Gokhale Education Society's

R. H. Sapat College of Engineering, Management Studies & Research, Nashik-422005

Department of Computer Engineering

SMD PBL

Class: T.E. Computer
Subject: Software Modeling and Design (310253)
Division: A
Semester: VI
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PROBLEM STATEMENT:

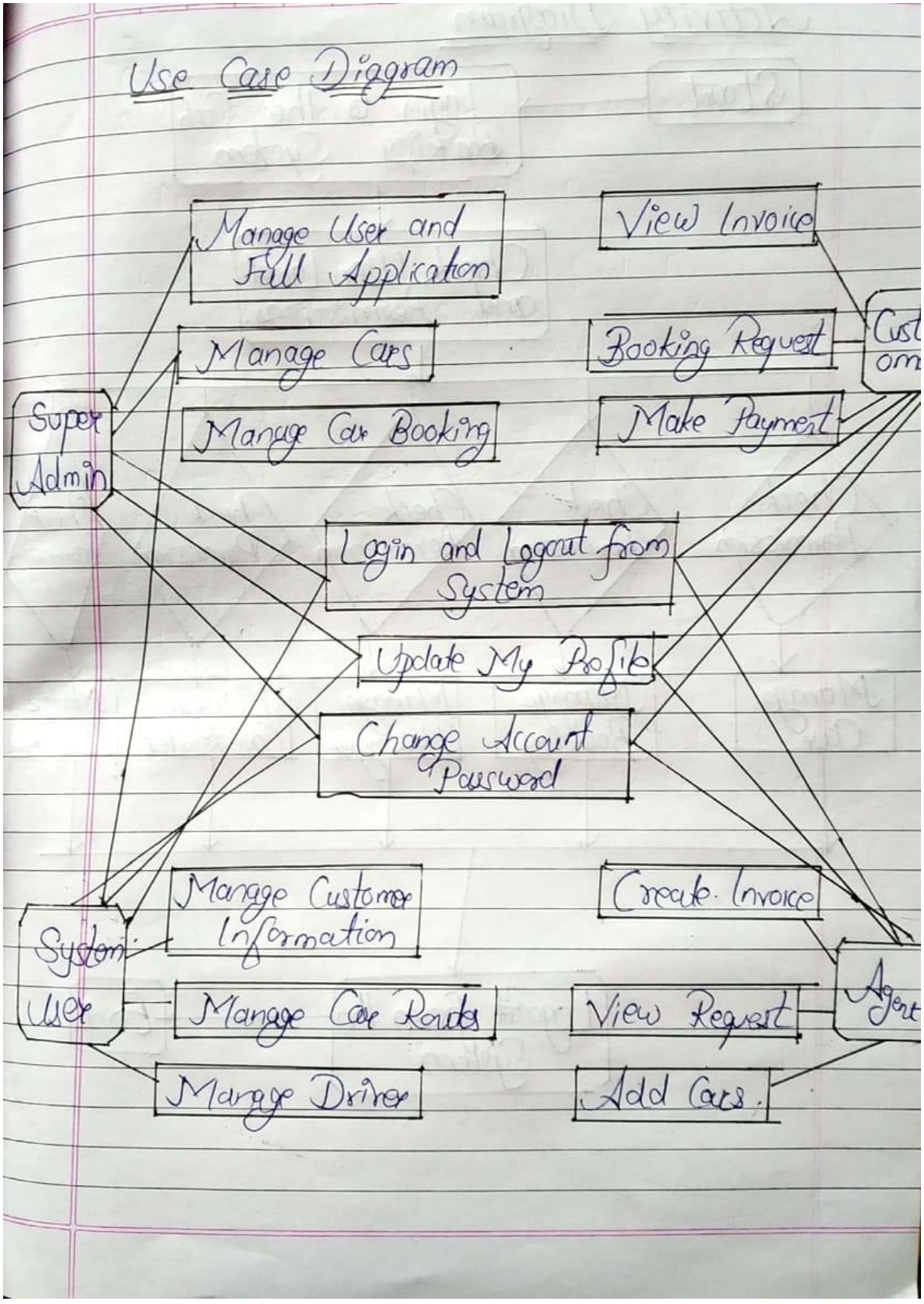
Online Cab Booking System.

INTRODUCTION:

Online Cab Booking System is developed to manage all cab hiring work online. Here the customers can book a cab /taxi/car by viewing all the cab details and pricing details available, according toselected city and area. It is the reliable service provided to both customers and Travel agencies.

