

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)



Skill Based Mini Project Report

on

< TAXI MANAGEMENT SYSTEM >

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Submitted to:

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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CERTIFICATE

This is certified that **Piyush Shivhare** (0901CS201083) has submitted the project report titled Taxi Management system under the mentorship of asst. prof. Jaimala jha ma'am, in partial fulfilment of the requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.



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Faculty Mentor
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DECLARATION

I hereby declare that the work being presented in this project report, for the partial fulfilment of requirement for the award of the degree of Bachelor of Technology in Computer Science and Engineering at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of Ms. Jaimala jha ma'am, Assistant professor , Department of computer science and engineering .

I declare that I have not submitted the matter embodied in this report for the award of any degree or diploma anywhere else.



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ABSTRACT

The general abstract of TAXI MANAGEMENT SYSTEM [DBMS] project is renting a cab/taxi and getting cash from the respective clients who use it. Here we demonstrate usage of create, read, update and delete MYSQL operations. Project begins by adding a cab and then adding the details of the driver using the taxi. Owner (person in charge) provides the cab to the drivers. Expense id also added on daily basis. During booking customer/client books a taxi for their requirement to get to the specific and desired locations. In this project we have been analyzing and insert the data requirements and functional requirements needed and have perfectly implemented the system. The data requirements, apart from data to be stored in the database has been taken into consideration, and some are taken in to account which are necessary integrity constraints that are reasonable for the database.

INTRODUCTION

Online Taxi Booking Management System is developed to manage all cab hiring work online. It is useful for car booking agency that are specialized in Hiring cabs to customers. Using this system many car-booking agency are moving ahead to become a pioneer in the vehicle rental industry by completely focusing on customers. Using this system, it is very easy for customer to book a taxi online and taxi-booking agency can also track their booking online. So, it is also very useful for car booking agency. It is an online system through which customers can view available cabs; register the cabs, view profile and book cabs. Mostly people use cab service for their daily transportation need. Taxi booking agency can also check which car is free for booking and which cars are on booking at present time. The objective and scope of my project Online Cab booking System is to record the details of various activities of user. It will simplify the task and reduce the paper work. Using this car booking management system taxi owner can also become partner of car booking agency by giving their car for booking.

How car booking management system work?

When user want to hire a taxi, they contact the car rental service. They can select date of journey and car they want to hire. This all is done online. To book a car user have to enter his address and other ID information. This system keeps all the details of car booking and when customer booking comes

then he check the system for available car and confirm the booking if car is available on the booking date. User have to give information such as dates of journey, and type of car mobile number and address information. User also has to give pick up point information and drop off information to book a car. This system make so easy to manage car booking for the car booking agency that ageny can focus on service quality like how to provides service with well-conditioned new vehicles, with experience drivers for a happy journey of the customers. This project intends to introduce more user friendly in the various activities such as record updating, maintenance, and searching.

The hiring car are categorized into economy, premium and luxury & customers are free to choose any car of their choice based on availability of such car at the time of booking.

Car rental management system also provide services to corporate houses. This system also takes records of the car and their permits and other documents. All cabs have proper permits and documentation so that the clients could not be hassled for the lack of documents. This system also keep records of the car drivers and admin can check driver related information like his name, address, id documents and which car he is driving on booking etc. Cab drivers are educated, polite, and reliable and are trained to handle acute breakdowns. The cab service includes all categories of cars from luxury to budget.

Taxi rental system also helpful to maintain the quality of service by tracking the records of user's feedback of the service.

