Department of Computer Engineering
Faculty of Technology, Dharmsinh Desai University
College Road, Nadiad-387001

B.Tech. CE Semester – VI

Subject: Object Oriented Software Engineering

Project Title: Online Cab Booking System

Developed By

Darshan Gohel – CE037, 17CEUBG002
Darji Dipesh – CE022, 17CEUBS137

Guided By

Prof. Jatayu H. Baxi
Department of Computer Engineering
Faculty of Technology,
Dharmsinh Desai University

DHARMSINH DESAI UNIVERSITY

CERTIFICATE

*This is to certify that the project entitled "**Online Cab Booking**" is a bonafide report of the work carried out by*

1) Mr. DARSHAN GOHEL, Roll No: CE037, Student ID No: 17CEUBG002

2) Mr. DARJI DIPESH, Roll No: CE022, Student ID No: 17CEUBS137

of Department of Computer Engineering, semester VI, under the guidance and supervision for the subject Object Oriented Software Engineering. They were involved in Project training during academic year 2020-2021.

Prof. Jatayu H. Baxi
Department of Computer Engineering,
Faculty of Technology,
Dharmsinh Desai University, Nadiad

Dr. C.K. Bhensdadia
Head, Department of Computer Engineering,
Faculty of Technology,
Dharmsinh Desai University, Nadiad

Date:

Contents

Abstract

This project mainly deals with creating an application regarding cab booking and checking availability of vehicles. Cab booking system provides reliable online cab(cars) booking facility to people in the various cities in India, free of cost. Cab acts like a bridge between the cab operators and customers/users who book a cab. This brings together the registered travel cab operators and the customers. Free service to the travelers/users who want to go for booking a cab.

Introduction

Here the customers can book a cab/taxi/car by viewing all the cab details and pricing details available, according to the selected city and area. It is reliable service provided to both customers and operators. This provides service with well conditioned new vehicles, with experienced drivers for a happy journey of customers.

- Technology Used
  - ASP.NET
  - MySQL
- Platform
  - Desktop
- Tools
  - Visual Studio 2015

Software Requirement Specification

Online Cab Booking

- ***Types of Users:***

  1.Admin

  2.End User

  3.Driver

R.1: Admin

R.1.1: View Daily Earning

Input: User selection
Output: Details of daily cabs fair.
Description: Admin can view fairs earning and he can see daily profit and loss.

R.1.2: Provide Offers

Input: Information about offers
Output: Success message
Description: Depending upon the daily use of the cabs by customers admin can provide different offers and concession.

R.1.3: Manage drivers

R.1.3.1: Remove driver

Input*: User selection*

Output*: Success message*

Description*: Admin can remove any driver from company*

R.1.3.2: View driver Information

Input: User selection

Output: Displayed driver information

Description: Admin can search/sort driver information with respect to different information like number of fairs per day, ratings, car type, etc.

R.1.3.3: Accept Request

Input: User selection

Output: Message sent to driver

Description: Admin can Accept the request of driver for make the cab driver of system and respective message sent to
the driver.

R.2: Driver

R.2.1: Login

Input: Required credentials

Output: Driver Interface.

Description: Driver can log into the system.

R.2.2: Signup
Input: Required Information
Output: Success Message
Description: Driver can sign up into the system by providing Required information like car type, car fuel type, timing of his job, address information, etc.

R.2.3: Accept Request
Input: User selection
Output: Success message send to the customer.
Description: Driver can accept request given by customers and successfully message sent to the particular customer.

R.2.4: Reject Request
Input: User selection
Output: Reject message send to the customer.
Description: Driver can reject request given by customers and successfully message sent to the particular customer.

R.2.5: View daily earnings
Input: User selection
Output: Daily earning will be displayed
Description: Driver can see his daily services which has been provided by him to customers and can see daily earning of his.

R.2: Customer

R.3.1: Login
Input: Required credentials
Output: Customers Interface.
Description: Customers can log into the system.

R.3.2: Signup
Input: Required Information.
Output: Success Message
Description: Customers can sign up into the system by providing Required information like health information, Contact information, address information, etc.

R.3.3: View cabs
Input: Required information
Output: Details of corresponding cabs
Description: Customer have to provide fair details like source, destination, time, car type, car fuel type, AC/non-AC, etc.

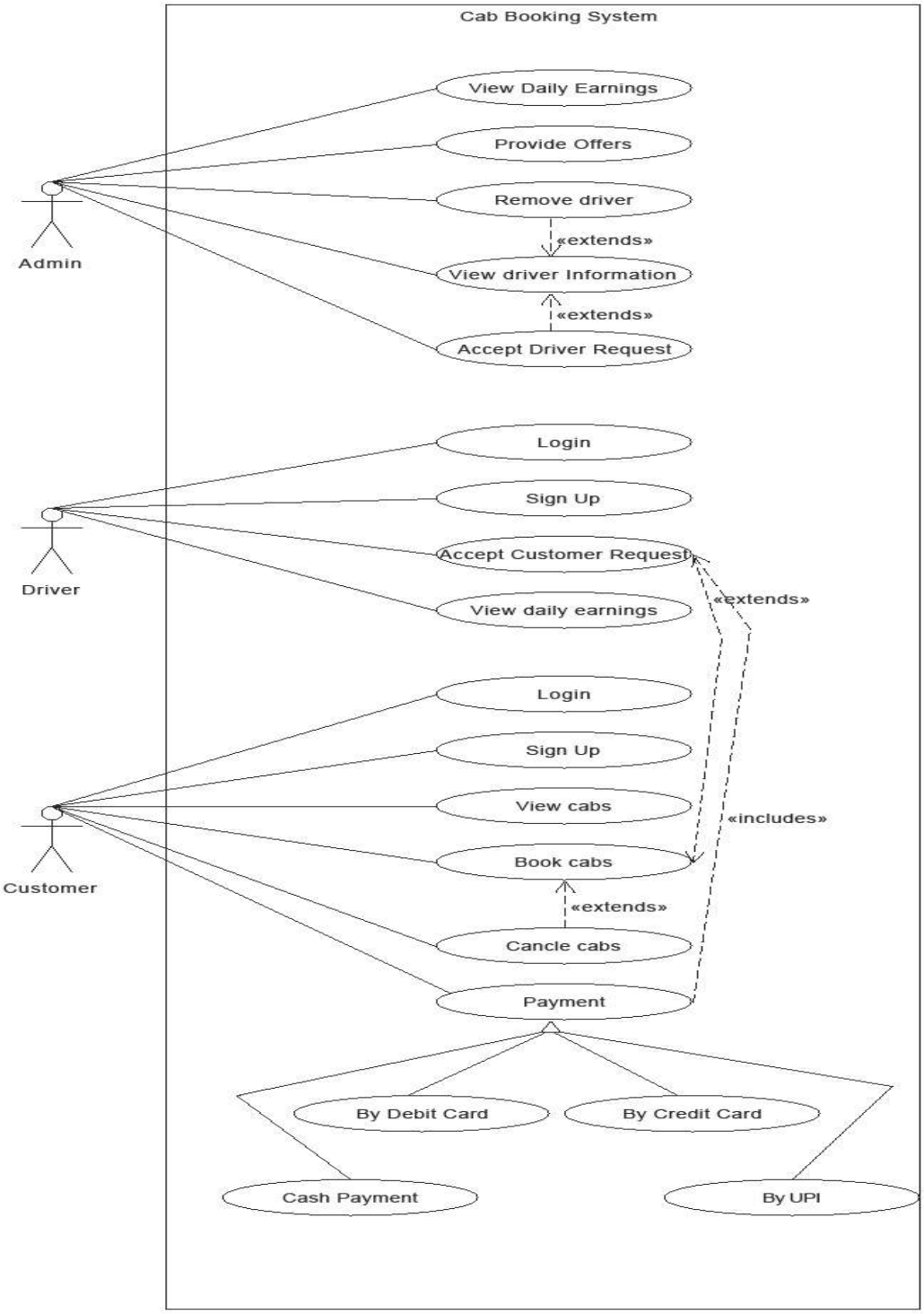
R.3.4: Book cabs
Input: User selection
Output: Request is sent to particular driver
Description: Customer can book any cabs for his fair by selecting preferable cab.

