

A
PROJECT REPORT
ON
“Car Rental Management System”

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Submitted To :

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Of

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Guided By :- Ms. A. S. Bachhav



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Department of Computer Science

Academic Year 2021-2022

CERTIFICATE

This is to certify that the Project Title “**Car Rental Management System**” has been successfully completed by: **Ashwini Niranjn Wagh & Nidhi Shrikant Sandhan** in partial fulfillment of the requirements of Third Year B.Sc.(Computer Science) to Savitribai Phule ,Pune University for the academic year 2021-2022.

Project Guide:

Head of the Department:

Internal Examiner:

External Examiner:

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We feel in related in manifesting our sense of gratitude to our project guide by Ms. A. S. Bachhav, Department of Computer Science. Who has been constant source of inspiration for us and we are very deeply thankful to her for support and valuable advice.

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INTRODUCTION

The “Car Rental Management System” has been developed to override the problems prevailing in the practicing manual system. This system is designed to help the customers to take cars on rent. When we go on any trip outside the town or country we want to be free of time so instead of going through metros and taxis we prefer to have our own vehicle for rent. Using this system vehicle owner can register as sellers and customers who want to take car on rent can register themselves as renters and can take bike or car on rent.

This software is supported to eliminate and in some cases reduce the hardships faced by this existing system. The application is reduced as much as possible to avoid errors while entering the data. It also provides message while entering the invalid data. No formal knowledge is needed for the user to use this system. Thus by this all it proves it is user-friendly.

Existing System :

In this system user or client will directly interact with the car owner and owner will decide whether the car is available or not. Then if it is available he will give rent a car to the customer. The main drawback of this system is customer need to meet the car owner. This is time waste process.

In existing system the exams are done only manually but in proposed system we have to computerize the exams using this application.

- Lack of security of data.
- More man-power is required.
- It is the time consuming process.
- It consumes a large volume of work.
- It is complex to handle huge transactions.

Proposed System :

This aim of proposed system is to develop a system of improved facilities. The proposed system can overcome all the limitations of the existing system. The system provides proper security and reduces the manual work.

- It is easy to use and an efficient computerized system.
- The system provides proper security and reduces the manual work.
- Minimum time is needed for the various processing.
- The information about any car can be easily retrieved.
- It provides better service.
- It is user friendliness and interactive.
- The system maintains all records easily.

Scope of the System :

It may help collecting perfect management in details. In a very short time, the collection will be obvious, simple and sensible. It also helps in current all works relative to car rental management system.

- Reduces the cost of collecting the management and collection procedure will go on smoothly.
- It satisfies the user requirements.
- Have a good user interface.
- Be easy to understand by the user and operator.
- This system works to reduce human efforts.
- It is easy to operate and be expandable.
- Delivered on schedule within the budget
- Less time consuming.

Feasibility Study

Feasibility study includes consideration of all the possible ways to provide a solution to the given problem. The proposed solution should satisfy all the user requirements and should be flexible enough so that future changes can be easily done based on the future upcoming requirements.

Operational Feasibility :

- Operational feasibility is a measure of how well the proposed system solves the problems, takes advantage of the opportunities identified and how it satisfies the identified requirements.
- The main purpose of this project is to provide a system that is useful and beneficial to the customer. All requirements are required for client applications .
- Operational feasibility is mainly related to human organization and political aspects.

Technical Feasibility :

- Technical feasibility includes the study of function, performance and constraints that may affect the ability to achieve an acceptable system.
- It is also important to check the state of the software and hardware because the development of this things.
- Technical feasibility can be qualified in terms of volumes of data, trends, frequency of updating, etc. in order to estimate whether the new system will perform adequately or not.

Economical Feasibility :

- This is very important aspect to be considered while developing a project. We decided the technology based on the minimum possible cost factor.

- All hardware and software cost has to be borne by the organization.
- Overall we have estimated that the benefits the organization is going to receive from the proposed system will surely overcome the initial cost and later on running cost for the system.