1. USECASE DIAGRAM:

Use Case Diagram represents the methodology used in system analysis to identify, clarify, and organize system requirements of Cab Booking system.
The main actors of Car Rental System in this Use Case Diagram are: Super Admin, System User, Agent, Customer, who perform the different type of use cases such as Manage Cars, Manage Car Booking, Manage Passengar Informations, Manage Car Routes, Manage Drivers, Manage Users and Full Car Rental System Operations.
Major elements of the UML use case diagram of Car Rental System are shown on the picture below:-


Use Case Diagram
Manage User and Full Application
View Invoice
Manage Cars
Booking Request
Cust
om
Super Admin
Manage Car Booking
Make Payment
Login and Logout from System
Update My Profile
Change Account Password
Manage Customer Information
Create Invoice
System User
Manage Car Routes
View Request
Agent
Manage Driver
Add Cars

2. CLASS DIAGRAM:

Classes of Cab Booking System Class Diagram:

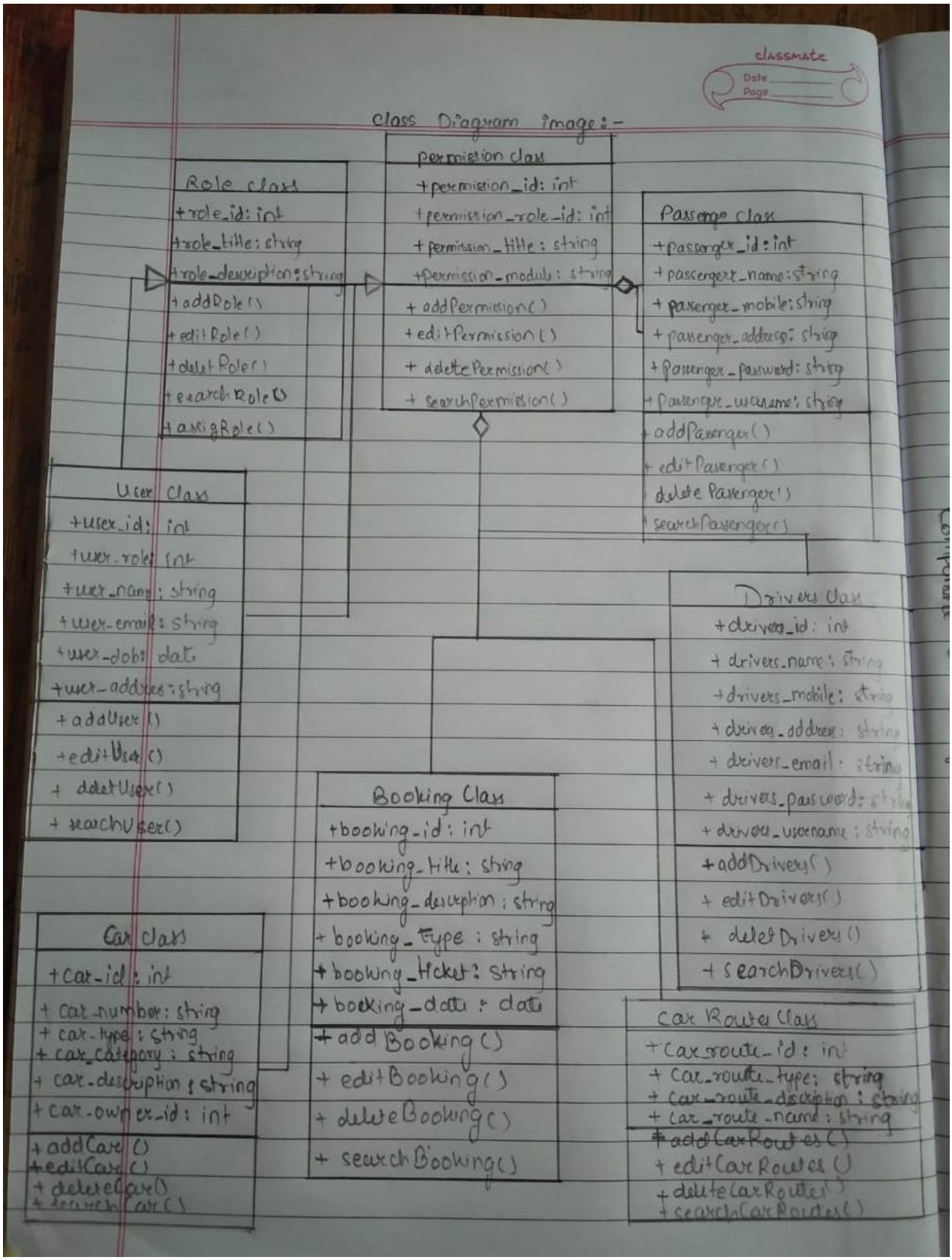
Cars Class :Manage all the operations of Cars
Booking Class :Manage all the operations of Booking
Passenger Class : Manage all the operations of Passenger
Car Routes Class : Manage all the operations of Car Routes
Drivers Class : Manage all the operations of Drivers