R.3.5: Cancel cabs
Input: User selection
Output: Request is sent to particular driver
Description: Customer can cancel any cabs for his fair by selecting already booked cab.

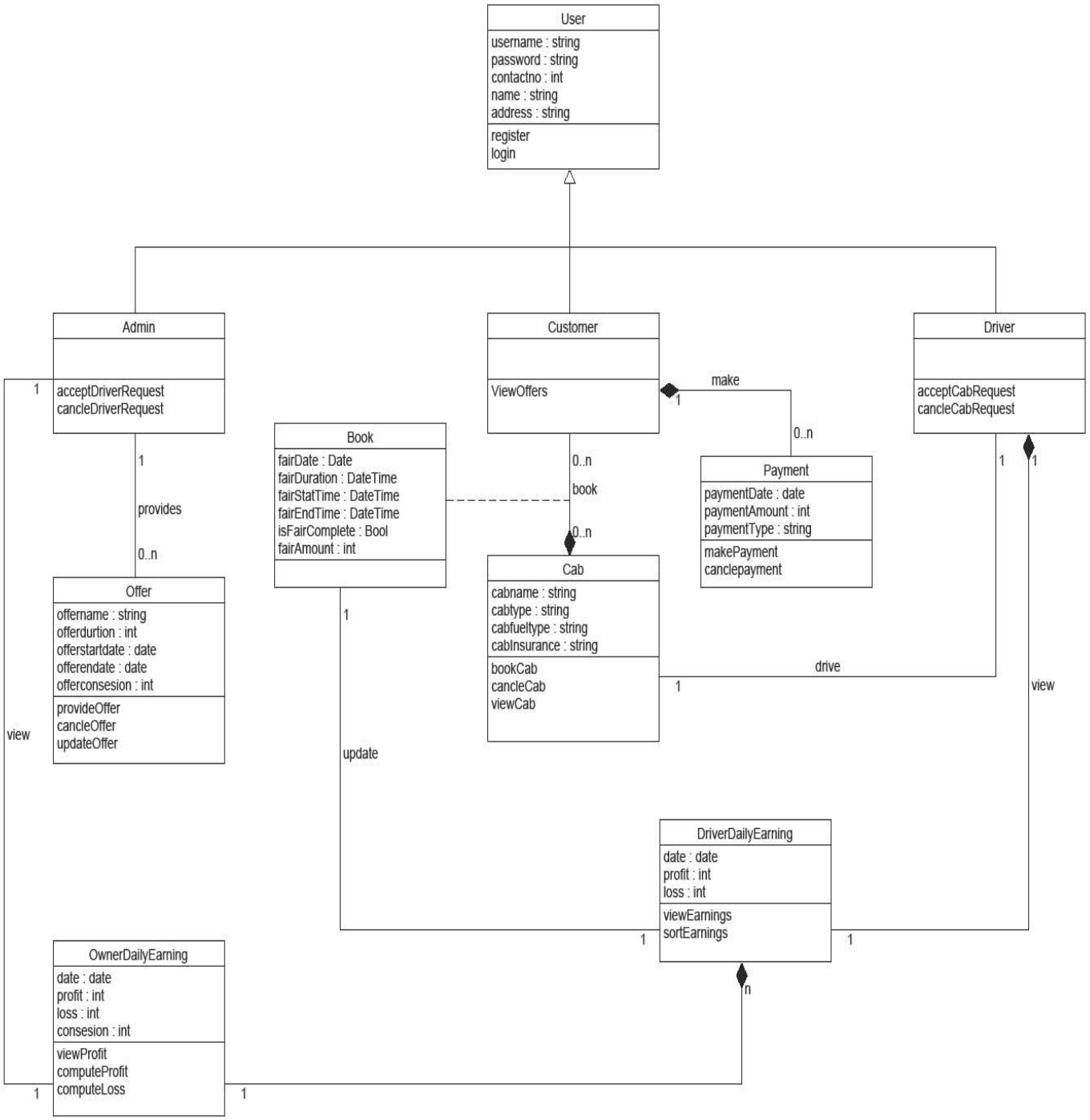
R.3.6: Payment
Input: Information regarding payment
Output: Success message to customer and driver
Description: Customer can pay amount of service of fair by selecting type of the payment and customer as well as driver receives the successful message for payment.

