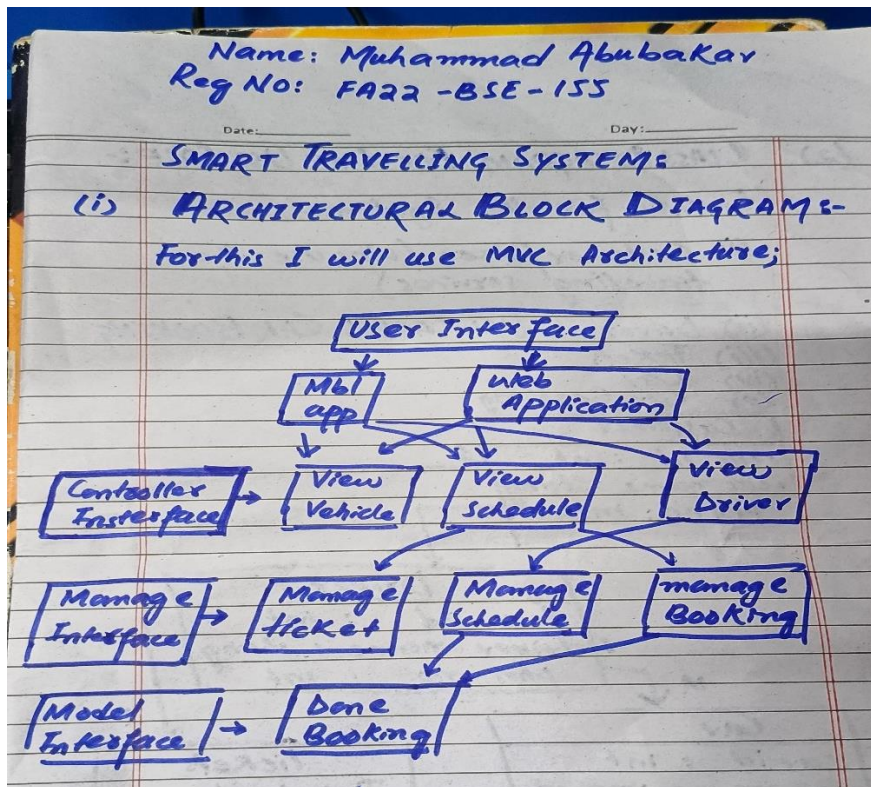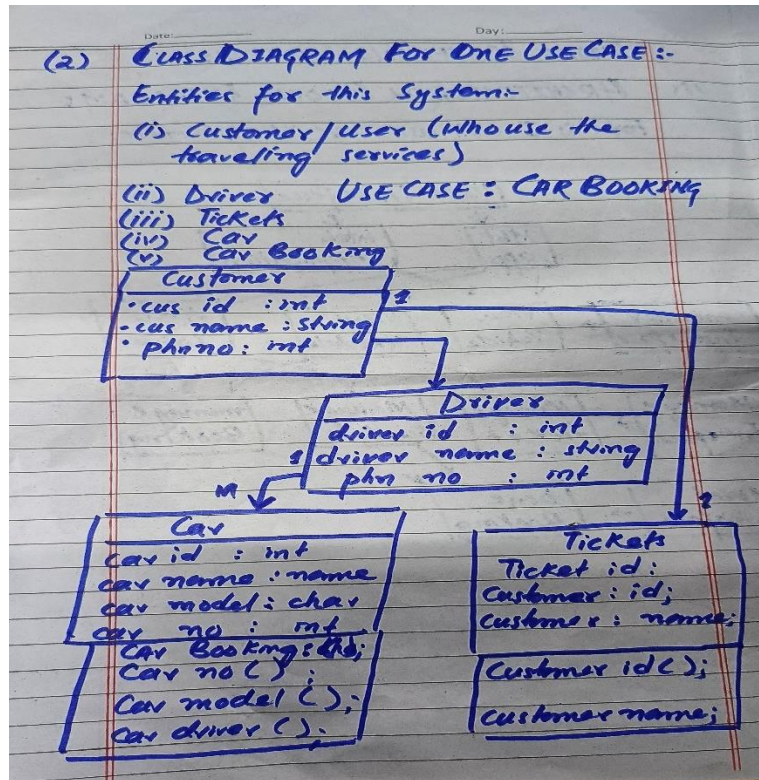Name: muhamamd abubakar

Rag no: fa22-bse-155Architectural block diagram:

Class diagram using a use case booked a car:

(2) CLASS DIAGRAM FOR ONE USE CASE :-

Entities for this System:-

(i) Customer / User (whouse the traveling services)

(ii) Driver   USE CASE : CAR BOOKING

(iii) Tickets

(iv) Car

(v) Car Booking

Customer
- cus id : int
- cus name : string
- phn no : int

Driver
driver id   : int
driver name : string
phn no   : int

Car
car id : int
car name : name
car model : char
car no : int
Car Booking : id;
Car no ( );
Car model ( );
Car driver ( );

Tickets
Ticket id :
Customer : id;
customer : name;
Customer id ( );
customer name;

State diagram for object car:

STATE DIAGRAM:

For my Scenario according to me Driver and Car both the object can be able to change their state because we can change the driver with another driver and also changes the car with another car. So; I will make a state diagram For Car;

```
  ●  →  ┌────────┐  →  ┌────────────┐  →  ┌────────────────┐  →
 Start  │ Select │     │ View       │     │ Select car     │
        │ Car    │     │ available  │     │ according      │
        └────────┘     │ Cars       │     │ to the         │
                       └────────────┘     │ customer need  │
                                          └────────────────┘

  ┌────────────┐  →  ◉
  │ Done       │     End.
  │ Selection of│
  │ Car        │
  └────────────┘
```