ABSTRACT

TOPIC:ONLINE CAB SYSTEM

PROJECT OVERVIEW

The main key feature or idea of the "**KUICK CAB"** is to automate the cab management. Cab service is an innovative thought to simplify the transportation of customers and is developed to maintain all cab hiring works. It is useful for car booking agency that is specialized in hiring cabs to customers. This project intends to introduce more user friendly in the various activities such as record updating, maintenance, and searching. Using this system it is very easy for customer to book a cab and cab agency can also track their booking. It is a system through which staffs can view available cabs, register the cabs, and book cabs. Mostly peoples use cab service for their daily transportations need.

The objective and scope of cab management system is to record the details of various activities of user. It will simplify the task and reduce risk. In this system cab agency do all work offline and can manage all car bookings and customer information. Staffs can book cabs and can confirm the booking and cancel the booking on the basis of availability of the cabs and drivers. This system make so easy to manage car booking for the cab booking agency and that agency 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.

1.1 PROJECT SPECIFICATION

Cab service is an innovative thought to promote customer transport with ease. In the present system, organization do maintain a person for the allocating and proper functioning of transportation .the person appointed needs to look after the booking and availability of cabs. Authorized person maintains the transportation details in papers, which is a tedious task if any updates or changes need to be done.

The proposed system should be capable of overcoming the limitations of the existing system and is more efficient. The system is designed based on the necessary requirements

of modulating various data that are related to cab management at the very click of a button. It deals with recording data while increasing ease of use and compatibility with it's users as well, while providing an easily usable interface and working mechanism. It should satisfy the need of the end user.

ADMIN

Admin controls overall management of the system. Admin approves or rejects all users (drivers) and also they can block the drivers. The drivers are approved on the basis of their aadhar identity. While doing registration to the site "KUICKCAB" users must upload their aadhar details for prove himself. After the approval the The drivers can login their account.. Admin can view the profile of registered users. He can also view the details of the booking and the details of cab. Administrator is the super user and the main controller of the cab management system. He/she controls all activities of cab management system and has complete authority over the system.

DRIVERS

Drivers must register into website "KUICKCAB" for getting access into it. This module allows the admin to manage new driver details, which consists of his or her personal details, such as name, address, age, professional details such as experience and license details to store the genuine license information. This module also helps the admin to browse through the existing list of drivers providing their corresponding edit features as well.They can also view the booking history.

CUSTOMER

Customer register into site by entering their personal details. They can view and update their details. They can view admin approved drivers and they can book their cab. They can also view the booking history. They can cancel the booking.

BOOKING

This module includes the details of booking a cab. The details are such as customer ID, cab ID, booked date and time, number of days cab is booked.

TABLE DESIGN

1. **Table Name:** tbllogin

Description: Table showing Login details.

Data Field	Data Type	Constraints	Description
Login_ID	Int(10)	Primary Key	Id of the login table
Username	Varchar(20)	Not Null	Username of person who log in
Password	Varchar(20)	Not Null	Password of person who log in
Type	Varchar(20)	Not Null	Type of user who login
Status	Int(10)	Not Null	Status of user (approved or reject)

2. **Table Name:** tblCustomer

Description: Table showing Customer details.

Data Field	Data Type	Constraints	Description
Cust_ID	Varchar(4)	Primary Key	ID of the customer
Cust_FName	Varchar(10)	Not Null	First Name of the customer
Cust_LName	Varchar(10)	Not Null	Last Name of the customer
Cust_Gender	Varchar(10)	NotNull	Gender of the vehicle
Cust_Phone	Number10)	Not Null	Phone Number
Cust_Email_ID	Varchar(10)	Not Null	Mail_id of the vehicle
Cust_House	Varchar(8)		House number of customer
Cust_Street	Varchar(15)		Street name
Cust_City	Varchar(15)		City name
Cust_Zip	Number(6)		Zip code

3.Table Name: tblDriver

Description: Table showing Driver details.