Design

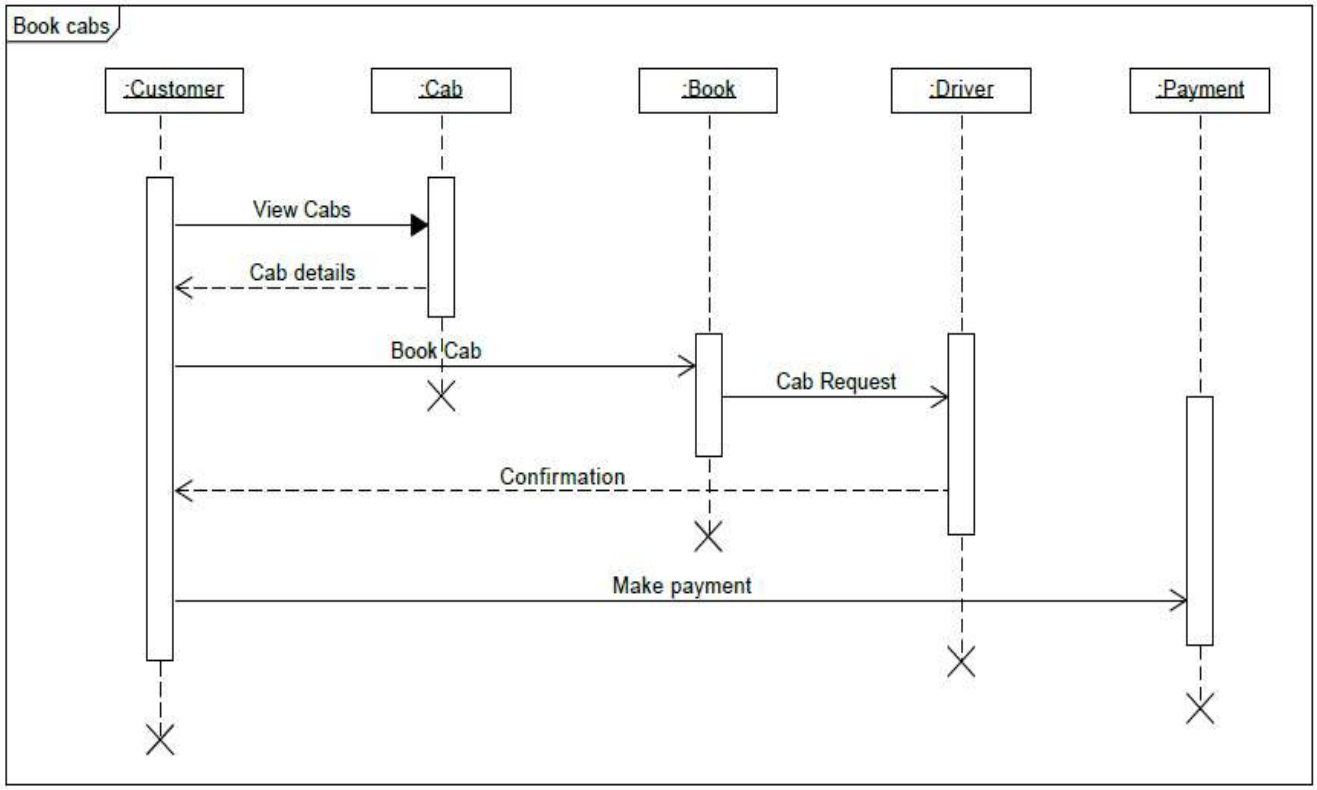
1) Use Case Diagram

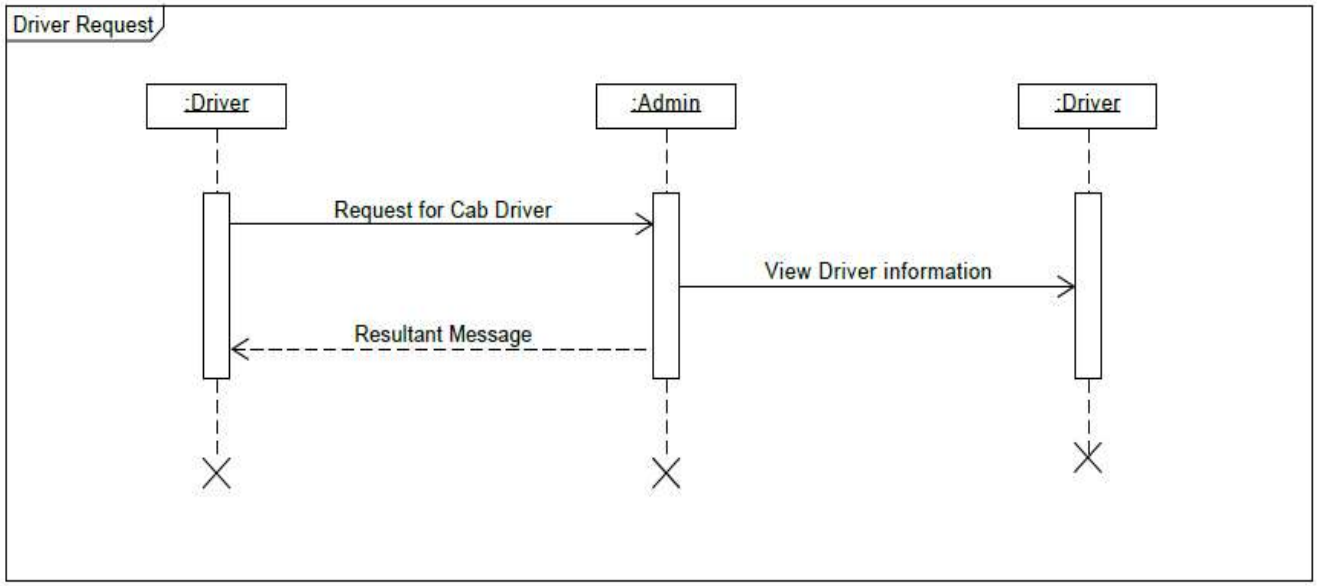


2.) Class Diagram

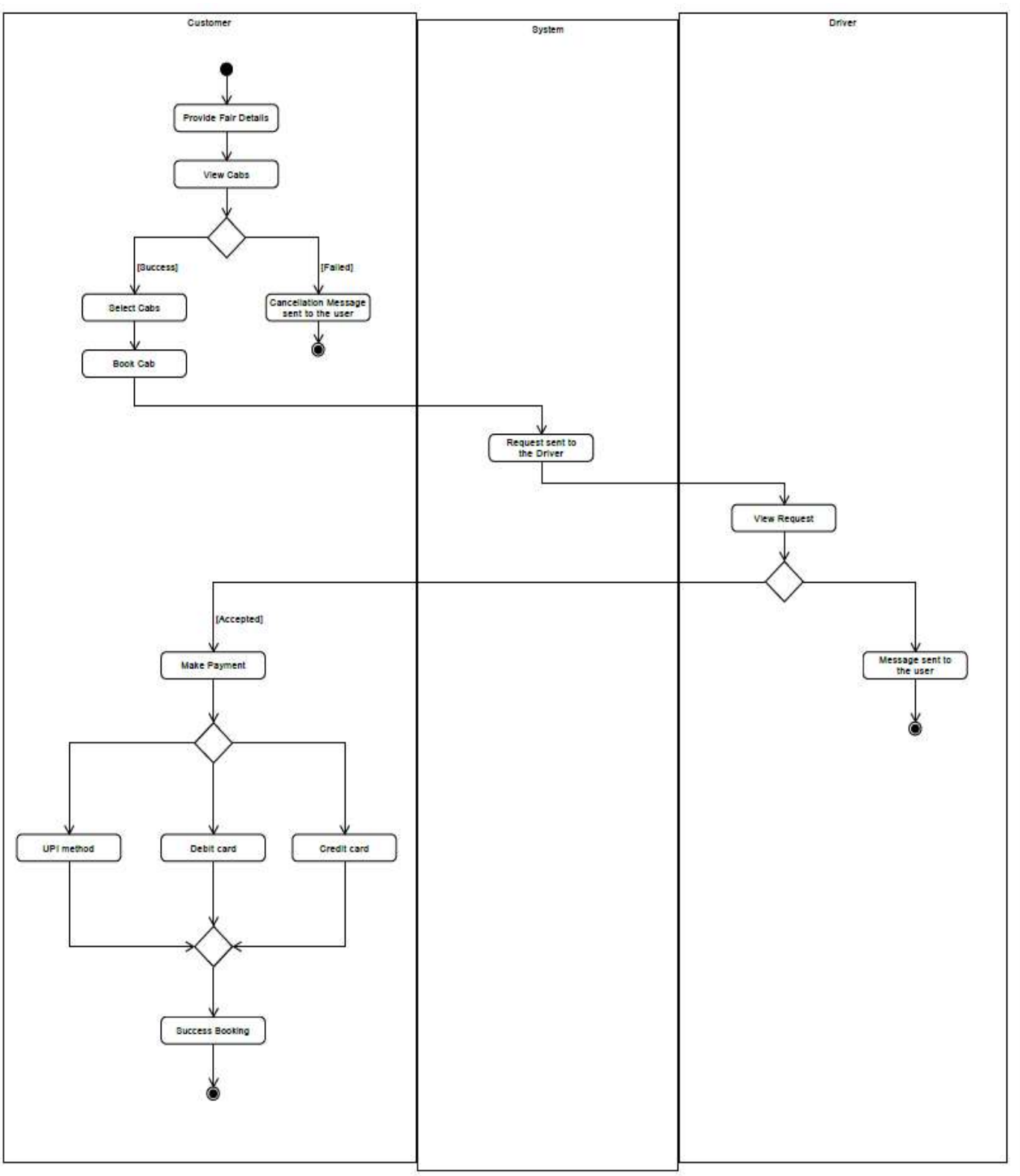


3.) Sequence Diagram

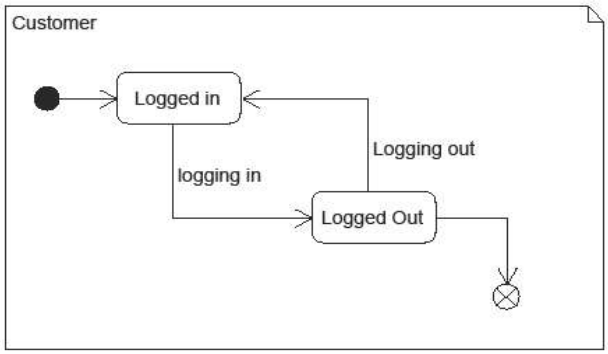


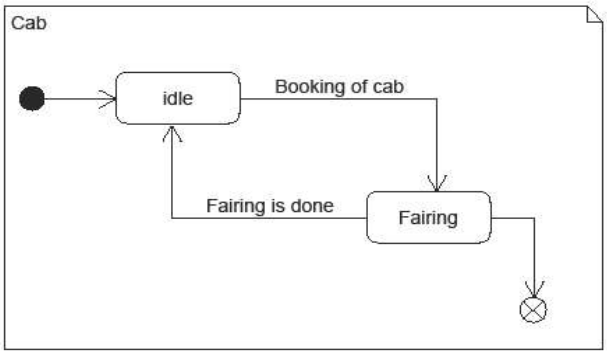