Schedule or Time Feasibility :

- Schedule feasibility is defined as the probability that a project will be completed within schedule time frame.
- If there is a high probability of timely completion of a project, then its schedule feasibility is highly assessed.
- Schedule feasibility will see if it is possible to develop a successful solution to a given time.
- The researchers have planned keeping in the view of given timeline.

Hardware and Software Requirement

Hardware Requirements :

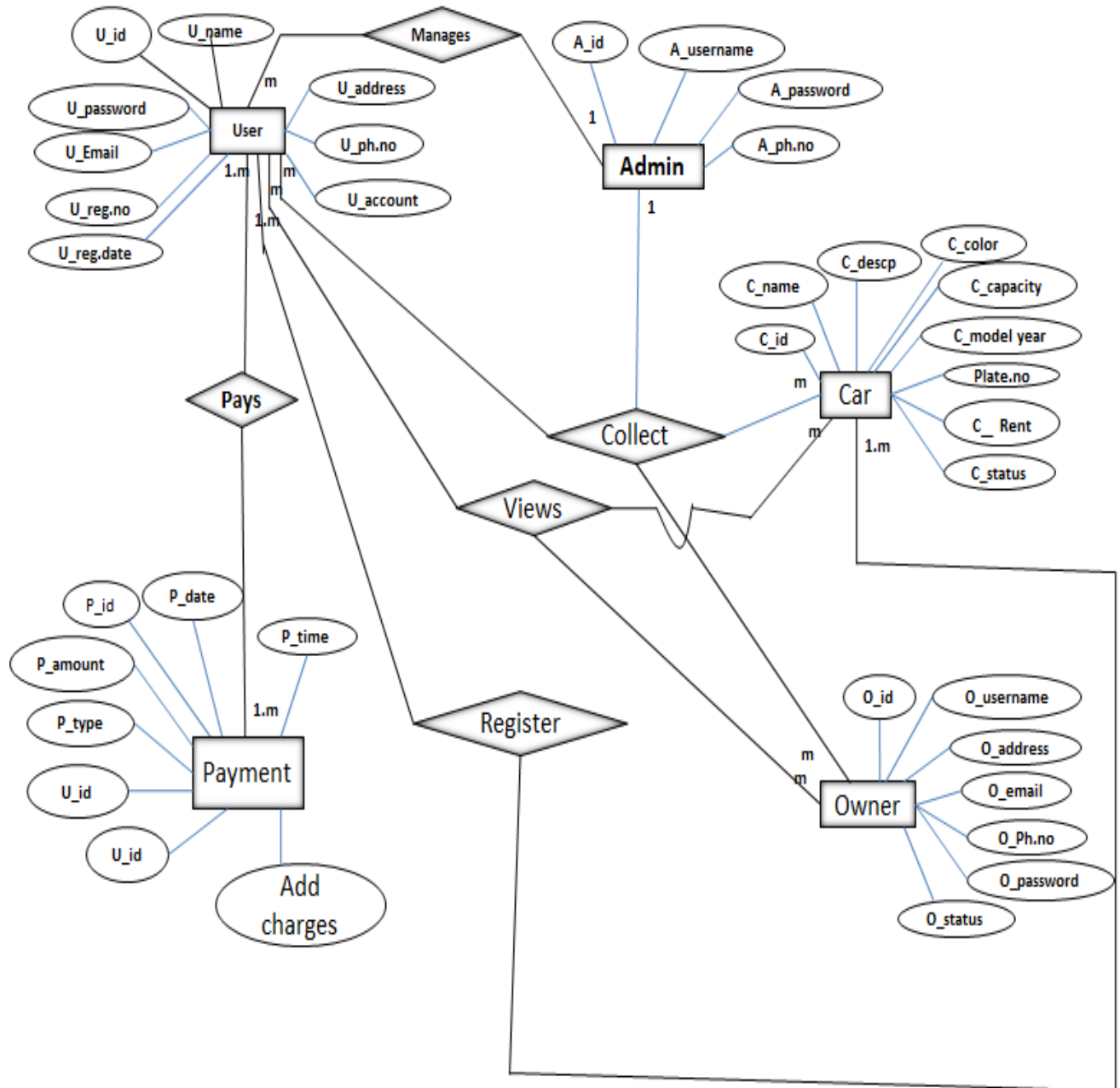
- Processor : Core i5 and above.
- Hard Disk : 500 GB
- Memory : 8 GB RAM