Data Field	Data Type	Constraints	Description
Driver_ID	Varchar(4)	Primary Key	ID of the driver
Driver_FName	Varchar(10)	Not Null	First Name of the driver
Driver_LName	Varchar(10)	Not Null	Last Name of the driver
Driver_Gender	Varchar(10)	Not Null	Gender of the driver
Driver_Age	Number(4)	Not Null	Age of the driver
Driver_Dob	Number(2)	Not Null	Date of Birth of driver
Driver_Phone	Number10)	Not Null	Phone Number of driver
Driver_House	Varchar(8)	Not Null	House number of driver
Driver_Street	Varchar(15)	Not Null	Street name
Driver_City	Varchar(15)	Not Null	City name
Driver_Zip	Number(6)	Not Null	Zip code
Driver_Lic	Varchar(10)	Not Null	License number of driver
Driver_Lictype	Varchar(10)	Not Null	License type of driver
Driver_LicExpiry	Varchar(10)	Not Null	License expiry of driver
Driver_BadgeNo	Varchar(10)	Not Null	License bagde number
Driver_BadgeExpiry	Varchar(10)	Not Null	License badge expiry
Driver_Veh	Varchar(10)	Not Null	Driver Vehicle Details
Driver_Status	Varchar(10)	Not Null	Status of driver

4. **Table Name:** tblVehicle

Description: Table showing Vehicle details.

Data Field	Data Type	Constraints	Description
Veh_ID	Number	Primary Key	ID of the vehicle
Driver_ID	Number	Foreign Key	ID of the Driver (Reference from tblDriver)
Veh_Plate	Varchar(20)	Not Null	Vehicle Number plate
Veh_Status	Varchar(25)	Not Null	Vehicle status/condition

5.Table Name: tblBooking

Description: Table showing Booking details.

Data Field	Data Type	Constraints	Description
Booking_ID	Varchar(4)	Primary Key	ID of the booking a cab
Customer_ID	Varchar(4)	Foreign Key	ID of the customer booking (Reference from the tblCustomer)
Assign_ID	Number	Foreign Key	ID of the assigned driver.(Reference from the tblDriver)
Pickup_Time	Date	Not Null	Date and time of pickup
Pickup_Loc	Varchar(20)	Not Null	Location of pickup
Pickup_Landmark	Varchar(15)	Not Null	Landmark to pickup location
Dropoff_Loc	Varchar(15)	Not Null	Destination of the trip
B_Status	Varchar(10)	Not Null	Booking status

6.Table Name: tblAssign

Description: Table showing Assign details.

Data Field	Data Type	Constraints	Description
Assign_ID	Number	Primary Key	ID of the assigned list
Veh_ID	Number	Foreign Key	ID of the vehicle (Reference from the tblVehicle)
Driver_ID	Number	Foreign Key	ID of the driver

7. Table Name: tbl feedback

Description: Table showing Feedback details.

Data Field	Data Type	Constraints	Description
Feed_ID	Number	Primary Key	ID of the assigned list
Name	Number	Not Null	Name of the Customer
Feedback	Number	Not Null	Feedback of the customer
Date	Date	Not Null	Feedback Date

8. Table Name: tbl Car

Description: Table showing Car details.

Data Field	Data Type	Constraints	Description
Car_ID	Number	Primary Key	ID of the Car
Car_Name	Number	Not Null	Name of the Car
Model	Vrachar	Not Null	Model of the car

9.Table Name: tblTrip

Description: Table showing Trip details.

Data Field	Data Type	Constraints	Description
Trip_ID	Number	Primary Key	ID of the trip
Booking_ID	Number	Foreign Key	ID of booking a cab
T_Date	Date	Not Null	Trip Date
T_Time	Date	Not Null	Time of trip
T_Pickup	Varchar(20)	Not Null	Pickup location of customer
T_Dropoff	Varchar(20)	Not Null	Drop of point of customer
T_Distance	Number(10)	Not Null	Distance travelled
T_Time	Number(10)	Not Null	Number of minutes traveled
T_Waiting	Varchar(6)	Not Null	To indicate if waited extra time
Pay_Date	Date	Not Null	Date and time of payment
Pay_Total	Number(10)	Not Null	Total amount paid by the customer

10.Table Name: tblCategory

Description: Table showing Category details.

Data Field	Data Type	Constraints	Description
Cat_ID	Number	Primary Key	ID of the Category
Cat_Name	Varchar(20)	Not Null	Category name
Cat_Capacity	Number	Not Null	Seating Capacity
Rate	Number()	Not Null	Rate aasigned for the corresponding Category

11.Table Name: tblSubCategory

Description: Table showing SubCategory details.