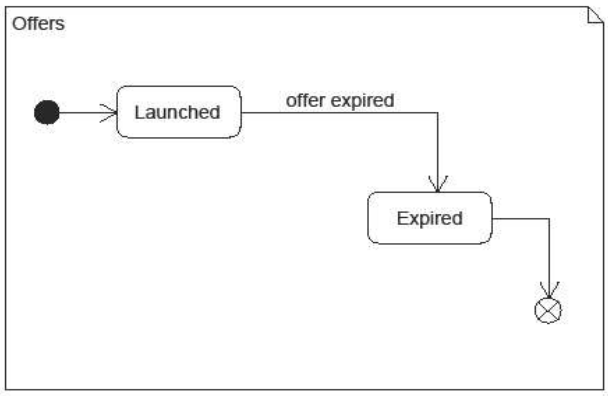
4.) Activity Diagram

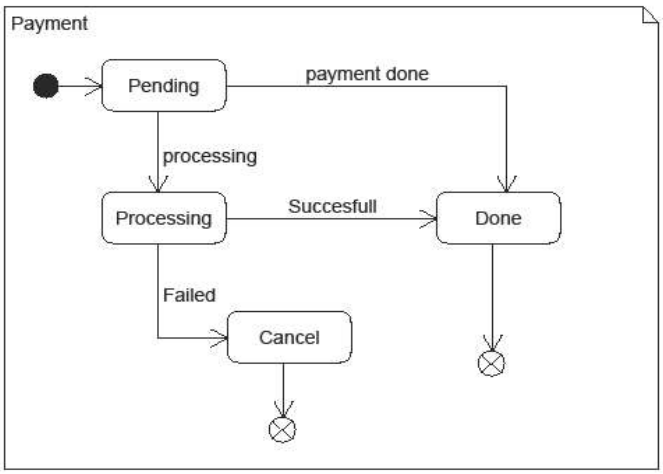


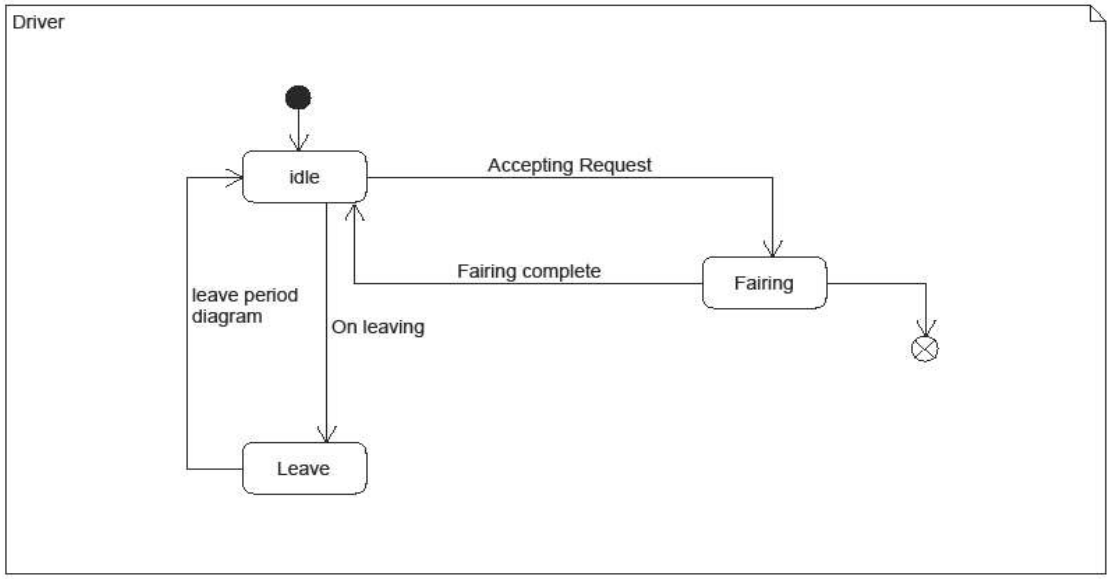
5.) State Diagram



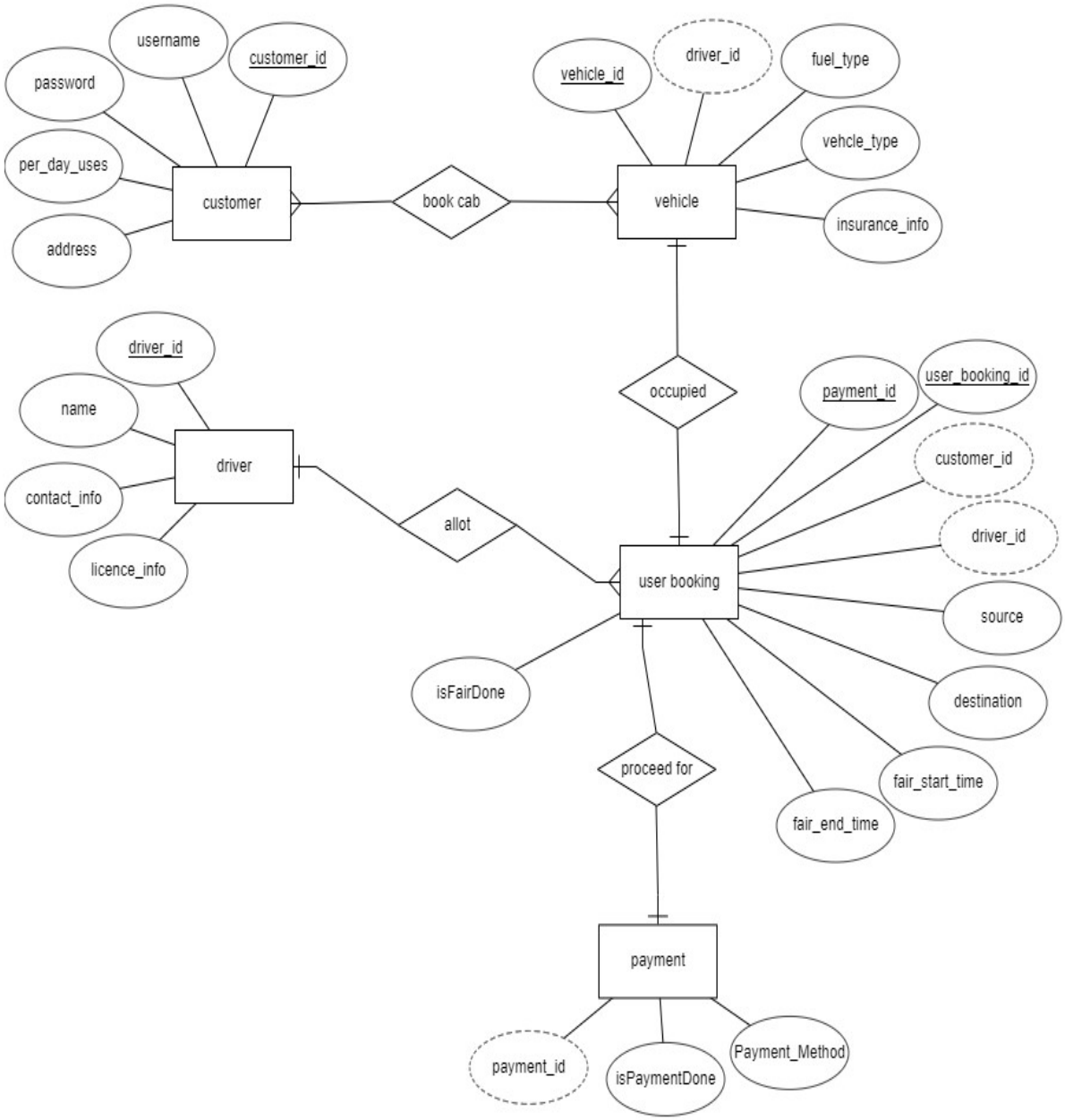








6) E-R Diagram


username
customer_id
password
per_day_uses
address
customer
book cab
vehicle_id
driver_id
fuel_type
vehcle_type
insurance_info
vehicle
driver_id
name
contact_info
licence_info
driver
allot
occupied
payment_id
user_booking_id
customer_id
driver_id
source
destination
fair_start_time
fair_end_time
user booking
isFairDone
proceed for
payment
payment_id
isPaymentDone
Payment_Method