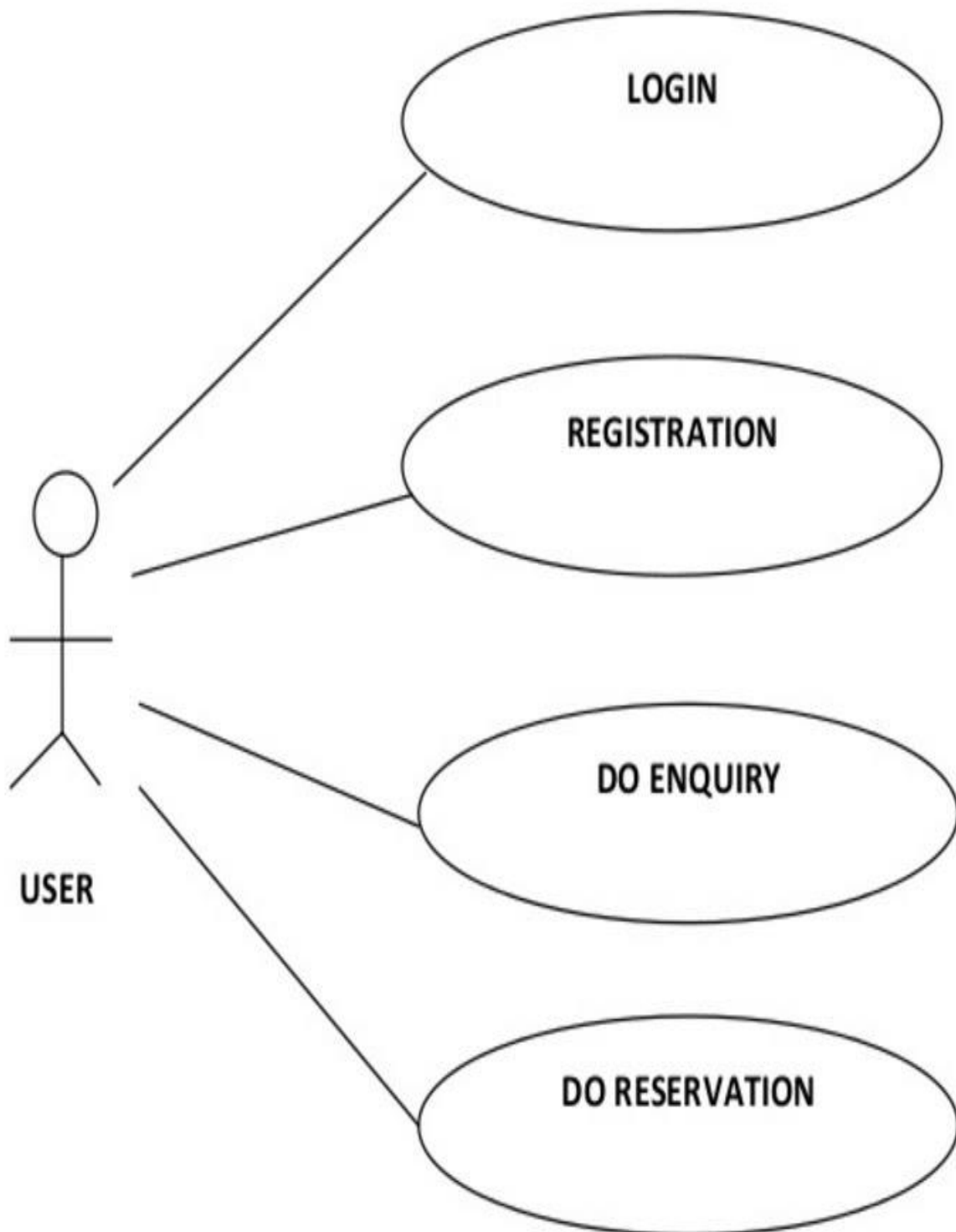
Taxi management:

This taxi booking system is an online system and all data is centralized which has overcome the Sharing problem. It provides registration for the cab owners. And it proved service to users who want to book a car or cab. As data is maintained online, it is easy for a person to update the details. Here the traveller can book a cab, taxi and car by viewing all the cab details and pricing details available, according to selected city and area. It is the reliable service provided to both customers and travel agencies. Mainly the system has automated the Transportation Process.

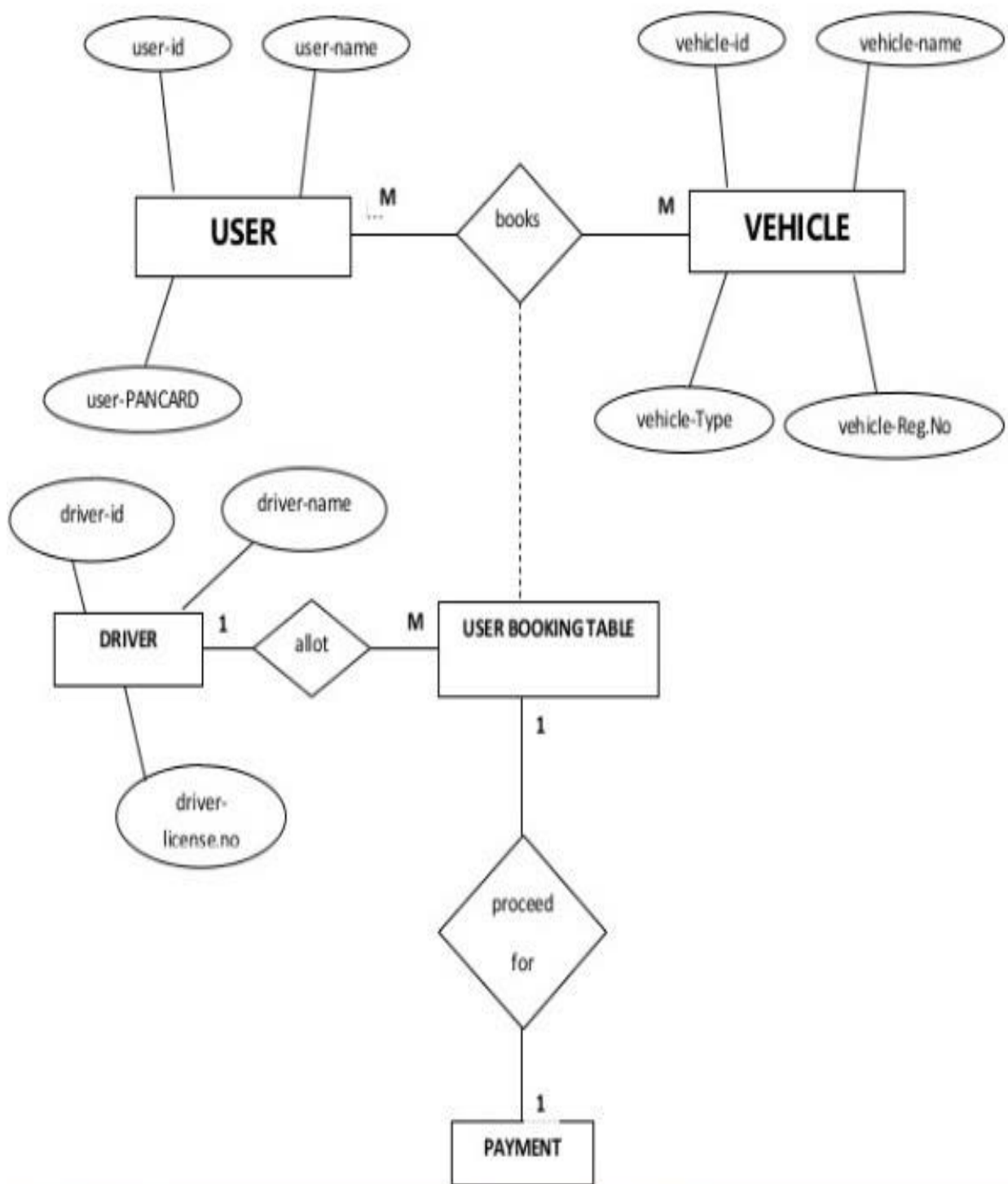
Services provided:

- Users' registration
- Cab Search
- Registration process

USE CASE DIAGRAM:



ER DIAGRAM OF CAR BOOKING MANAGEMENT SYSTEM



DATABASE USED:

ENTITIES

- USER
- VEHICLE
- DRIVER
- USERBOOKING TABLE
- PAYMENT

MODEL:

- ER MODEL

RELATIONSHIPS:

- BOOK (m:m)
- ALLOT (1:m)
- PROCEED FOR (1:1)

SNAPSHOT OF DATABASE:

```
mysql> desc USER_;
```

Field	Type	Null	Key	Default	Extra
Usr_id	int	NO	PRI	NULL	
F_name	varchar(20)	YES		NULL	
L_name	varchar(20)	YES		NULL	
Contat_no	int	YES		NULL	
Gender	varchar(10)	YES		NULL	
Address	varchar(50)	YES		NULL	
Taxi_id	int	YES		NULL	

```
7 rows in set (0.02 sec)
```

```
mysql> DESC VEHICLE;
```

Field	Type	Null	Key	Default	Extra
Taxi_id	int	NO	PRI	NULL	
Registration_no	varchar(20)	YES	UNI	NULL	
Taxi_Model	varchar(20)	YES		NULL	
Taxi_type	varchar(20)	YES		NULL	
Status_	varchar(20)	YES		NULL	
Driver_id	int	YES		NULL	

```
6 rows in set (0.00 sec)
```

```
mysql> DESC DRIVER;
```

Field	Type	Null	Key	Default	Extra
Driver_id	int	NO	PRI	NULL	
F_name	varchar(10)	YES		NULL	
L_name	varchar(20)	YES		NULL	
Gender	varchar(10)	YES		NULL	
Conatct_no	varchar(20)	YES		NULL	
Rating	int	YES		NULL	
Age	int	YES		NULL	

```
7 rows in set (0.00 sec)
```

```
mysql>
```

Result

We have developed this system to produce a web-based system that allow customer to register and reserve cab online and for the company to effectively manage their Cab hiring business. Presently car booking agency do all work offline when a customer comes to them they take the booking order and call the car driver to check their availability with their car if they manage to find a car for booking they confirm the order otherwise they cancel the order as they have no car for the booking. This process waste a lot of time of customer and also of car booking agency and it also give bad name to the agency but with our system car agency can confirm the order within a minute by checking the availability of cars for booking. So this car booking system is helpful to ease customer's task whenever they need to rent a cab or hire a cab.

Conclusion

After more than two months of investigation, research, analysis, design and development, the basic management of the taxi management information system is completed. Its function basically meet the demand, to achieve the management of the site and the line and the driver and vehicle file operation, followed by the vehicle operation must also be carried out, maintenance, illegal, accident and other major aspects of the management function. Of course, it is essential to insert, modify, delete and query the above data. In addition, the design can use the above data sheet to achieve the daily balance of payments and operation statistics.

Although the Visual Basic structure is very complex, there are many difficulties to learn, but once mastered its characteristics can be very good use of its function. Through the design of this system, I learned how to create an application, how to design a software, independent thinking. From the beginning of the design of the system structure, analysis of how to start, how to design, so I mastered how to distribute the development of application software. The learning made me understand the development environment of VB, and object-oriented language from the initial understanding, to achieve a simple development and application