Software Requirements :

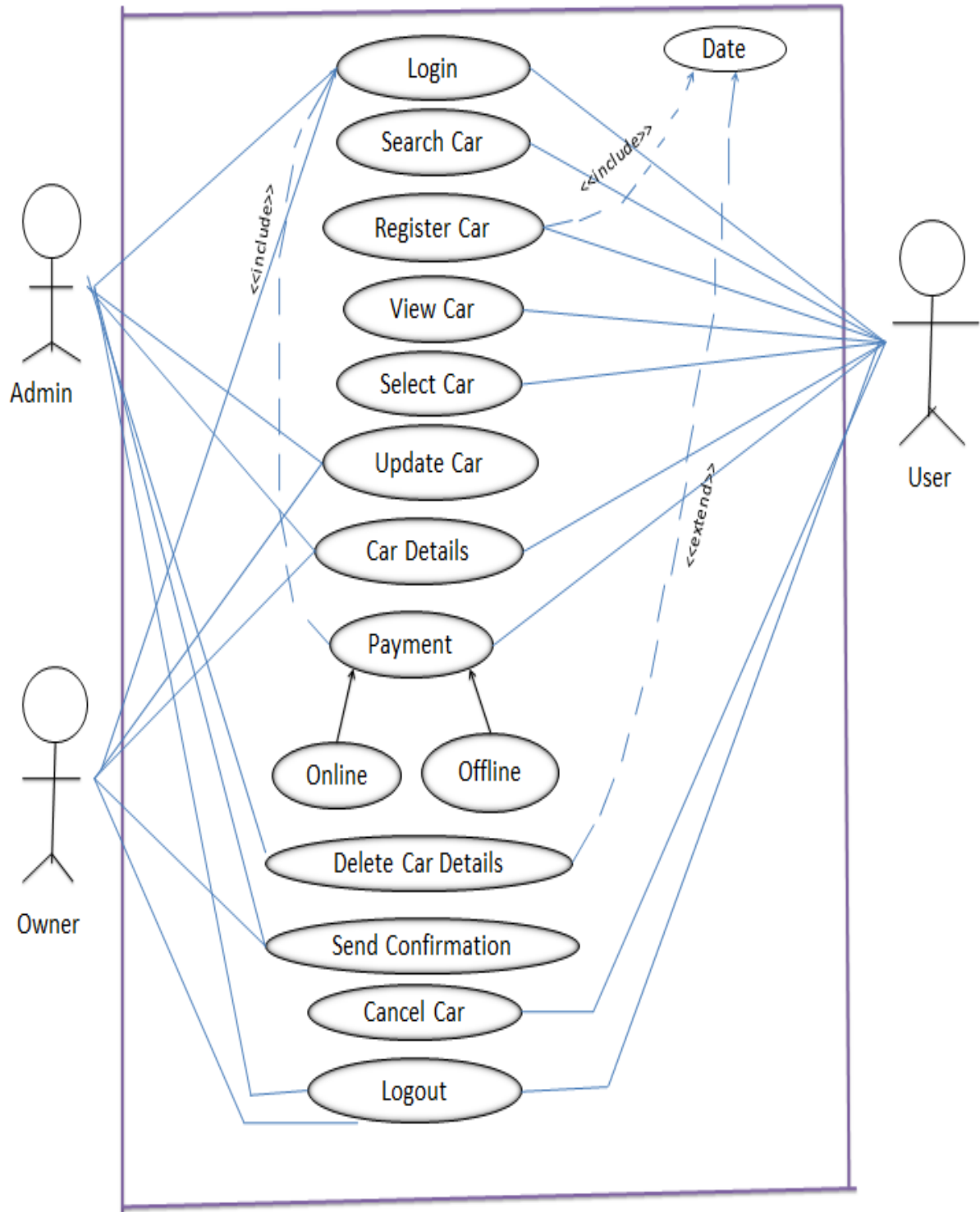
- Windows 10 and Above
- XAMPP SERVER PHP, HTML, Bootstrap, JavaScript ,AJAX (Front End)
- MYSQL Database (Back End)

