AMRITA VISHWA VIDYAPEETHAM

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

19CSE204 – OBJECT ORIENTED PARADIGM

GROUP PROJECT

CAR RENTAL SYSTEM

Car rental system is an online system where customers can rent different kinds of cars of their interest. The main aim of this project is to design and develop a database for the car rental company to maintain the records of different types of information such as customer details, different cars details and it would be easy to keep track of different cars. This system simplifies the assignment of different cars and also increases the efficiency as it attracts many new customers.

This system makes the customers work to search for cars easy as all the details about the availability of different cars are available. This system also helps the car rental company to find the customers easily.

GROUP MEMBERS:

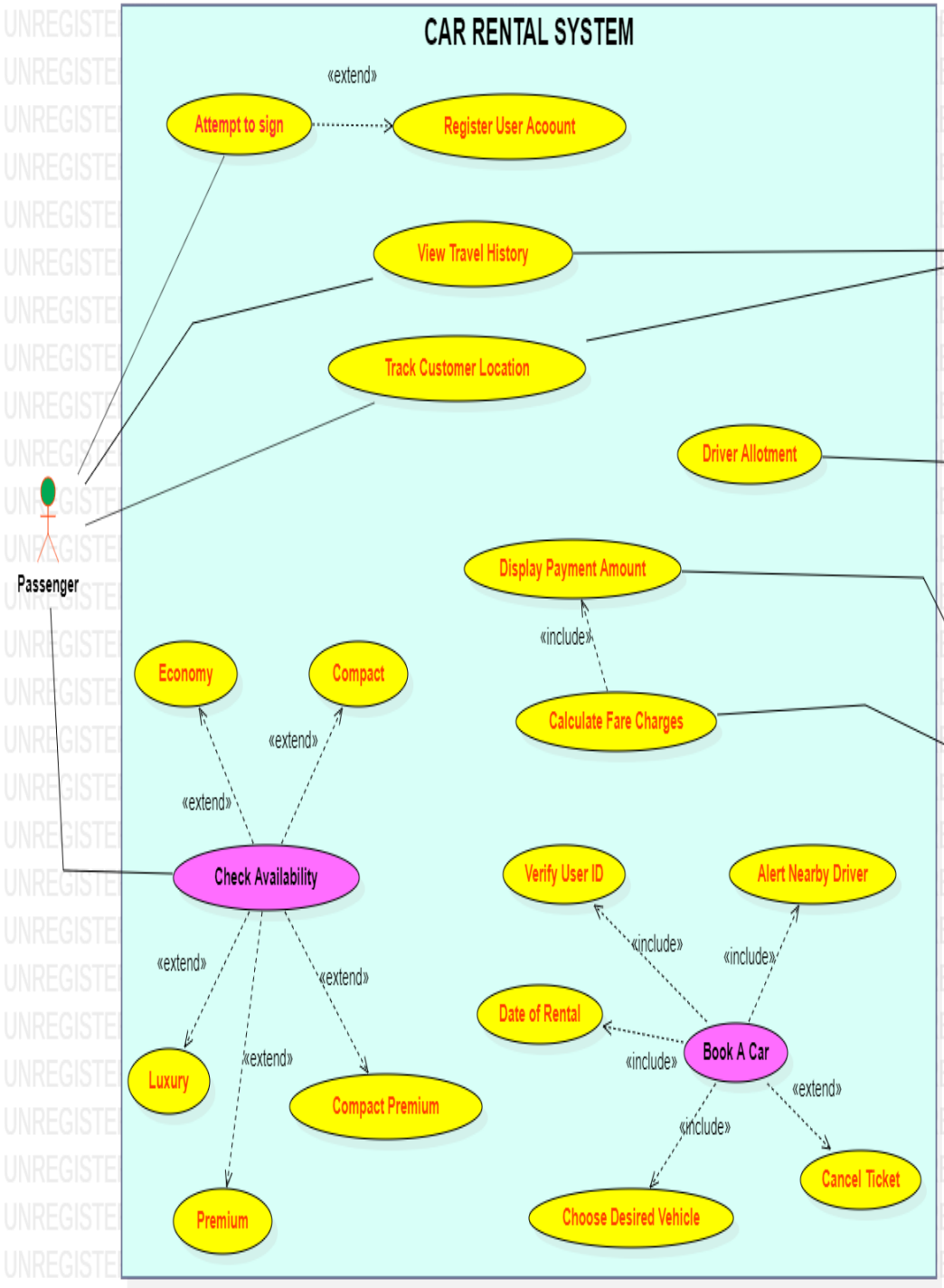
S.No	STUDENT NAME	ROLL NO.	DIAGRAM
1.	R.ABHINAV	CB.EN.U4CSE19453	USE CASE DIAGRAM
2.	S.SHANTHAN	CB.EN.U4CSE19459	OBJECT MODEL
3.	P.KOUSHIK	CB.EN.U4CSE19449	CLASS DIAGRAM
4.	A.HEMANTH	CB.EN.U4CSE19405	SEQUENCE DIAGRAM

