

# Project Phase III Report

On

Project Title

Submitted for the requirement of

Project course

BACHELOR OF ENGINEERING

COMPUTER SCIENCE & ENGINEERING



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Aptich Transport

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## ABSTRACT

The project objective is to book bus tickets in online by checking the timing of the buses travelling from one location to other location and also it deals with providing an additional facility of renting cars, motorbikes provided by general people of particular locality. This project in current scenario is only fulfilling the short distance needs. The Ticket Reservation System is an web based application that can be accessed throughout the Net and can be accessed by anyone who has a net connection. This application will reserve the tickets. This online ticket reservation system provides a platform where any user of internet can go on website and reserve tickets but there is transformation that this website don't work as the traditional once as we know with the advancement in technology needs of people are also growing so to provide a journey of our need we have introduce a care/motor bikes rental portal. User is required to login to the system and needs a credit card for booking the tickets or renting the vehicle. Tickets can be collected or downloaded online and a journey of our own comfort can be received easily. Sometimes when we think of a trip with our beloved ones all this excitement vanishes after standing in hours in long queues to get tickets booked so we are providing a complete solution with user friendly interface.. The website provides complete information regarding currently moving buses and the available seats. A person sitting far away from us can also see our movement through a code generated while booking the ticket. Ticket reservations are done using credit card and can be cancelled if needed. Our online tickets reservation system is one of the best opportunities for those who cannot afford enough time to get their tickets reserved standing in long queues. People can book tickets online at any time of day or night. Our reservation system also provides option to cancel the tickets which are reserved previously.

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## 1. Feature/characteristics identification

Planning is the strong keys to make the project more effective and well utilization of resources to achieve the goal. In this, Students have to identify characteristics of the project like how objectives are important for achieving the goal, the total time duration of the project, calculated risk, and uncertainty of the project, the total estimated cost of the project, etc. are essential characteristics of the project

Characteristics of a Project: Projects are not homogeneous. Each project is different in itself.

The distinctive characteristics of a project are as follows (**according to your Problem statement specify details in these points**):

### 1. Objectives

The Bus ticket reservation system is currently maintaining the project Transport Company's process manually which is a very time-consuming process also our portal is storing all the data about rental car/motor bikes in its backend –the total distance covered and identification of driver. It deals with transport industry's booking and transport maintenance, so it becomes a very tedious job for the booking transporter to look after these particulars to complete the task at right time. The booking system of bus ticket and rental cars not only deals with transporters owned vehicles but also takes into consideration about the other types project of system.

### 2. Single entity

A computer-based management system is designed to handle all the project primary information required to maintain the booking project system. This project intends to introduce more user friendliness in the various activities such as providing self-desired vehicle for travelling eradicating the traditional methods of travelling through only buses. The searching time table has been made quite simple as all the details are timely updated on the portal.

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### 3. Life Span

It consists of total time period for the project completion.

project was completed into nine phases it took time period of 7 weeks approximately.

Which are as following:

1. Research.
2. project planning
3. structure and design
4. interface and design
5. Mocks usability
- 6 Building and programming
7. user testing
8. workbook submission
9. Refinement

### 4. Require funds

There are lots of influencing factors that can alter the cost of development including the features, designing, efficiency of the developer

### 5. Life Cycle

**Planning and requirement analysis-** web site content which are portal for online ticket booking and rental car /motorbikes. Additional functionalities like a well-maintained database is to be introduce in our web application.

#### **Designing-**

After the purpose of the Website has been found and the content has been defined, we need to organize the content of the Website. Many ways to organize exists.