8) Data Dictionary

Ahiya badhu table draw kari deje databases na

Implementation Detail

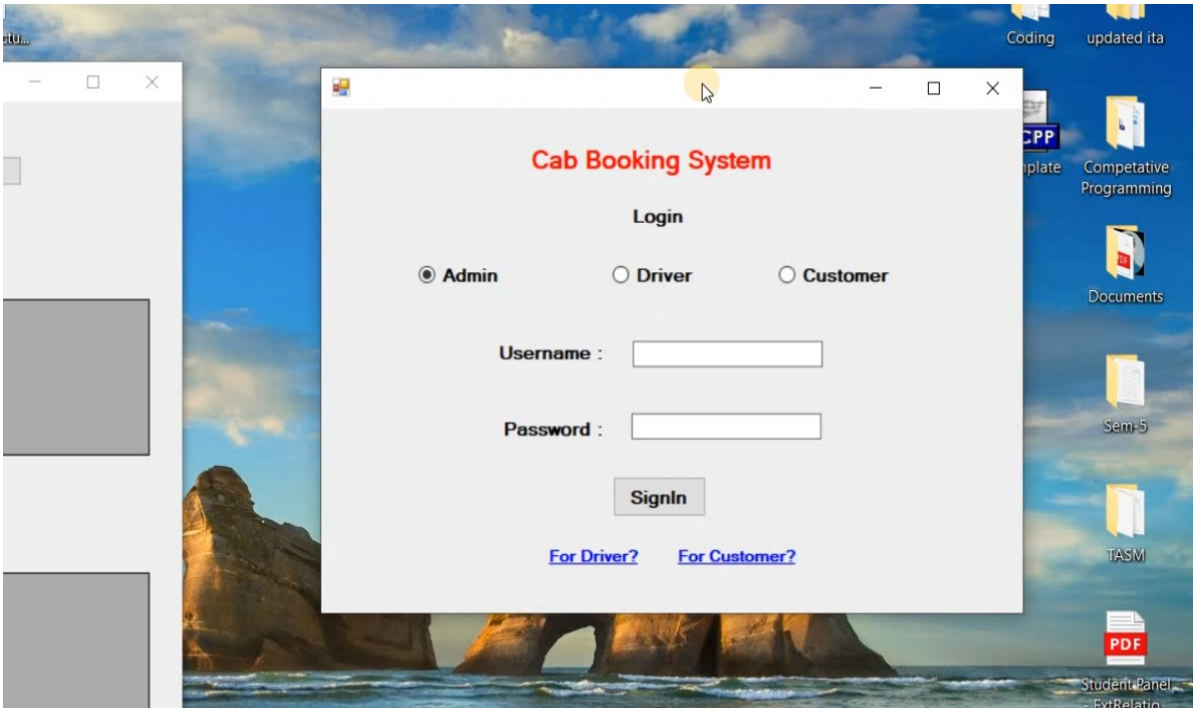
1. Driver side

- Set the current location – Driver can add its current location
- Show accepted cab request – Driver can accept the cab request and can see the all accepted cab requests.
- Show all cab requests – Driver can see all request which are generated by the customer either is accepted or not.
- View daily earnings – Driver can see his daily earnings
- Set the fair as completed – Driver can set the fair as completed for accepted cab requests.
- Rejecting cab request – Driver can reject the cab Requests

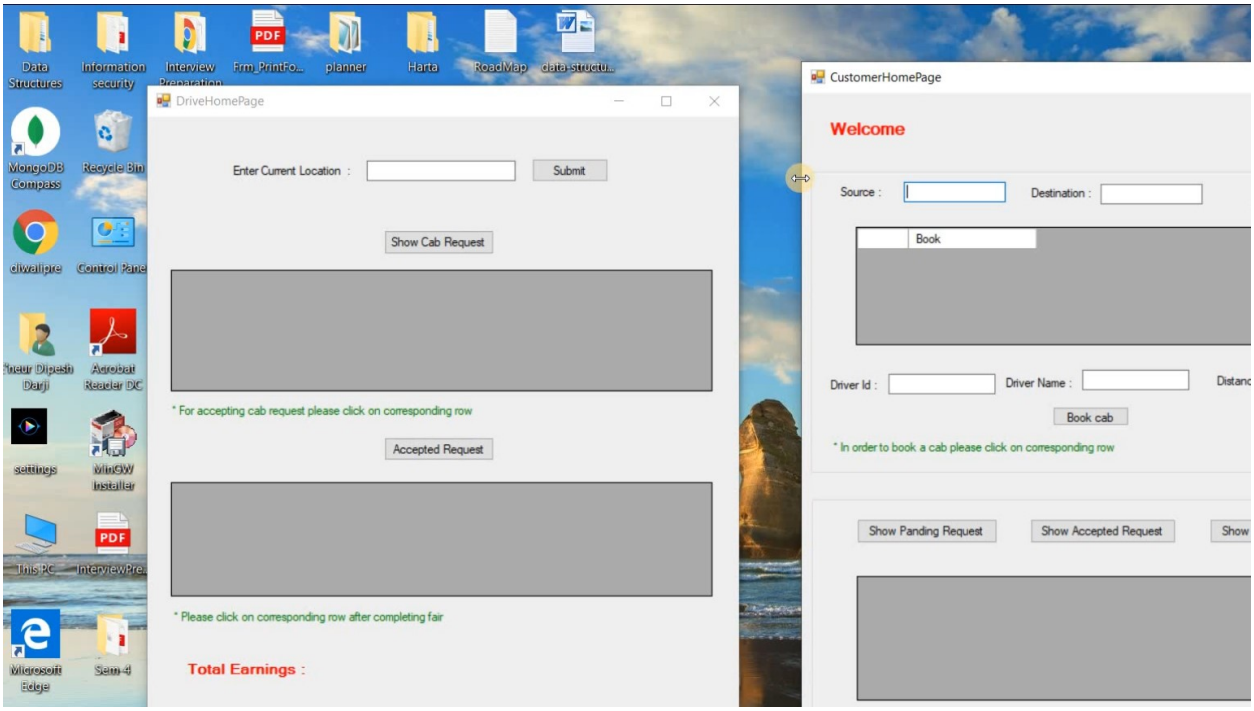
2. Customer side

- Search cabs – customer can search different cabs for his trip by providing the information like source and destination.
- Book cabs – customer can book cab by providing general information like driver ID, name and the distance between two cities.
- Show all pending requests – customer can see his/her all requests which are not accepted or rejected yet.
- Show all accepted requests – customer can see his/her all requests which are accepted by the driver.
- Show all rejected requests – customer can see his/her all requests which are rejected by the driver.