Classes and their attributes of Car Rental System Class Diagram:

Cars Attributes : car_id, car_driver_id, car_customer_id, car_number, car_company car_type, car_description
Booking Attributes : booking_id, booking_title, booking_type, booking_ticket, booking_date, booking_description
Passenger Attributes : passenger_id, passenger_name, passenger_mobile, passenger_email, passenger_username, passenger_password, passenger_address
Car Routes Attributes : car_route_id, car_route_name, car_route_type, car_route_description
Drivers Attributes : driver_id, driver_name, driver_mobile, driver_email, driver_username, driver_password, driver_address, driver

Class Diagram For Cab Booking System :

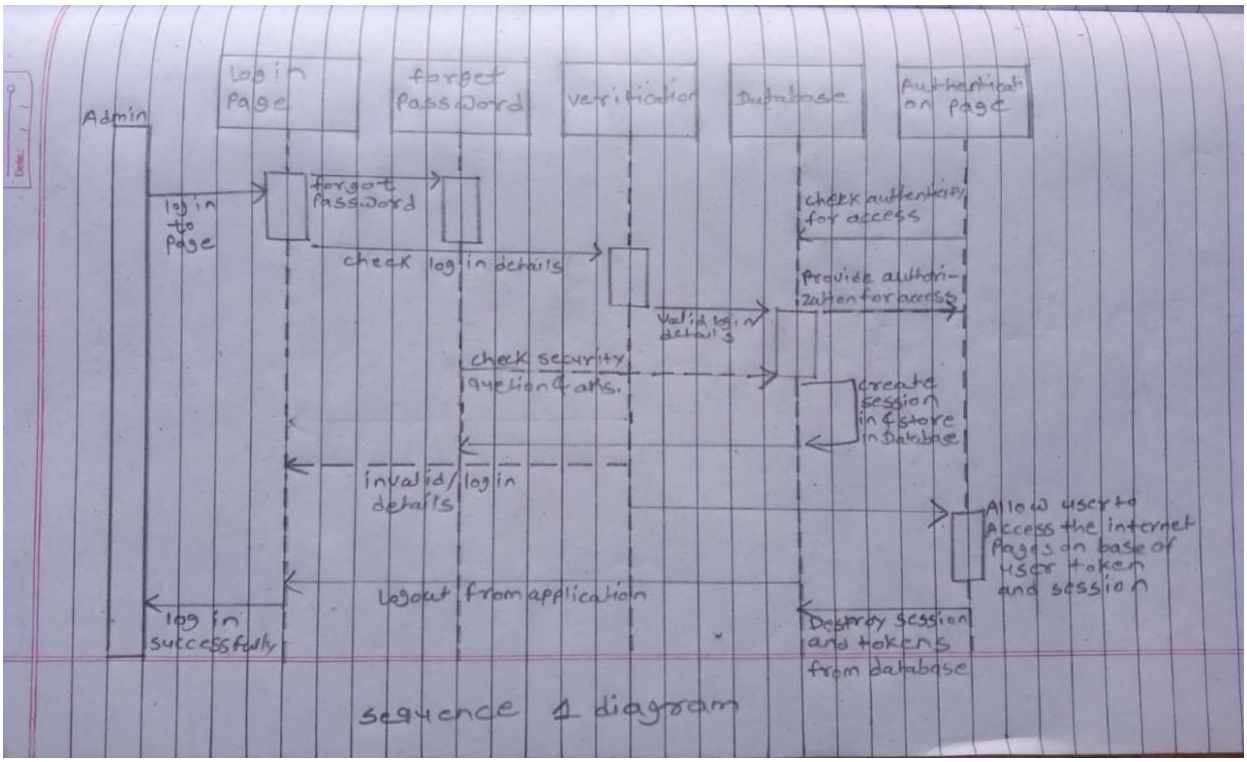
Class Diagram image :-



3. SEQUENCE DIAGRAM:

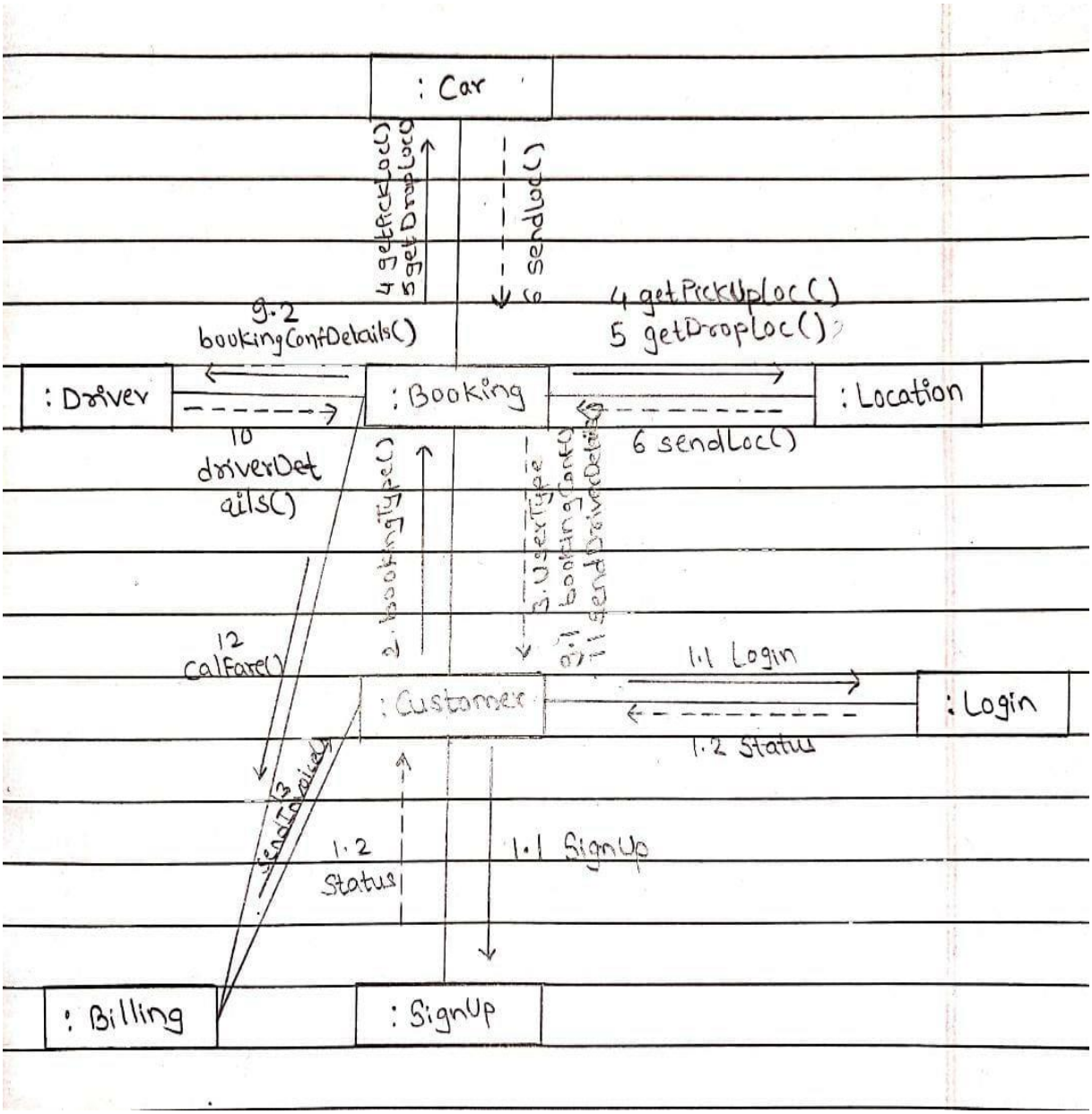
UML sequence diagram of Cab Booking System which shows the interaction between the objects of Drivers, Cars, Passengar, Car Routes, Booking. The instance of class objects involved in this UML Sequence Diagram of Car Rental System are as follows:

- Drivers Object
- Cars Object
- Passengar Object
- Car Routes Object
- Booking Object



4. COLLABORATION DIAGRAM:

Collaboration Diagram For Cab Booking System :



5. COMPONENT DIAGRAM

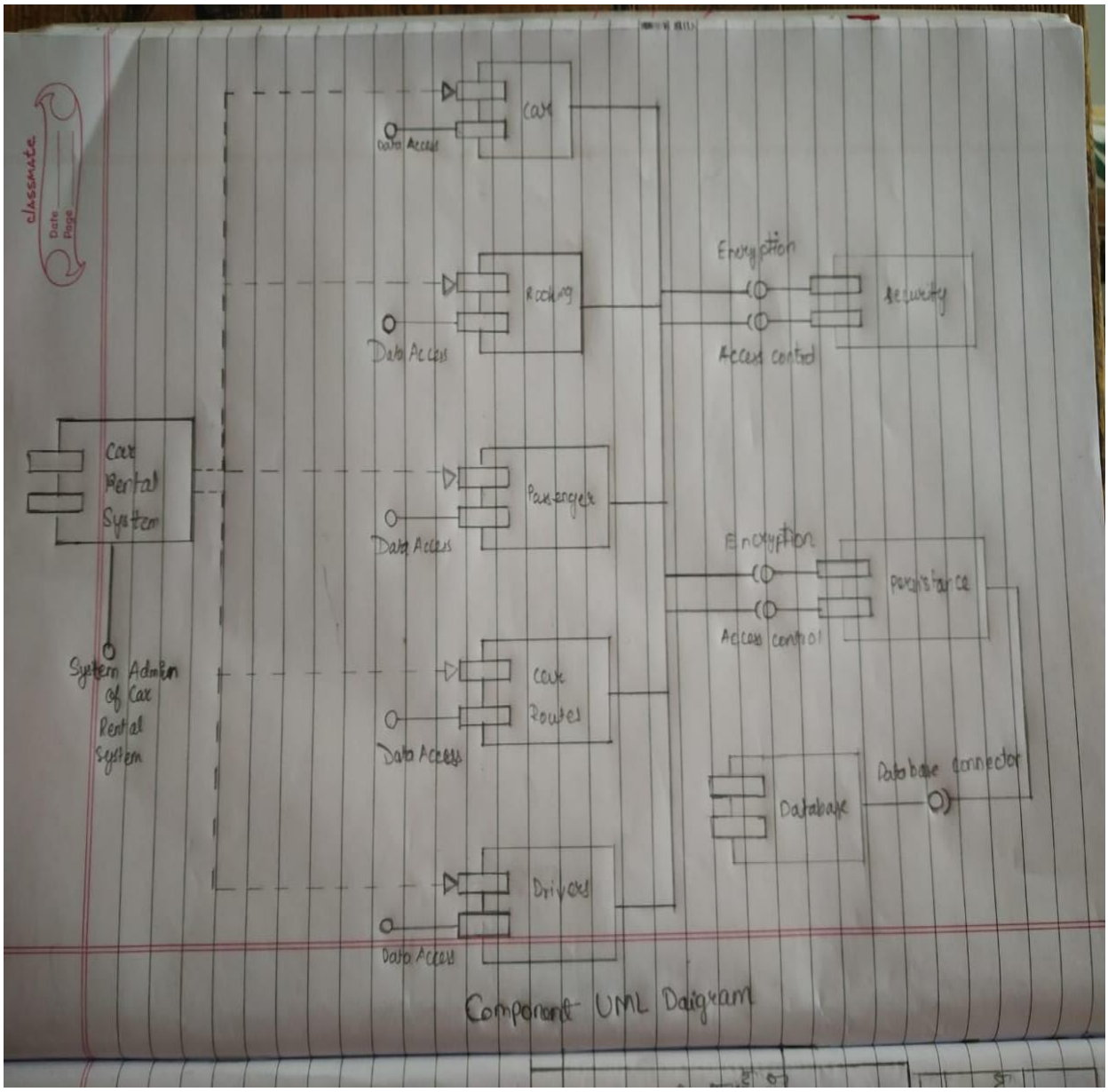
Component diagram of Cab Booking System which shows components, provided and required interfaces, ports, and relationships between the Car Routes, Drivers, Passengar, Booking and Cars.Cab Booking System UML component diagram, describes the organization and wiring of the physical components in a system.