Data Field	Data Type	Constraints	Description
SubCat_ID	Number	Primary Key	ID of the subCategory
Cat_ID	Number	Foreign Key	ID of theCategory
Sub_Name	Varchar(20)	Not Null	Name of the Vehicle
Sub_Model	Varchar(30)	Not Null	Model of the Vehicle
Sub_Company	Varchar(20)	Not Null	Manufacture of the Vehicle
Sub_Year	Date	Not Null	Year in Which Vehicle was made

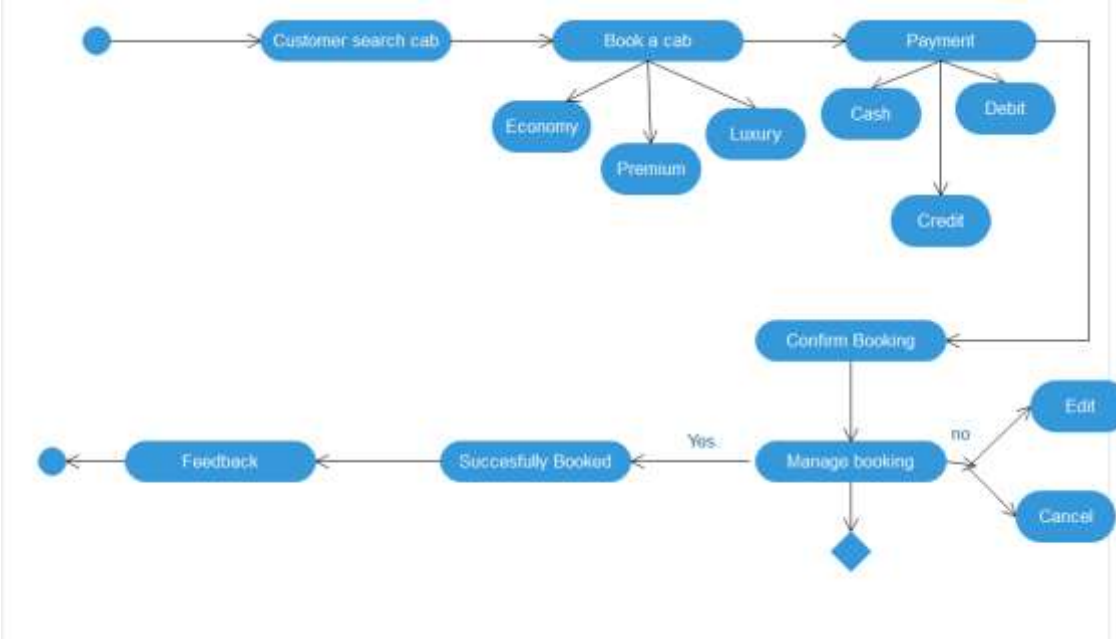
12.Table Name: tblPayment

Description: Table showing Payment details.