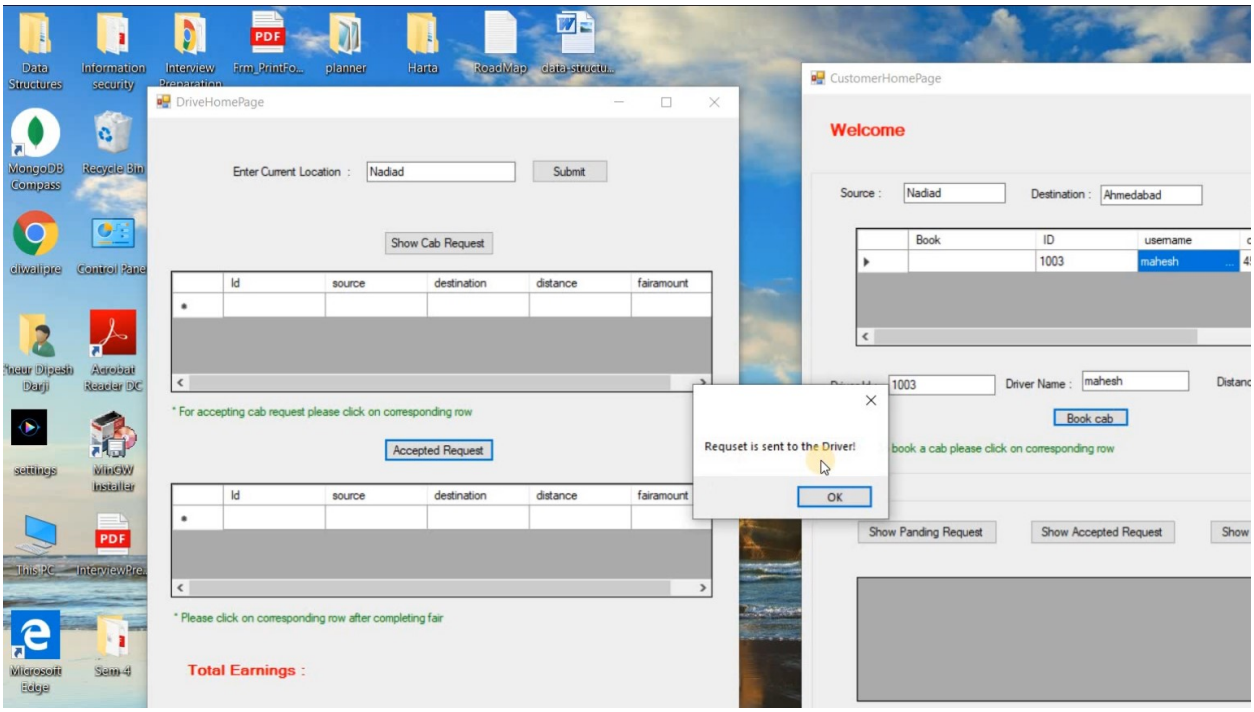
Screen-shots



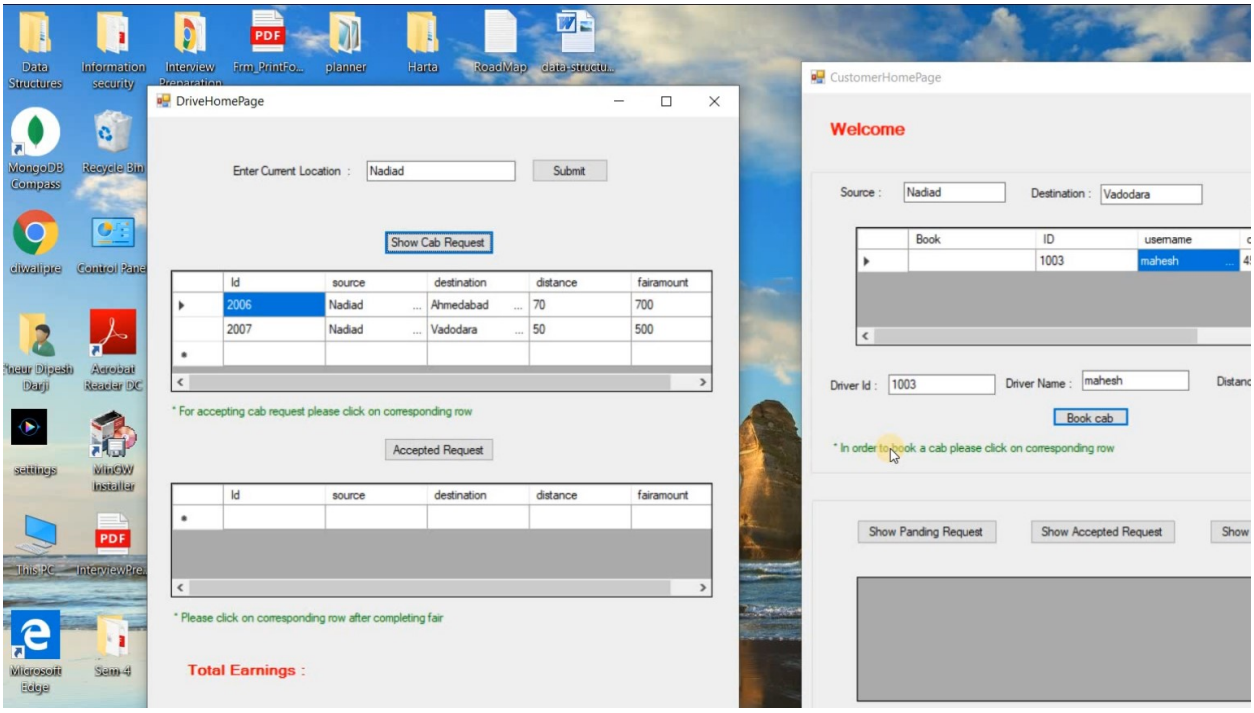
1. Login page of the system



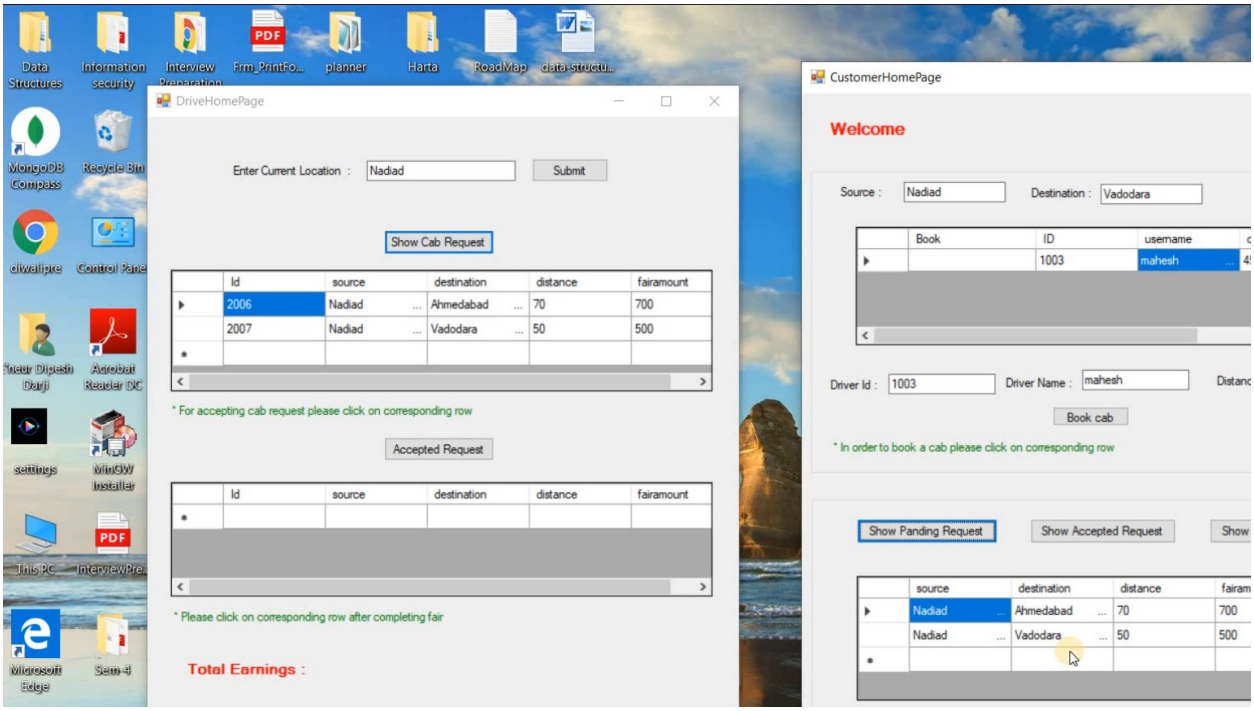
2. Home page for Driver and customer respectively.