**Here are some general pointers:**

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Elements	Purpose
Titles	Use simple titles that clearly explain the purpose of the page
Headings	Use Headings to separate main topics
Horizontal rules	Use horizontal rules to separate main topics
Paragraphs	Use paragraphs to help divide large amount of data
Lists	Utilize list. Numbered or bullet when appropriate
Page length	Maintain suitable Web page lengths; about one or two pages are adequate
Information	Emphasize the most important information by placing it at the top of a Web page
Other	<input type="checkbox"/> Incorporate a contact e-mail address <input type="checkbox"/> Include the date of the last modification

### Web site testing:

A Web site should be tested at various stages of the Web design and development. This testing should include a review of page content, functionality and usability. Some basic steps to test content and functionality are:

- Reviewing for accurate spelling and proofreading content including page titles.
- Checking links to ensure that they are not broken and are linked correctly
- Checking graphics to confirm they display properly and are linked correctly
- Testing forms and other interactive page elements
- Testing pages to check for speed of loading on lower speed connection
- Printing each page to check how page s print
- Testing each Web in several different browser types and versions to verify they display correctly

### Maintenance:

Once the Web site testing is complete and any required changes have been made, the Web

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site can be implemented. Implementation of a Web site means publishing the Web site or uploading it into a Web server. Once, the Web site has been implemented, its maintenance will include updating the information content by removing the out dated one and putting in the new one. Periodical checking of the links is also necessary to ensure that they are still active.

## 6. Team Spirit

Whole the work is done team by dividing project in sub parts in a disciplinary manner.

## 7. Risk and Uncertainty

The system will not provide facility to pay the fine online by means of credit card/ Net banking. user has to pay the fine manually to account department or fine information can be sent to account department to debit the required amount from his salary.

## 8. Directions

Project is always performed according to the directions given by the customers with regard to time, quality and quantity, etc. The convenience of the supply sides of economics such as labor availability ore resources and managerial talent etc. are all secondary concerns, primary being the customer requirement.

## 9. Uniqueness

This web-based application does not only deals with traditional online ticket booking platform but it is unique in way to provide user desired transport for customers journey by providing rental facility of cars/motor-bikes.

## 10. COST:

**Domain and Hosting:** \$5 to \$1000 per month (depending on the rarity of the domain & traffic)

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**Designing Cost:** \$500 – \$1,500 (depending upon the quality of the design)

## 11. Flexibility

As it is a web based project more portals or pages can be introduced according to the need of people. Even this transformation or introduction of new facility is the result of flexibility in web-based system.

## 2).Constraints Identification

There are six major constraints in project management to consider.

1. **Time:** project was completed into nine phases it took time period of 7 weeks approximately. Which are as

- 1.Research.
2. project planning
- 3.structure and design
- 4.interface and design
- 5.Mocks usability
- 6 Building and programming
- 7.user testing
- 8.workbook submission
- 9.Refinement

2. **Cost:**

**Domain and Hosting:** \$5 to \$1000 per month (depending on the rarity of the domain & traffic)

**Designing Cost:** \$500 – \$1,500 (depending upon the quality of the design)

3. **Scope:** 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 to automate all the booking and rental procedure on an online platform.

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□ This system will lead to increase in the *ticket booking and renting* efficiency of the project **Staff** and members of the Ticket Booking Agency with little throughput.

□ This system project is made as user friendly as possible so that anyone can use it with little knowledge of system computers.

□ The *ticket booking* project will reduce the *booking* tedious job of system paperwork by keeping all the *project* details of bus ticket booking, cancelling ticket of buses and rental cabs are stored in the form database in computer's hard disk.

□ Up-to-date information of the system Performance status and other enquires.

□ We provide up to date information that is not possible manually.

#### 4. Quality:

This is a vital feature of an online booking system that will allow you to stay on top of your bookings 24/7. Having a real-time booking feature will automatically adjust your schedule to reduce the chances of booking errors such as double booking. This means that your customers can see real-time availability and make a booking when it's convenient for them no matter which time zone they live in.

Once a booking has been made, your customers will receive an immediate confirmation of their reservation. This gets rid of the hassle of needing to confirm bookings and answering phone-in availability inquiries..

#### 5. Benefits:

➤ **User Services: from user interface to user satisfaction.**

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 addition to this some more user friendly facilities are:

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*1. Centralized updation*

*2. No installations*

*3. Portable*

*4. Cross Browser*

*5. No piracy*

## ➤ **Business services – Implement business rules**

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.

## ➤ **Data Services – Provide handling and validation of 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.

## **6. Risk:**

- ☐ It puts extra load on the bus ticket booking server
- ☐ It increases the network traffic.
- ☐ Difficult to implement incremental improvements.