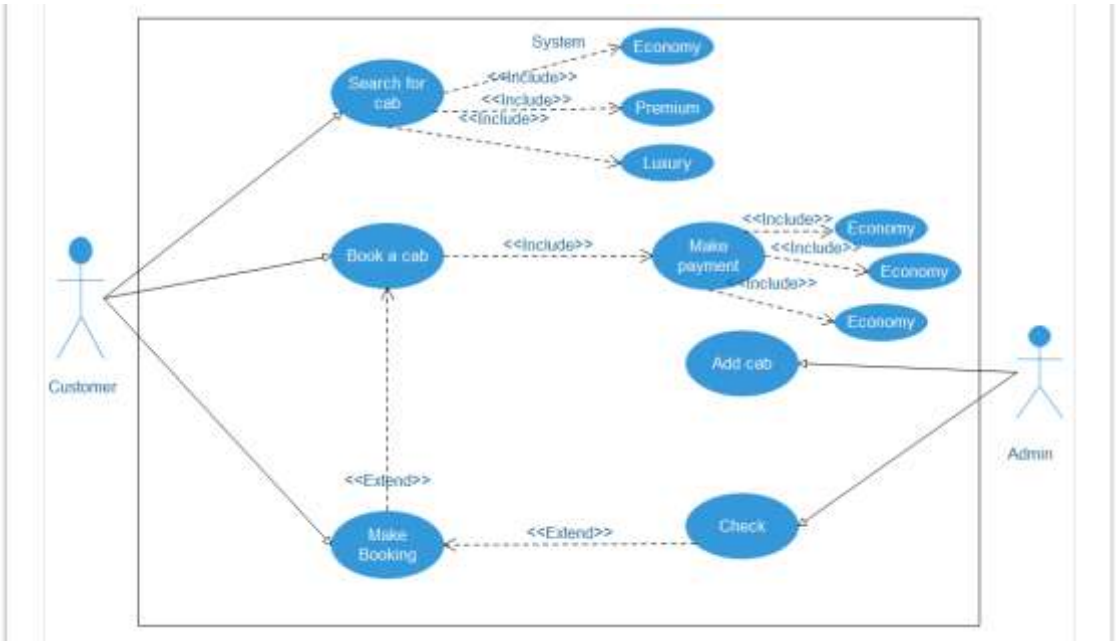
Data Field	Data Type	Constraints	Description
Payment_ID	Number	Primary Key	ID of the payment
Booking_ID	Number	Foreign Key	ID of booking a cab
Customer_ID	Number	Foreign Key	ID of Customer
Card Type	Varchar	Not Null	Type Card (Credit/Debit/Cash)
Card-holdername	Varchar	Not Null	Name of the cardholder
Card Number	Number	Not Null	Shows the Card number
Cvv	Number	Not Null	Shows the card verification value
Pay_Total	Number(10)	Not Null	Total amount paid by the customer