System Design

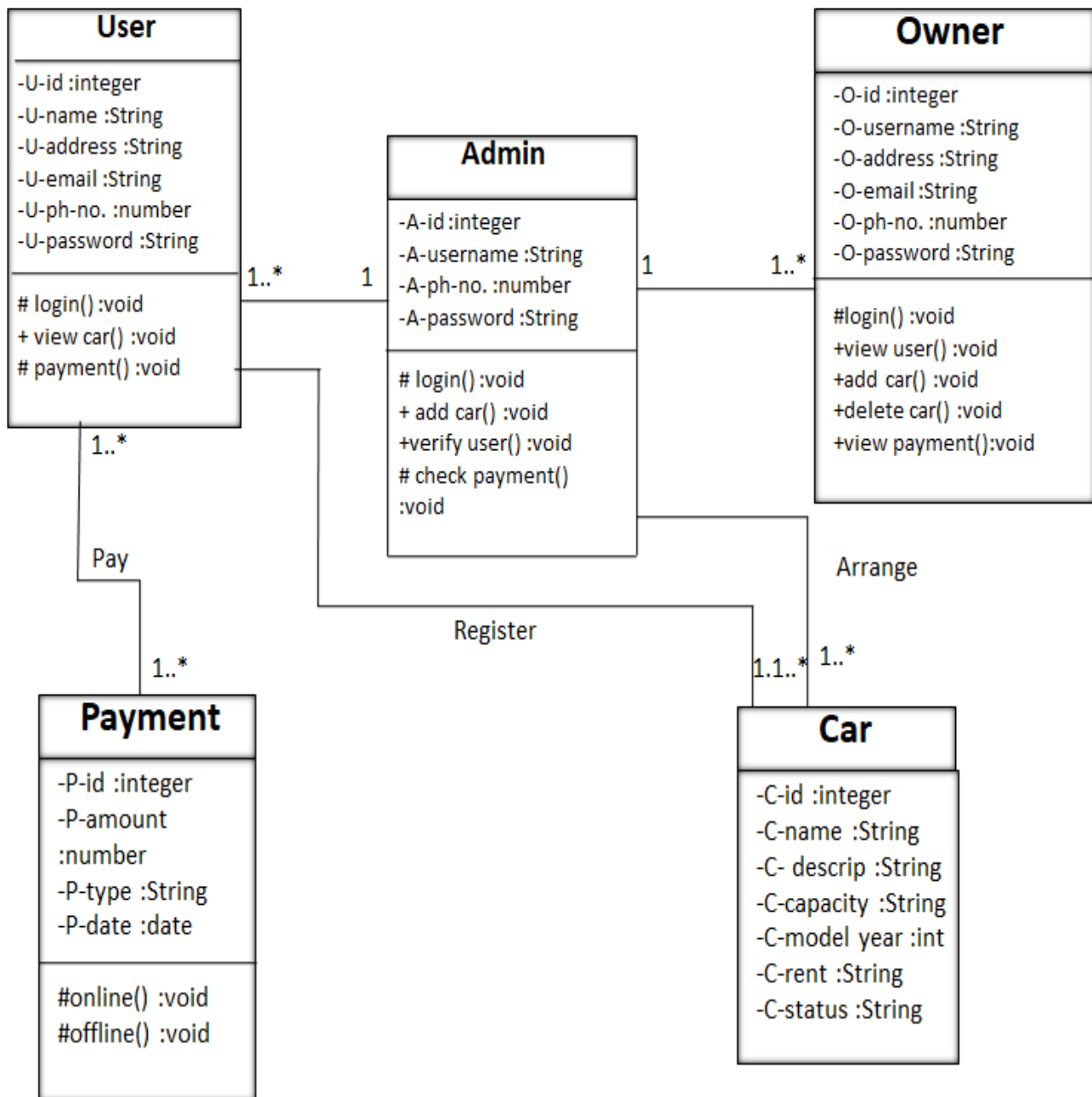
E-R Diagram



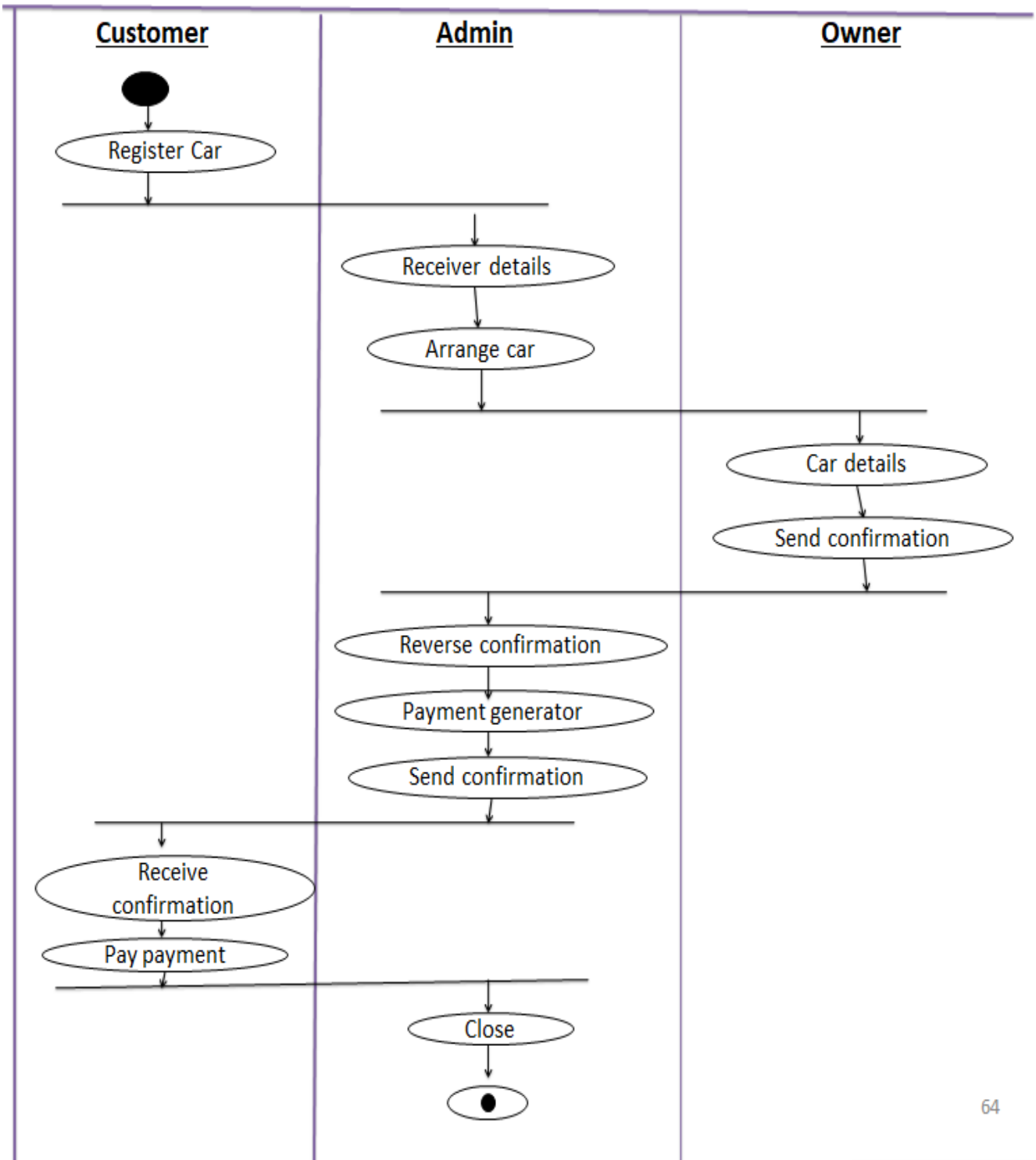
Use Case Diagram



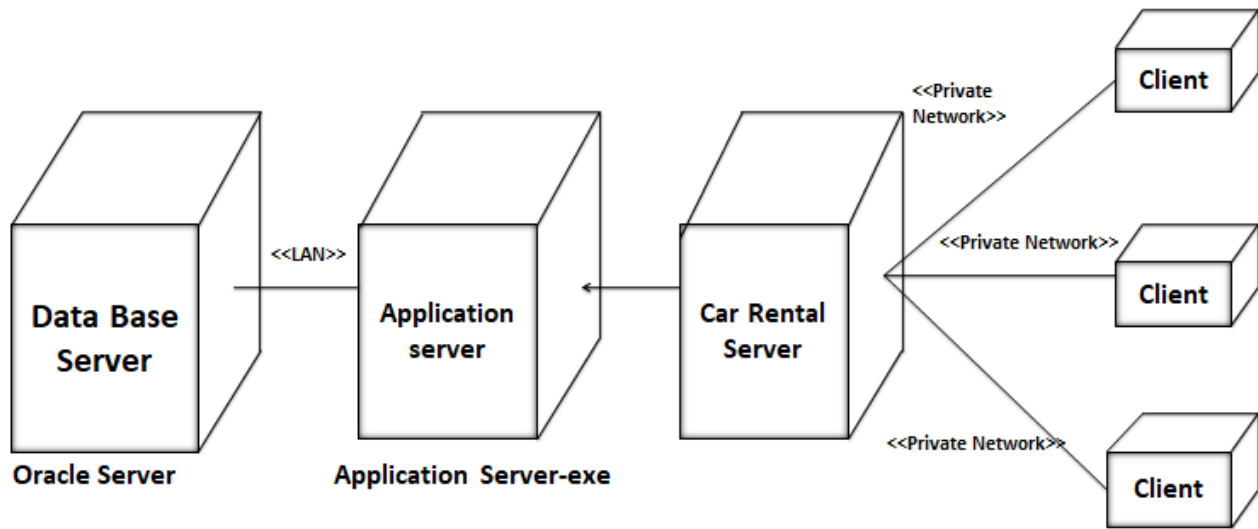
Class Diagram



Activity Diagram



Deployment Diagram



Data Dictionary

Admin

Field name	Data Type	Description
admin_id	int	Primary key
email	Varchar(20)	Not Null
password	Varchar(20)	Not Null

Customer

Field Name	Data type	Description
C_id	int	Primary key
c_name	Varchar(20)	Not Null
email	Varchar(20)	Not Null
password	Varchar(20)	Not Null
address	Varchar(20)	Not Null

