Book your ride

First Name

Mobile Number

Vehicle Class

Vehicle

2021-9-19

Start Location

Start Time HH:MM am/pm

End Location

Havent signed up yet? [Sign up](#)

Submit

Go back home

Sign Up

First Name

Last Name

mm/dd/yyyy

Gender

Mobile Number

City Address

Street Address

Email


Submit

Go back home


Vehicles

Go Back


Book your ride




More




More




More




More




More




More



More



More



More

Conclusion

A ride sharing company basically makes travel easier for people, it made life easier to a point that people are just some click away to make a decision to go somewhere without having the thought of managing a transport.

Although our presented project might have some limitations but with easier user interface and easy functioning this website will sound very much confident among all the other ride sharing services currently in the market.

Ride share is what makes life easy.

Appendix

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Thank You.