Components of UML Component Diagram of Cab Booking System:

- Drivers Component
- Passengar Component
- Booking Component
- Cars Component

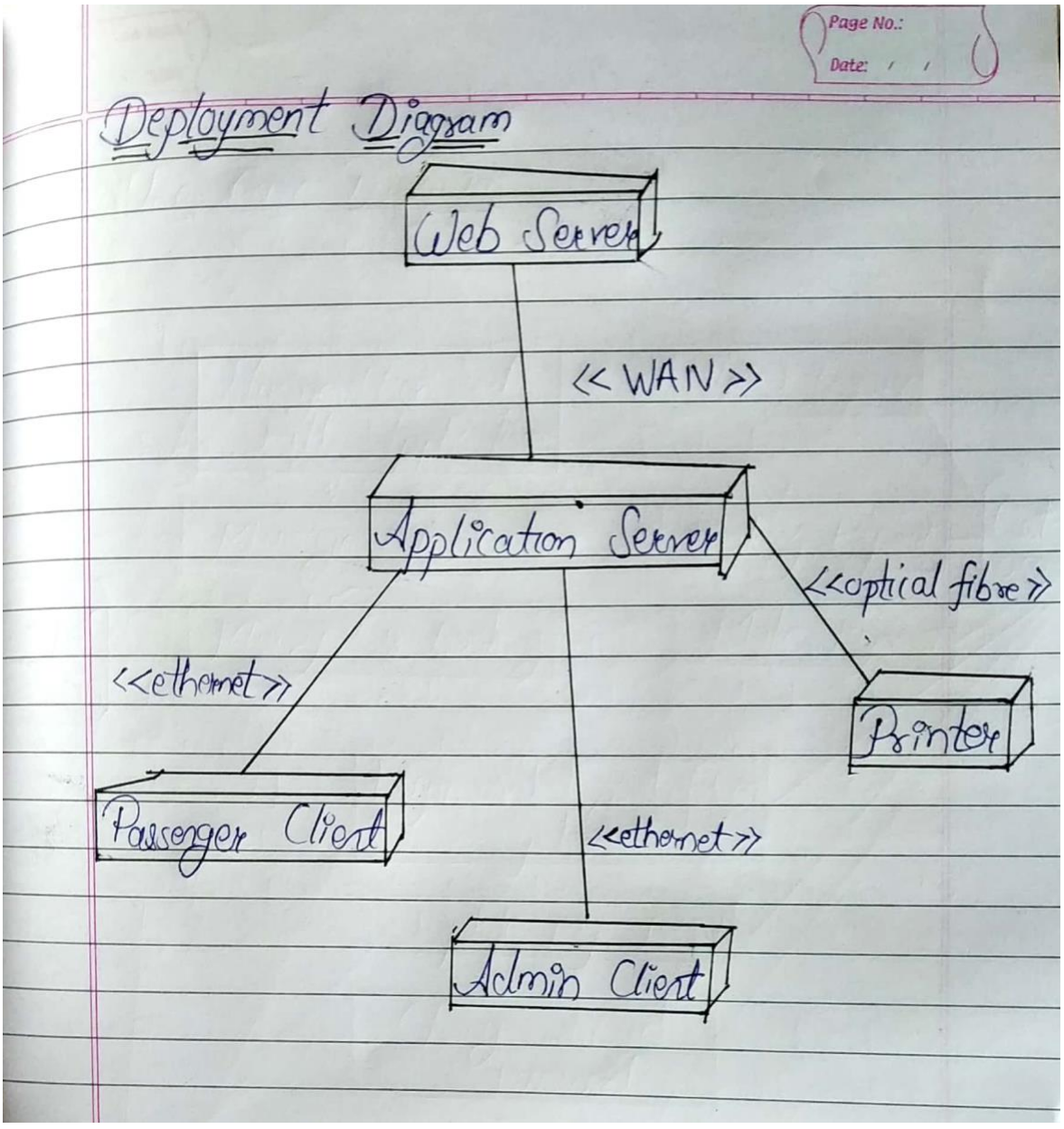
Features of Cab Booking System Component Diagram:

- You can show the models the components of Cab Booking system.
- Model the database schema of Cab Booking System.
- Model the executables of an application of Cab Booking System
- Model the system's source code of Cab Booking System