UML DIAGRAMS

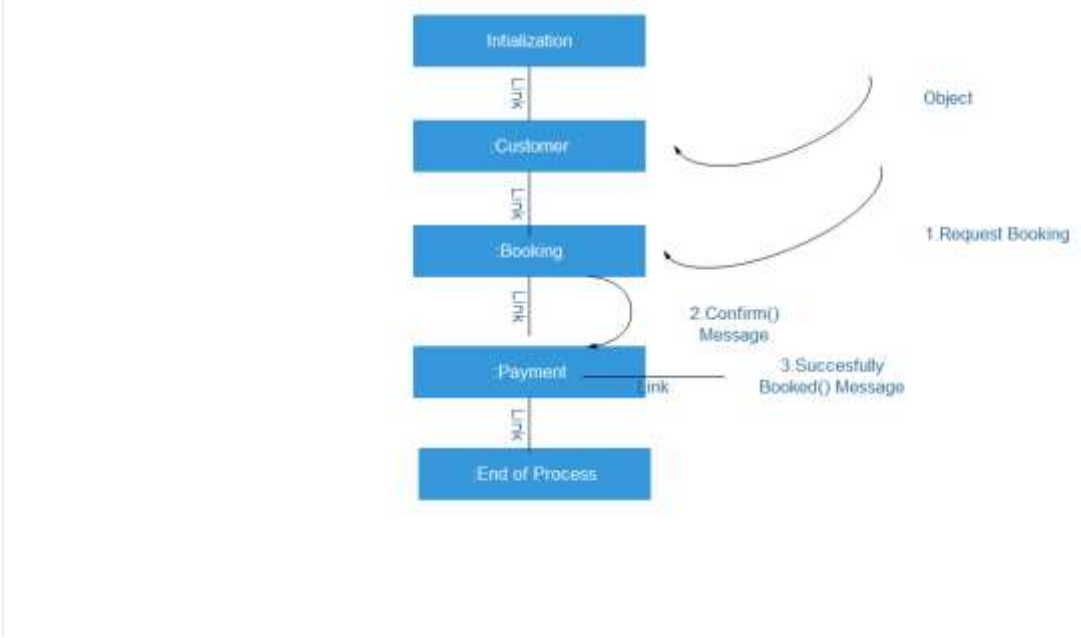
Activity Diagram



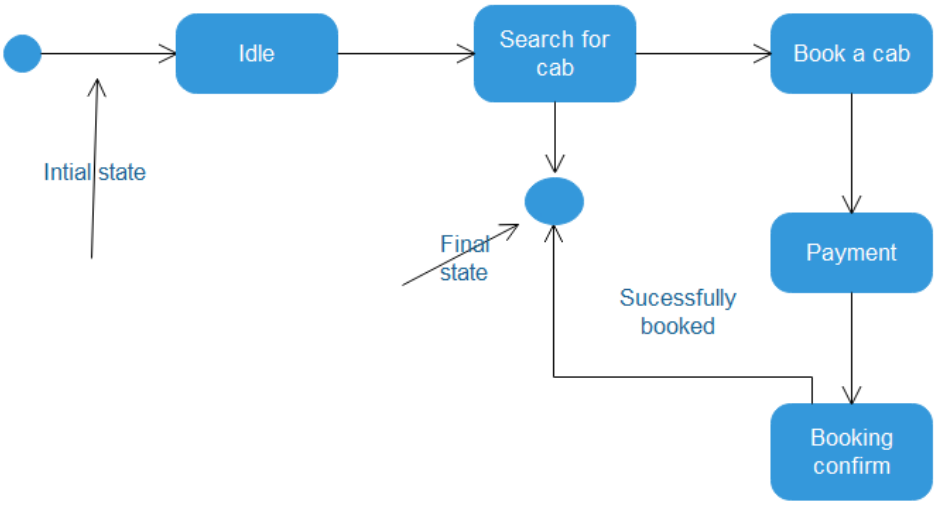
Usecase Diagram



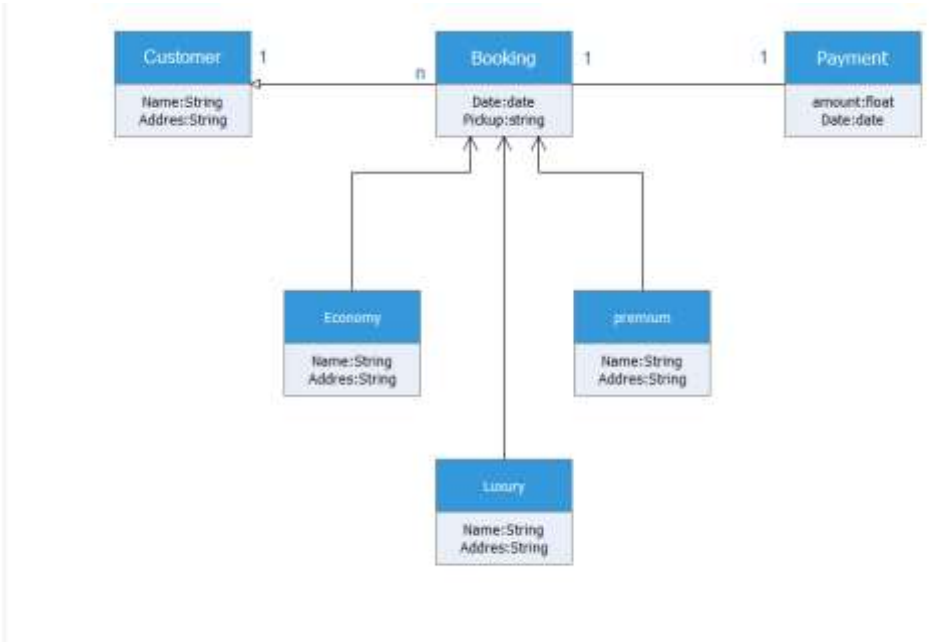
Collaboration Diagram



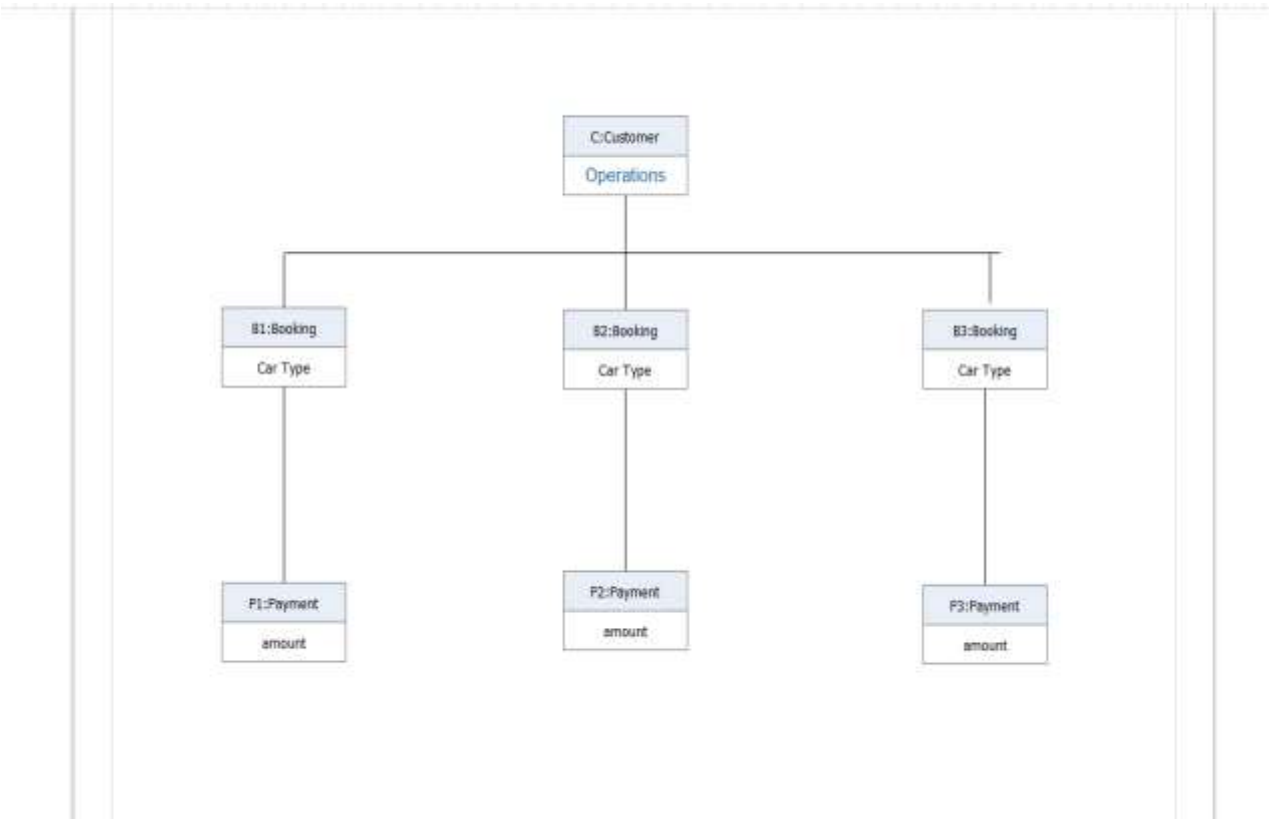
State Chart Diagram



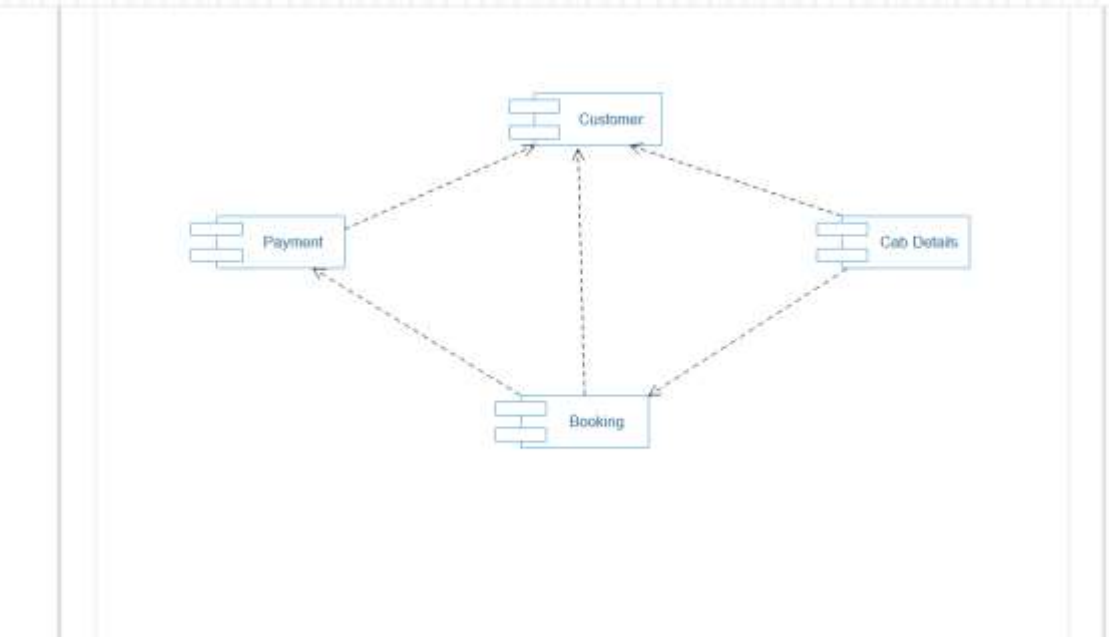
Class Diagram



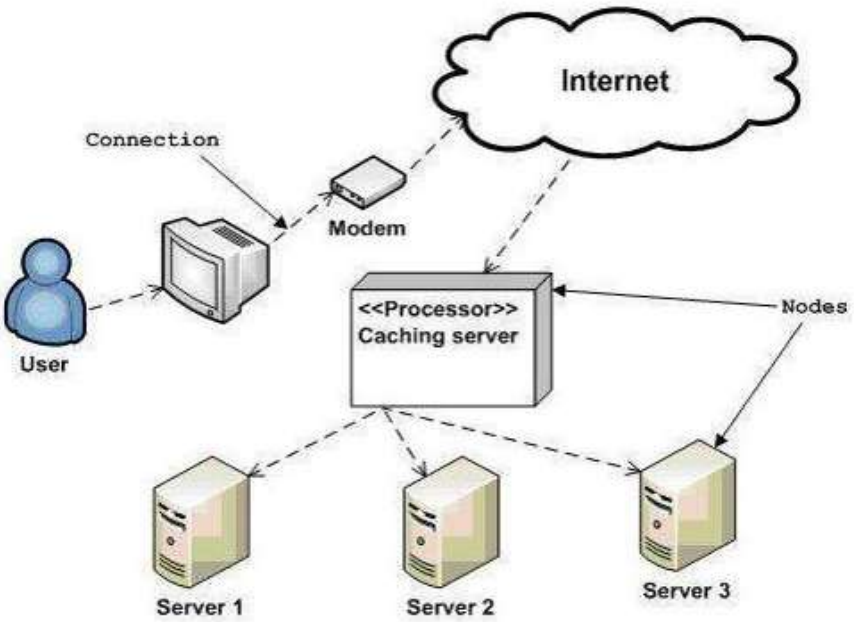
Object Diagram



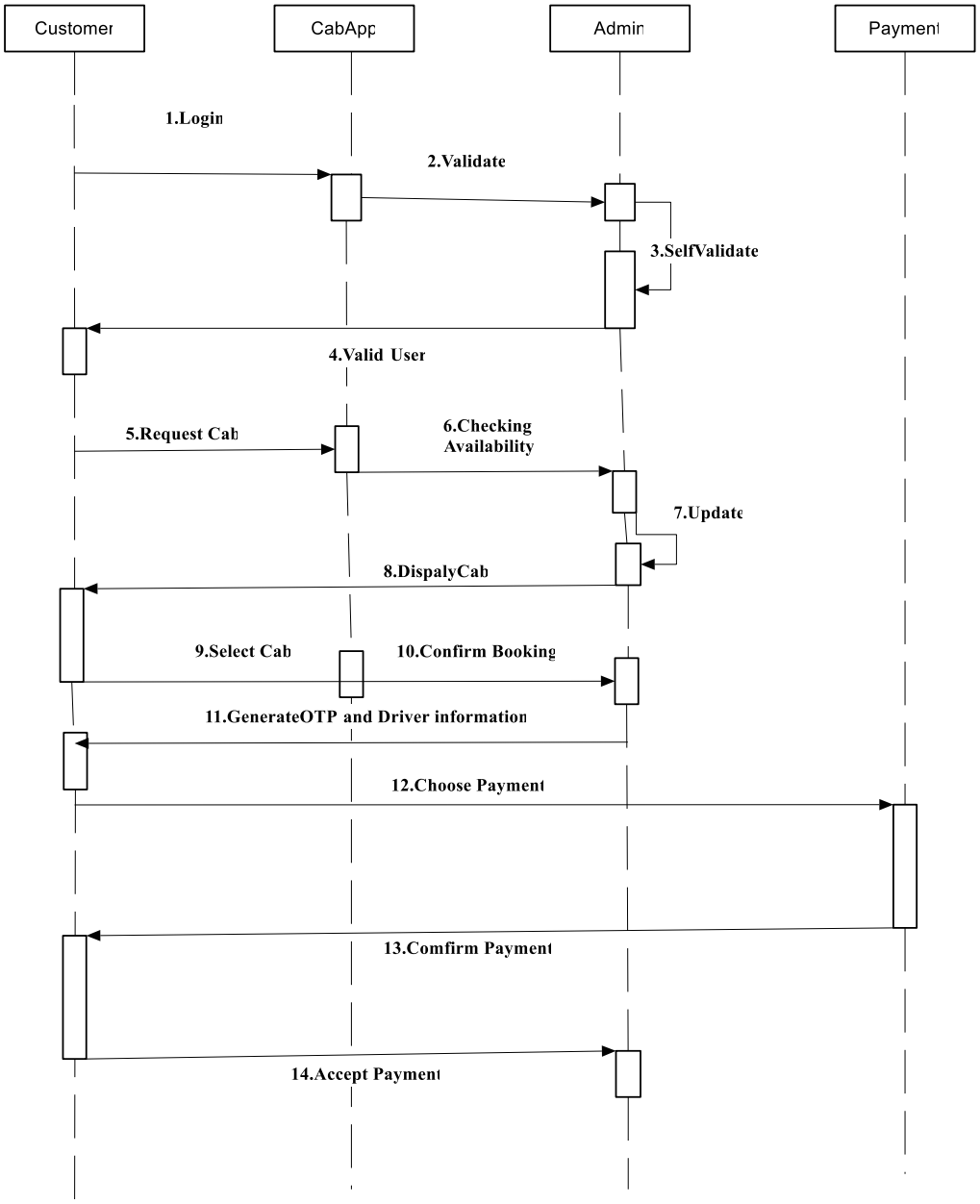
Component Diagram



Deployment Diagram



Sequence Diagram



Feasiblity Study

Feasibility study is made to see if the project on completion will serve the purpose of the organization for the amount of work, effort and the time that spend on it. Feasibility study lets the developer foresee the future of the project and the usefulness. A feasibility study of a system proposal is according to its workability, which is the impact on the organization, ability to meet their user needs and effective use of resources. Thus, when a new application is proposed it normally goes through a feasibility study before it is approved for development.

