Project Phase II Report

On

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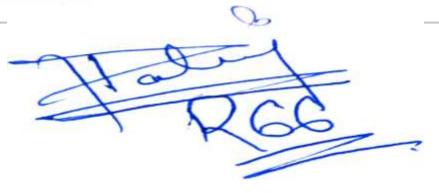| NAME	UID
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ABSTRACT

Car and bus travel agencies need an effective management platform for handling their respective transportation services. The existing system relies on manual data recording for management which is very tedious and time consuming, involving a lot of manpower and paper work. So, the current system need to be computerized and web-based. The proposed cab and bus service management system is a web-based application which can handle a variety of branches and departmental works of a typical car agency. This Aptich Transport Website is a modern day tool to solve our day to day transportation-related problems. This website showcases the development of an interactive website which functions as a Cab and Bus Booking System for customers to effortlessly book cabs and buses for travel, the system is named Aptich Transport. It is an online portal through which customers can view available cabs ad buses, register the cabs and buses, view profile and book cabs and buses. Aptich Transport Website aims to provide relief to people facing these issues by providing easy to book, cheap and pleasant taxi and bus rides to anyone with access to a smartphone. This app is a two - way tool that encourages both the customers in need of a ride as well as taxi owners and cab service providers to register with the app, thus diminishing the distance between customers and taxi owners. This is ensured by the fact that there are multiple cab service providers and the customer has the option to pick the one providing best services for the lowest

price. In case of car rental services, this sort of system stands out as trustworthy and reliable in the travel business.This project aims at offering the best of car services to clients in need. It has a fleet of cars ranging from normal budget cabs to expensive luxury cars.

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INTRODUCTION

Transportation is the medium through which one can travel from one place to another place. In all form of transportation, road transportation is very common. This Aptich Transport website is a modern day tool to solve our day to day transportation-related problems. There are a number of issues when it comes to traveling from one place to another, some people don't have their own vehicles, and others don't want to use public transport like buses to travel, independent taxi owners asking for higher fares and many more. Aptich Transport has only one aim, to solve the "Modern Transportation Problem". In this modern era, where the needs of every individual differ Aptich Transport hopes to fulfill those needs. Whether you need a cab for your daily errands or maybe an hourly rental. Or maybe you want to go see your cousin 100s of miles away, Aptich Transport will try to make the journey as enriching and beautiful as the destination.

A computer based management system is designed to handle the entire primary Information required to manage the whole data. Separate database is maintained to handle all the details required for the correct statement calculation and generations. This project intends to introduce more user-friendly approach in the various activities such as record updating, maintenance, and searching. Standard Web development languages like HTML, JavaScript and PHP were used for Front-end and Back-end development respectively. PHPMyAdmin software was used to maintain and check integrity of databases created.

Once you completely immerse yourself in the depth of the proposed model, you truly understand the power of such a transportation mechanism. People would be able to book any kind of vehicle just though the internet. We try to move the power in the

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hands of the consumer, they choose from the hundreds of different options available for them. This combined with the extra security measures can change how we view transportation. The vehicles can be installed with modern GPS devices that will allow every user to track it just on the website or phones. Also, a well-defined system for the drivers allows a seamless communication with the client.The website can also act as platform to spark the development of rental services (which has been quite slow since few years). People could rent their vehicles when they are not using them which also earns them some extra money. This itself could attract thousands of people and may itself emerge as a new industry.

LITERATURE REVIEW

- The rapid growth of urbanization in the recent trends has led to the increased consumption of automobiles. From many points of view, this tremendous growth has been assured, including the emergence of a prosperous automobile industry and cohesive financial progress. Thus, It is a profitable business

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- India appears to be going via a 'Taxi' revolution. Each day, there's a new start up providing efficient cab service to the residents working in both urban and rural existence.
  BY: Amit Vashistha, Rohit Goyal

- Mobile applications for Taxicab booking is one of the basic need of the general population nowadays, especially in urban areas since this application picks up significance among the general population. The client can even take into consideration, the driver or the type of car and other subtle elements while booking the taxicab.
- The database design coursework serves to demonstrate the mastery of database concepts by showing the ability to successfully use the logical database design techniques to construct and build a fully functional taxi database booking system such that the structure of the database in the

design state is the same as the structure of the booking system in a real world scenario with full functionalities and requirements desired by both the developers and the shareholders of the system that is those who initiated
BY: Aman Chaudhary, Prabhu S

1. [Intelligent Transport System for Smart Mobility in Public Transport (ijser.org)](#)

- Data analysis is an important step in the design of the booking system since it is at this stage that we produce the conceptual models and structures. Conceptual model determines the data and their relationship. Since there are two main ways of building the system then the analysis stage is of greater importance since we determine whether to use the bottom up or top down approach in the design of the database.
- The travelers get options to choose from according to the different transportation modes which are available for a particular route. It minimizes the time of the disruption form a point to another point which also increases the ease of the travel.
- The transportation is perceived as a comprehensive system of multi modal transport from door-to-door. This makes it easier for citizens to make decisions on travel plans through real time.

PROBLEM DEFINITION

A database to store all the information such as: Login details, Routes details, Fair details, Driver details etc.

The task is divided into two sub-tasks:
1. Consumer/Client able to book a vehicle
2. Vehicle-owner/Driver able to rent a vehicle

The objective is to solve these two subtasks efficiently which allows Driver to match with Client which naturally allows a seamless transportation mechanism.

The project is divided into roughly these following parts:
- Client-Side Interface
- Backend Operations

Client-Side Interface
It's the part with which most of the people would interact. People would book cabs, buses etc. from here directly by choosing source and destination. This side is also where the users would make use of systems like: Login/Signup, Payment, AI Help-Bot etc.

Backend operations: we are ensuring the security and safety of our passengers so all the data base should be properly stored and not to be shared with outsiders. In case of any criminal activity by collaborating with government agencies.

Objective:
The main objective is to maximise the efficiency of the transport system and decrease the communication gap between the client and the driver. Now, the entire system is composed of two sub-tasks:
1. Consumer/Client able to book a vehicle
2. Vehicle-owner/Driver able to rent a vehicle

The objective is to solve these two subtasks efficiently which allows Driver to match with Client which naturally allows a seamless transportation mechanism. Furthermore, the system should be robust and reliable. Both of these qualities are important for the functioning of the entire system.
Moreover, other things that our project tries to achieve are:
1. Rent/Book any kind of vehicles just using the internet
2. Create a well-defined system for the drivers allows a seamless communication with the client.
3. Enhance the overall security of the system using dedicated GPS devices.

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4.   The website can also act as platform to spark the development of rental services.

CONCLUSION:

- **Cab system has brought a dramatic change in the personal transportation industry.**
- **Aptich website offers flexibility to customers as they simply need to turn the application anytime whenever they want the service and book the cab.**
- **With the introduction of personal transportation services like Aptich, we can easily book a cab and bus via your smartphone from any area.**
- **The best part of choosing Uber is that it is secure for passengers. The services focuses on making traveling comfortable and safe for its passengers.**

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