Car
Data Access
Booking
Data Access
Passenger
Data Access
Car Rental System
System Admin of Car Rental System
Car Router
Data Access
Drivers
Data Access
Encryption
Security
Access control
Encryption
Persistance
Access control
Database
Database connector
Component UML Daigram

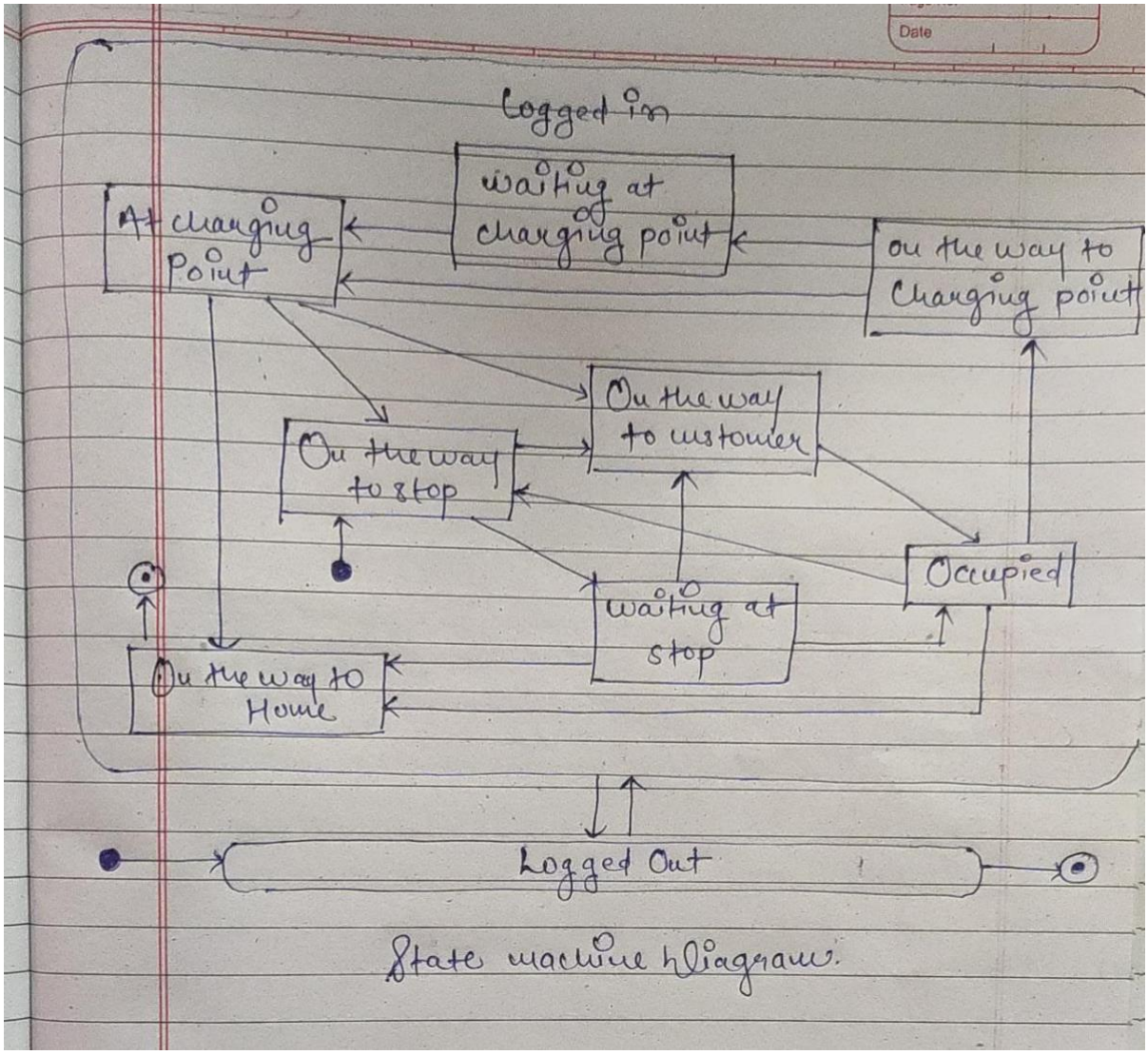
6. DEPLOYMENT DIAGRAM

Deployment Diagram For Cab Booking System :