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### **3). Analysis of features and finalization subject to constraints**

#### **1) System study and analysis:**

1. Understand the ticket problem before you begin to create the bus ticket analysis model.
2. Develop prototypes that enable a user to understand how human machine interaction will occur.
3. Record the bus ticket origin of and the reason for every requirement.
4. Use multiple behavioral views of booking requirements like building data, function and Models.

#### **2) Features study and analysis:**

The task of categorization on the basis of features is divided into two sub-parts:

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:

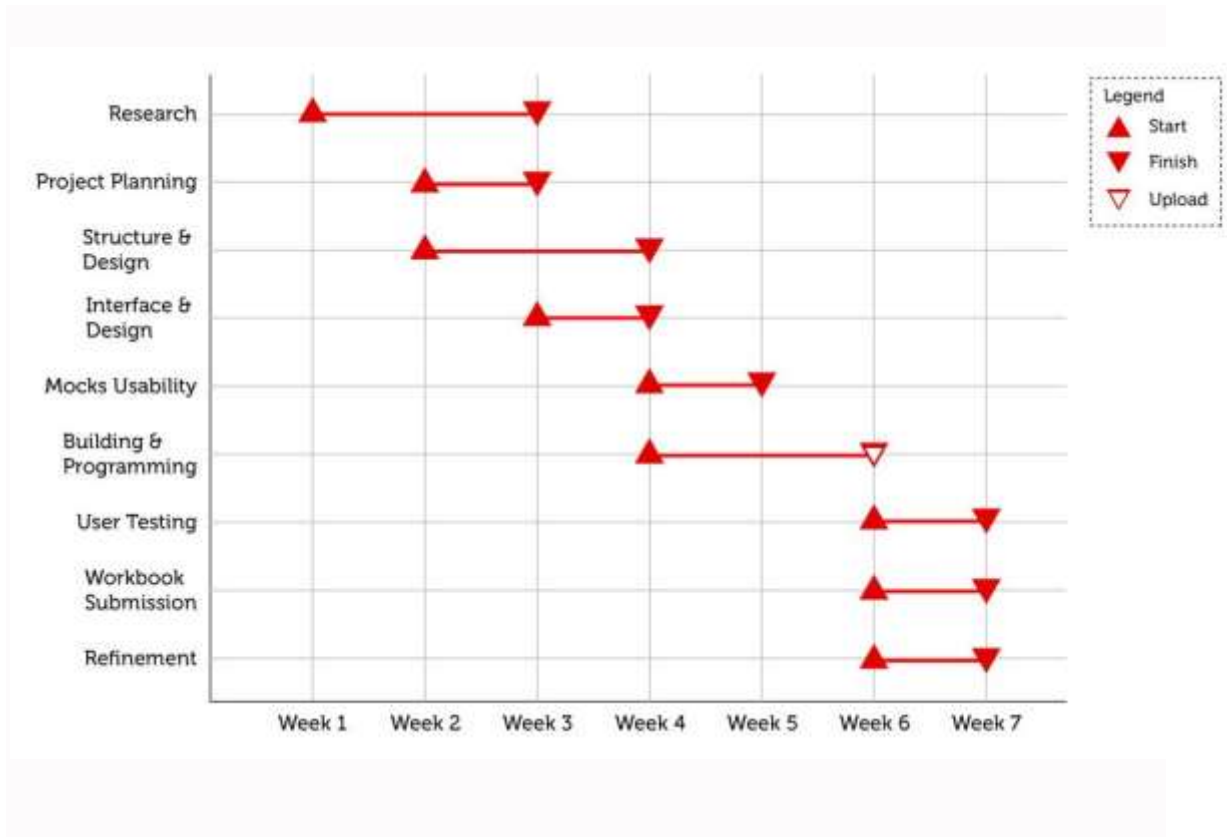
- Client-Side Interface
- Backend Operations

**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.

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3) GHANT CHART FOR THE PROJECT:

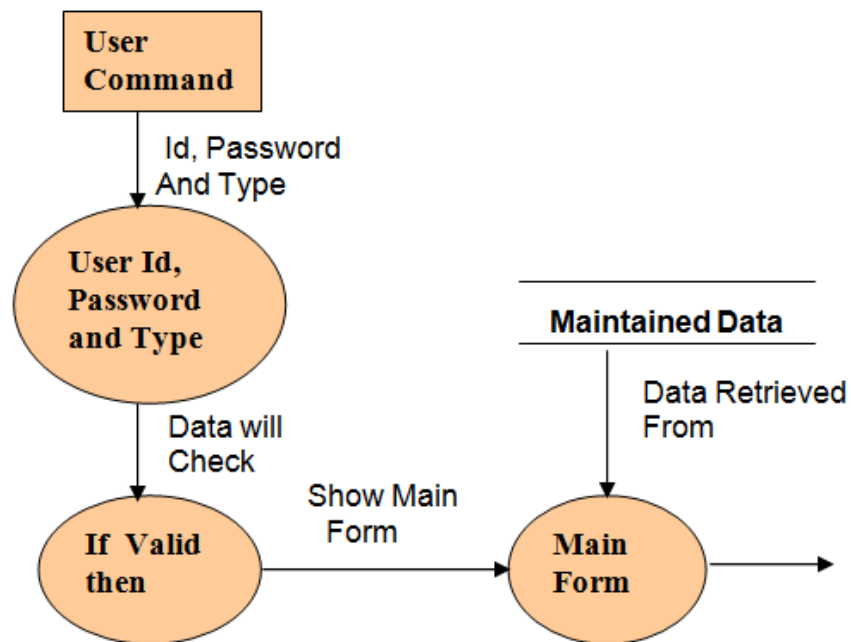


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#### 4)Design selection:

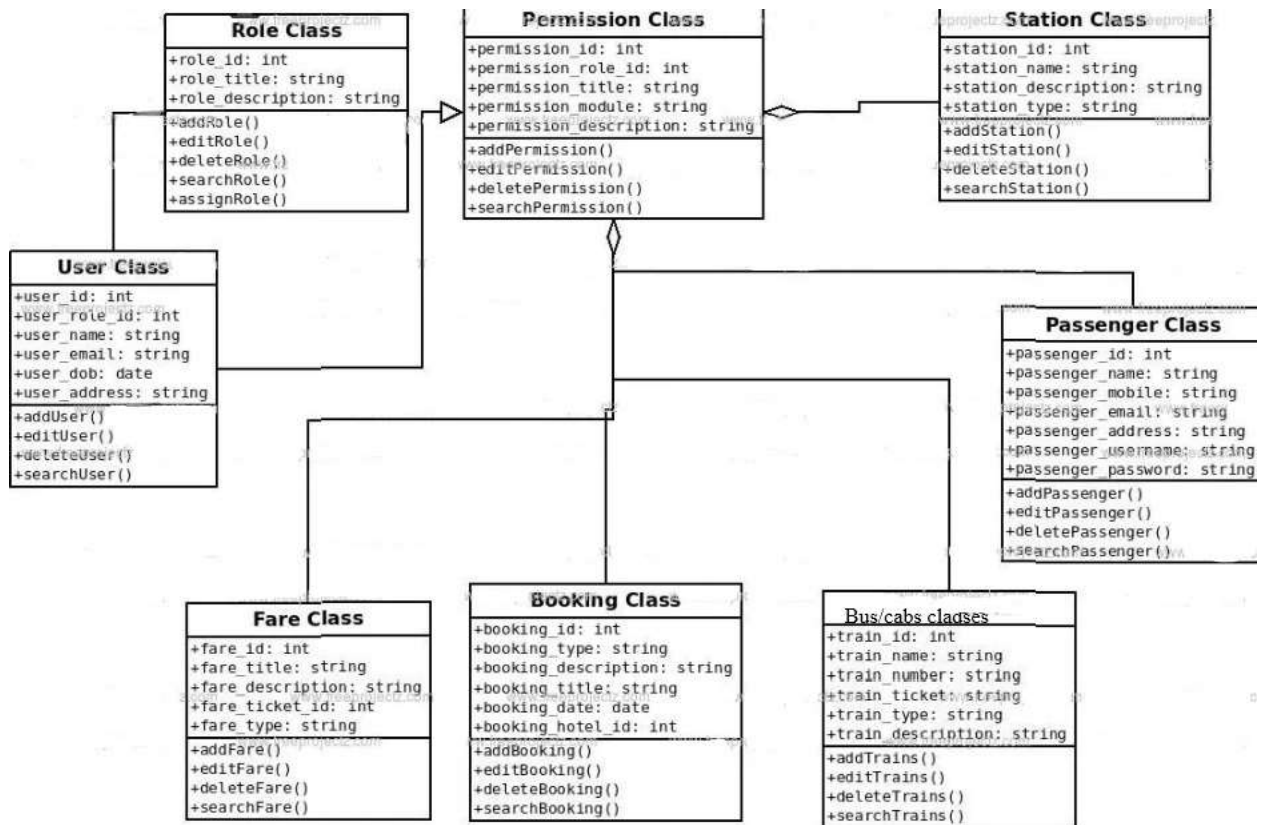
##### 1. Data flow diagram:

##### 1st Level DFD:

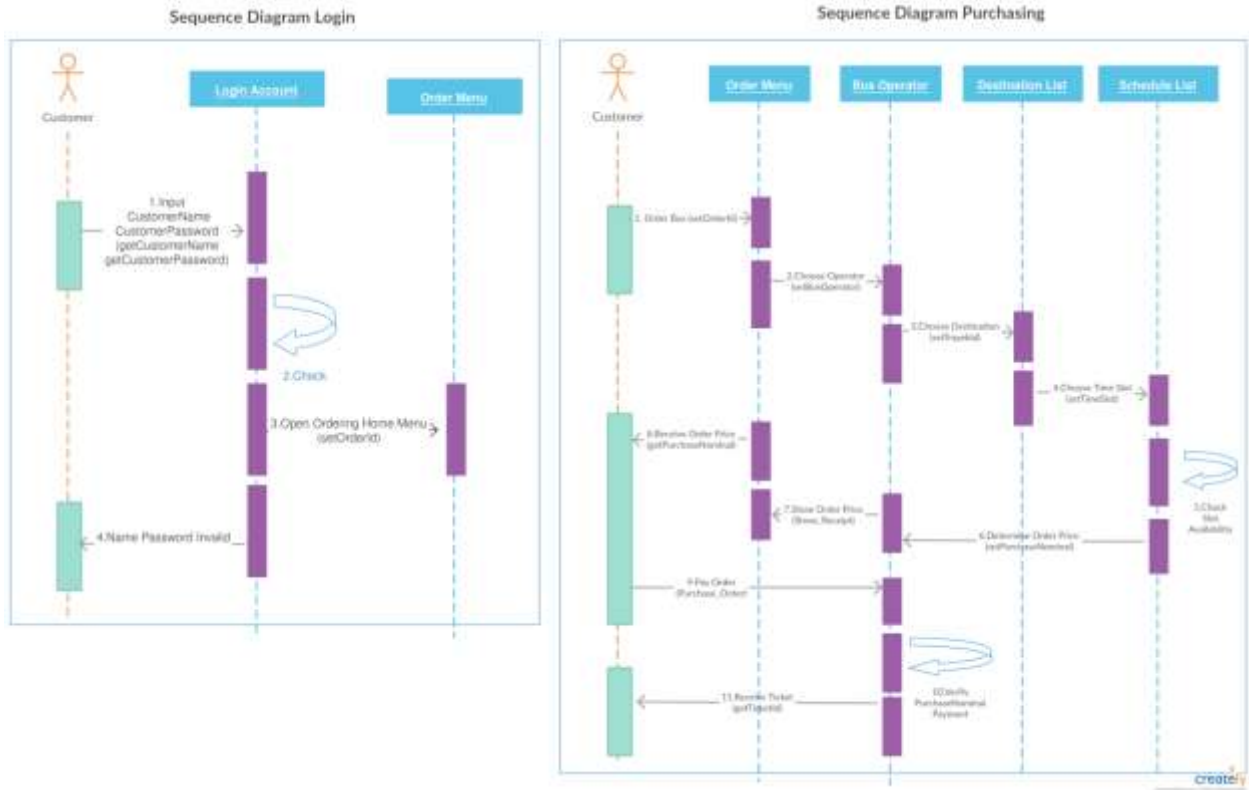


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## 2.Class diagram:



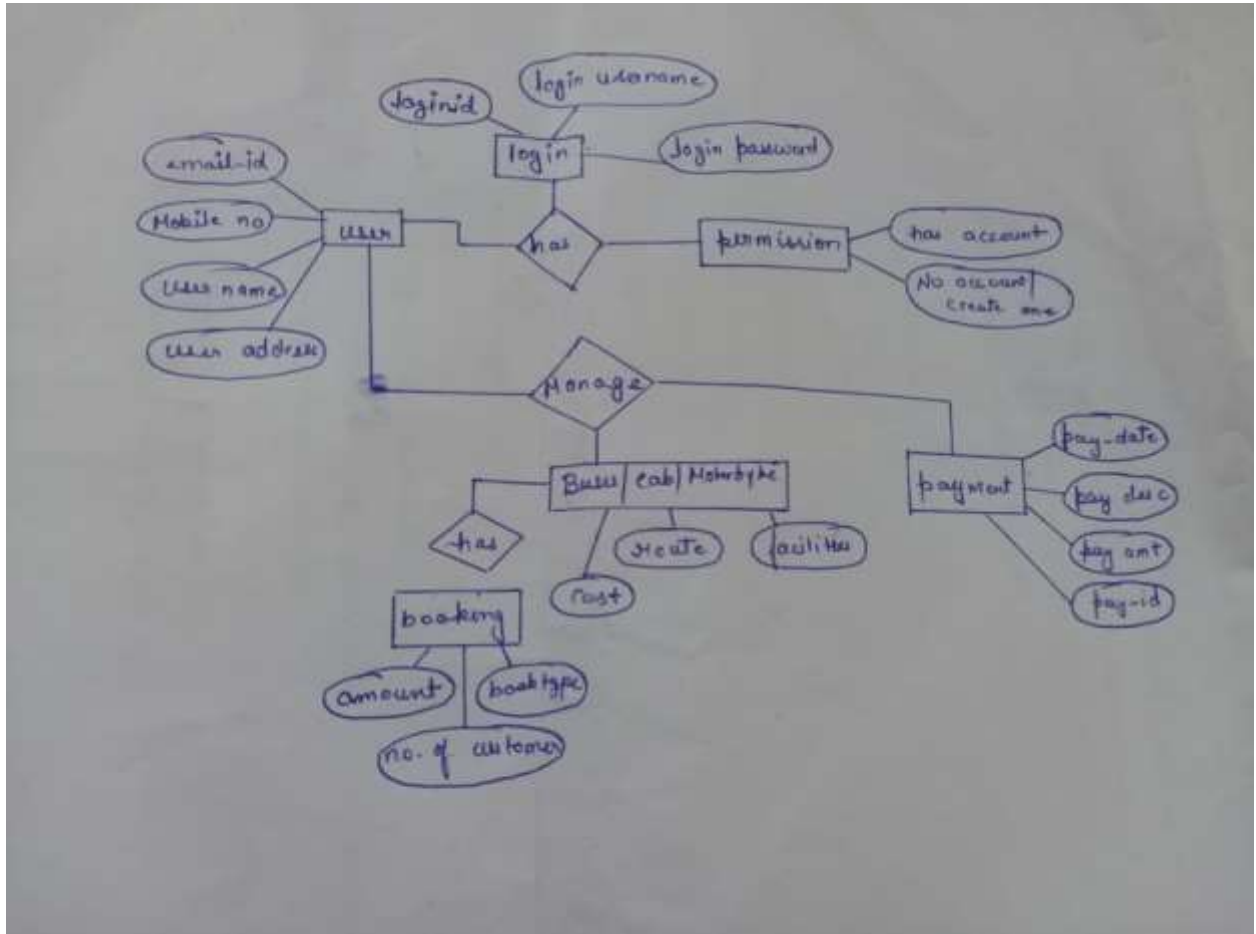
## 3.Sequence diagram:



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5.ER digram:



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