The document provides the feasibility of the project that is being designed and lists various areas that were considered very carefully during the feasibility study of this project such as Technical, Economic and Operational feasibilities. The following are its features: -

Economical Feasibility

The developing system must be justified by cost and benefit. Criteria to ensure that effort is concentrated on project, which will give best, return at the earliest. One of the factors, which affect the development of a new system, is the cost it would require.

The following are some of the important financial questions asked during preliminary investigation:

- The costs conduct a full system investigation.
- The cost of the hardware and software.
- The benefits in the form of reduced costs or fewer costly errors.

The proposed system is developed as part of project work, there is no manual cost to spend for the proposed system. Also all the resources are already available, it give an indication of the system is economically possible for development.

The cost of project, KUICKCABS was divided according to the system used, its development cost and cost for hosting the project According to all the calculations the project was developed in a low cost. As it is completely developed using open source

software the only cost was spent for hosting the project which is affordable.

Technical Feasibility

The system must be evaluated from the technical point of view first. The assessment of this feasibility must be based on an outline design of the system requirement in the terms of input, output, programs and procedures. Having identified an outline system, the investigation must go on to suggest the type of equipment, required method developing the system, of running the system once it has been designed.

Technical issues raised during the investigation are:

- Does the existing technology sufficient for the suggested one?
- Can the system expand if developed?

The project should be developed such that the necessary functions and performance are achieved within the constraints. The project requires High Resolution Scanning device and utilizes Cryptographic techniques. Through the technology may become obsolete after some period of time, due to the fact that newer version of same software supports older versions, the system may still be used. So there are minimal constraints involved with this project. The system has been developed using PHP in front end and MySQL in server in back end, the project is technically feasible for development. The system has been developed using PHP in front end and MySQL in server in back end, the project is technically feasible for development. The System used was also of good performance of Processor Intel i5 core; RAM 8GB and, Hard disk 1TB