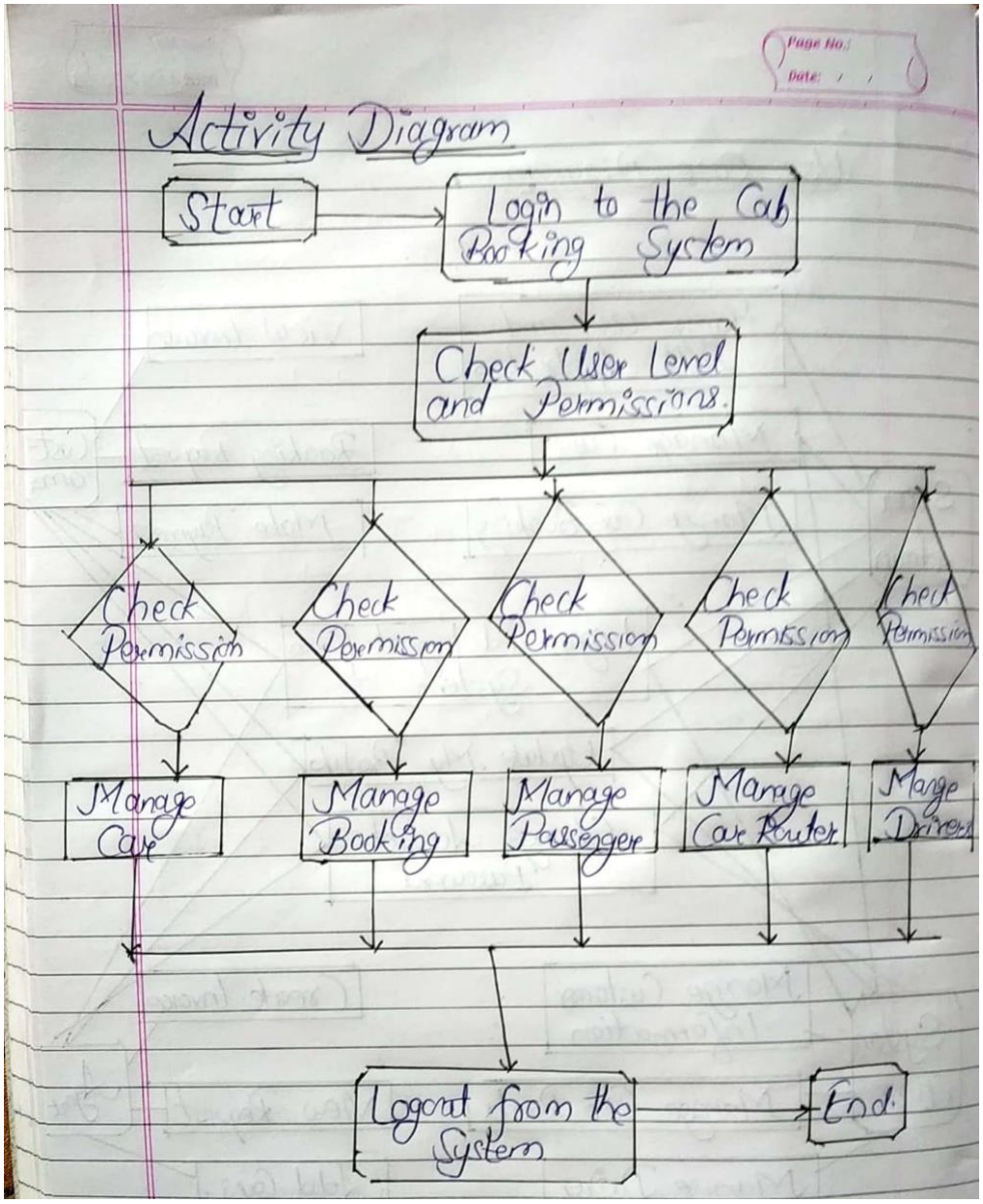
7. STATE MACHINE DIAGRAM

State Machine Diagram For Cab Booking System :



8. ACTIVITY DIAGRAM

Activity UML diagram of Cab Booking System which shows the flows between the activity of Booking, Cars, Drivers, Car Routes, Passengar. The main activity involved in this UML Activity Diagram of Car Rental System are as follows:
Booking Activity ,Cars Activity,Drivers Activity ,Car Routes Activity Passengar Activity.



CONCLUSION:

Online cab Booking system allow the project manager to maintain all needed details regarding Cab management, route management, passenger management and drivers management.