USE CASE DIAGRAM:

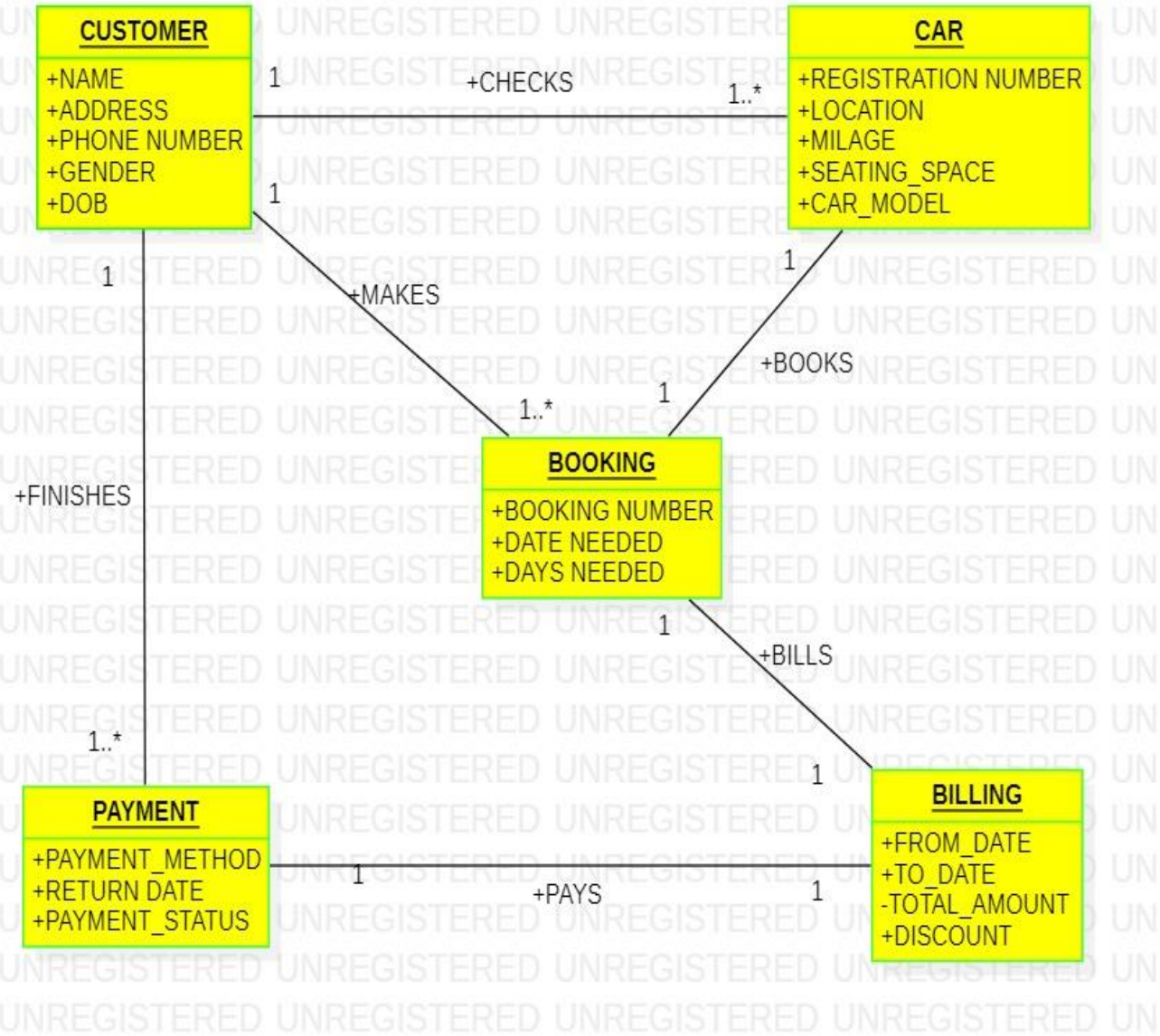
FUNCTIONALITIES OF THE SYSTEM:

Usecase Name	Explaination	Actors Involved
Attempt to Sign-in	Searches through the server database to find the user profile for authentication.	Passenger, Server
View Travel History	Displays your past records of travels and transactions	Passenger, Server
Track Customer Location	Uses the phone gps to send your location to the driver for easy pick-up process	Passenger, Server
Check Availability	Checking the availability of the desired vehicle of choice	Passenger
Book a Car	Provides all the necessary features that one would expect while booking a car.Like verification of user-id,alerting a nearby driver,cxhoice of desired vehicle,date of rental and cancellation of ticket if needed.	Passenger, Driver
Calculate the Fare Charges	As the name suggests,it calculates the amount to be paid by the customer.In considers various factors such as route taken,traffic density,car used,date of rental,etc.	Driver
Driver Allotment	Aparticular customer gets alloted to the nearest driver	Driver

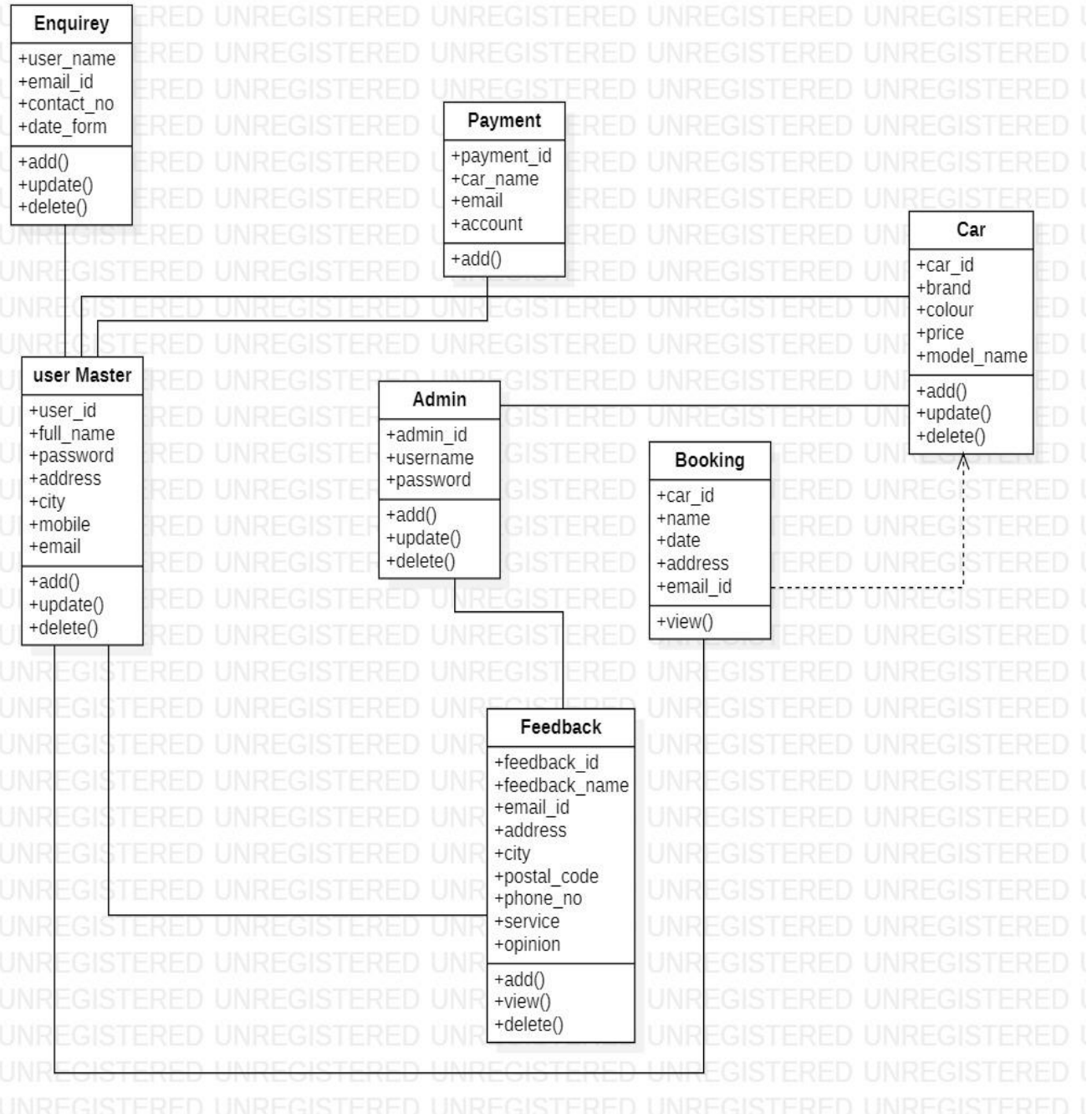
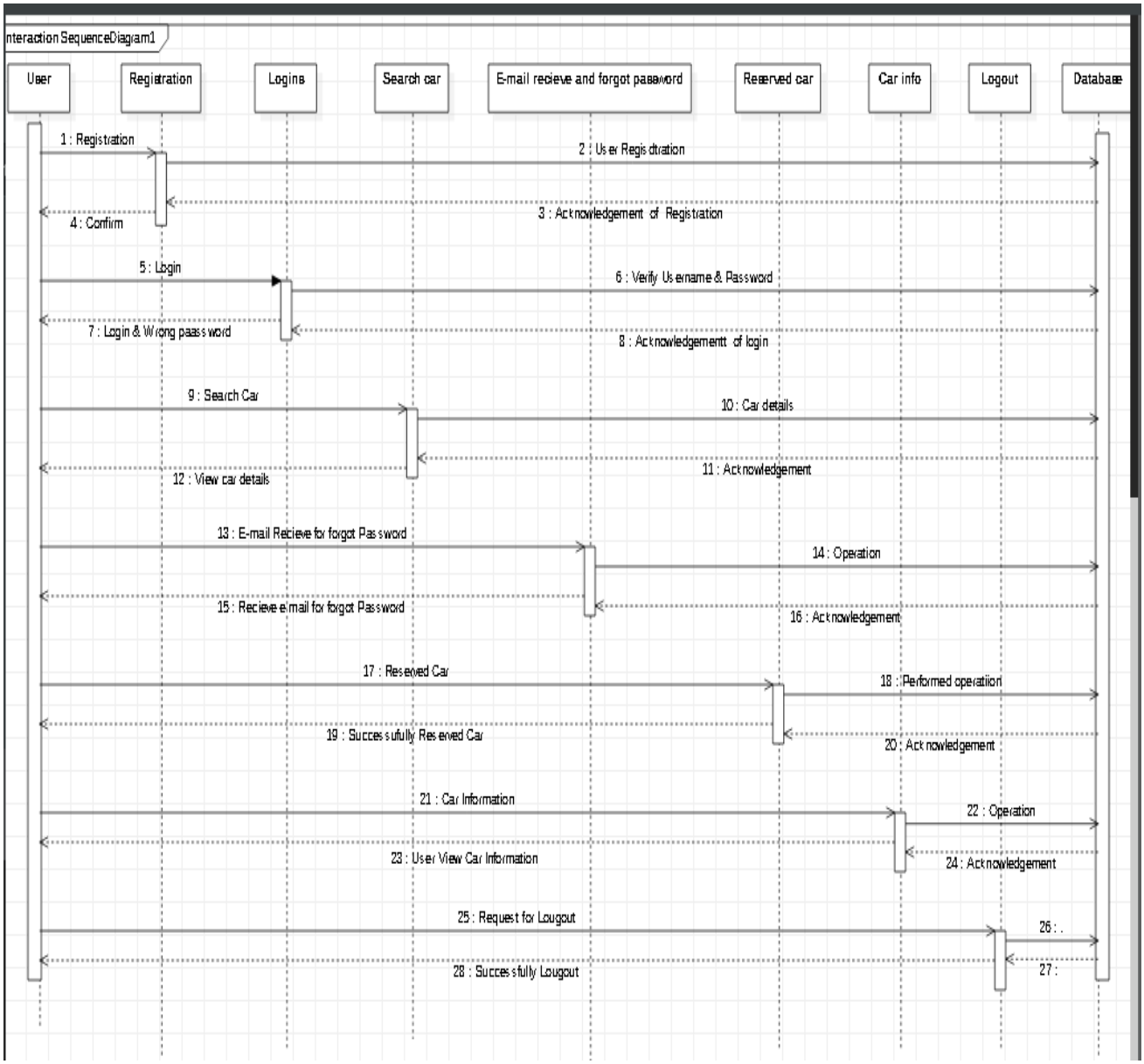
USE CASE DIAGRAM



OBJECT MODEL



CLASS DIAGRAM



SEQUENCE DIAGRAM