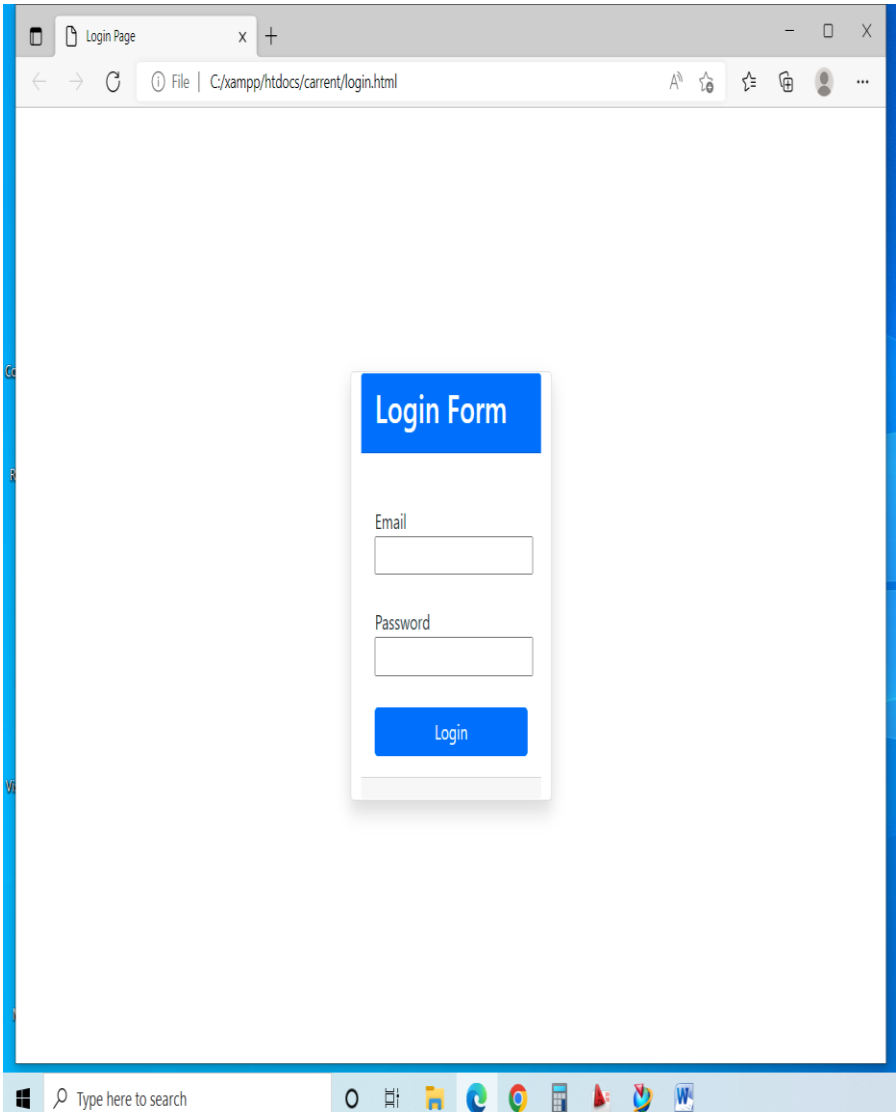
Car

Field Name	Data Type	Description
c_id	int	Primary key
c_no	int	Not Null
c_name	varchar(20)	Not Null
c_model	Varchar(20)	Not Null
c_available	Varchar(20)	Not Null

Payment

Field Name	Data Type	Description
P_id	int	<u>Primary key</u>
o_id	int	Foreign key
c_id	int	Foreign key
P_type	Varchar(20)	Not Null
p_date	date	Not Null

Login Form



Car Registration

localhost/current/carreg.php/ x +

localhost/current/carreg.php/

Car Registration

Car Reg No.

Make

Model

Available

CONCLUSION

- The present is manual processes are time consuming and prone to error.

- Manual entries cause errors while registering the data.

- The computerized system arranges all sequentially which ensures quick retrieval of required entries whenever necessary.

- It is less time consuming and more accurate.

- This is our sincere efforts to make this software stand-up to both customer as well as owner.

Bibliography

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