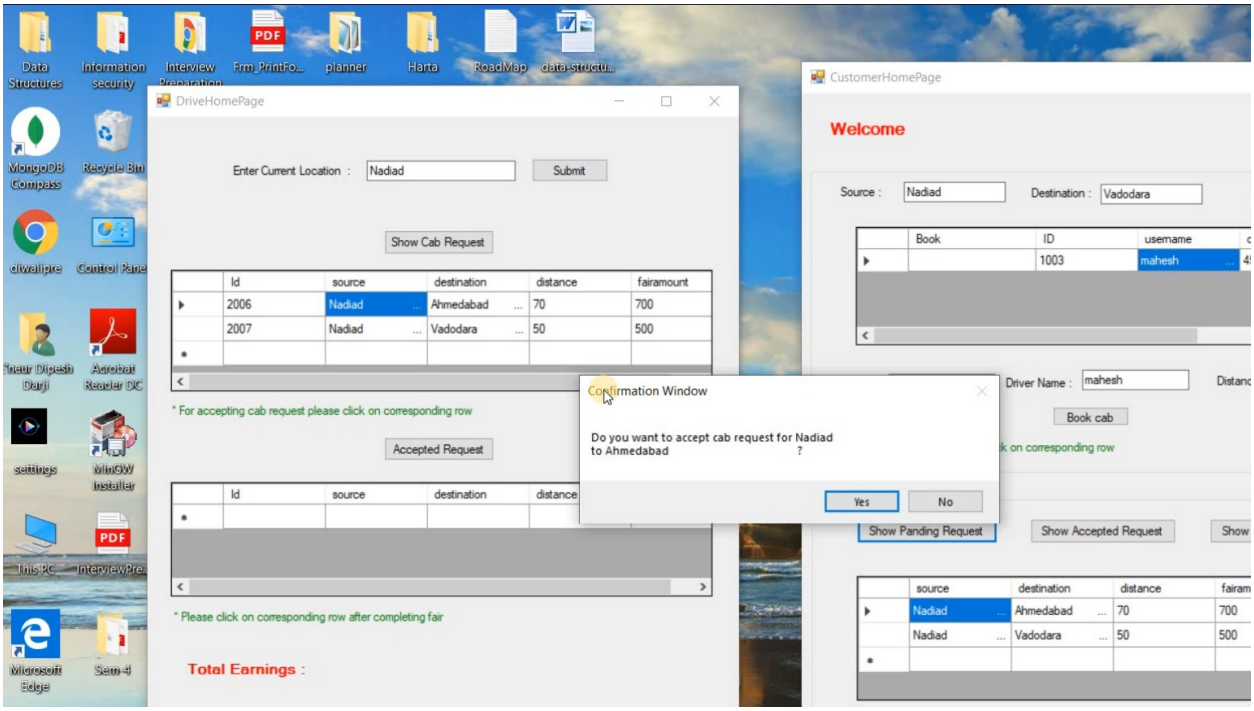
3. View when request is sent to the driver



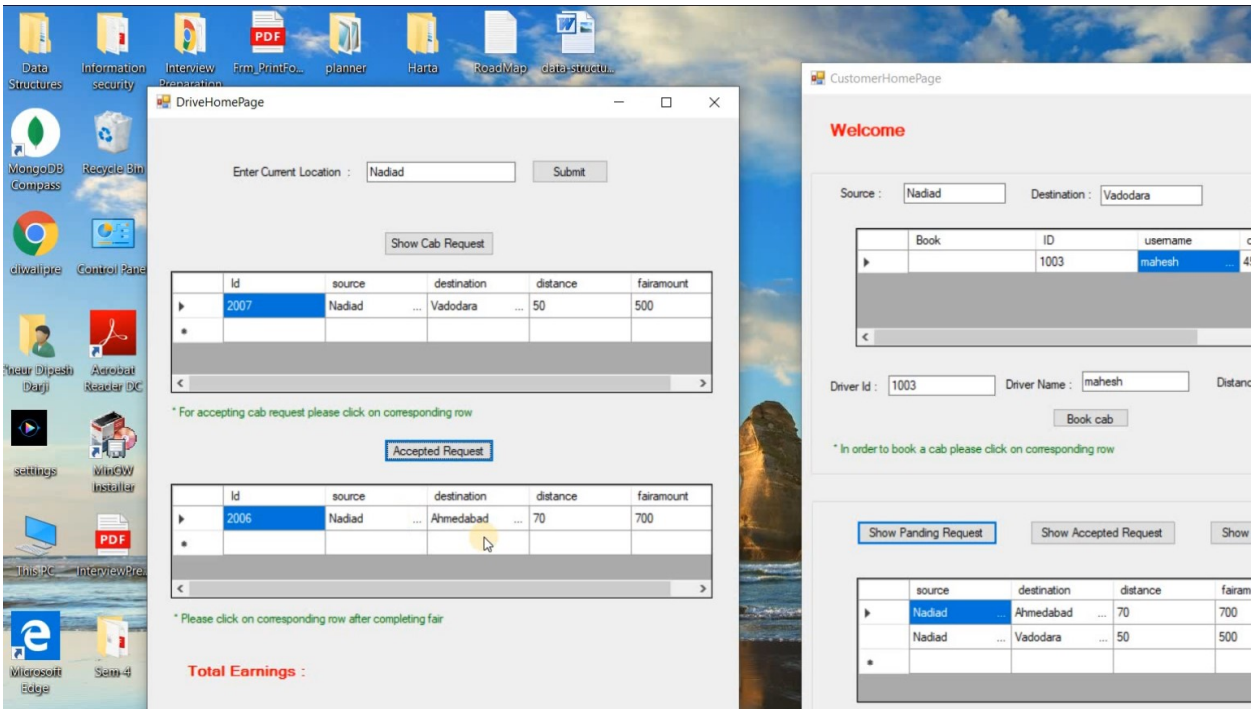
4. View of Show cabs for Driver



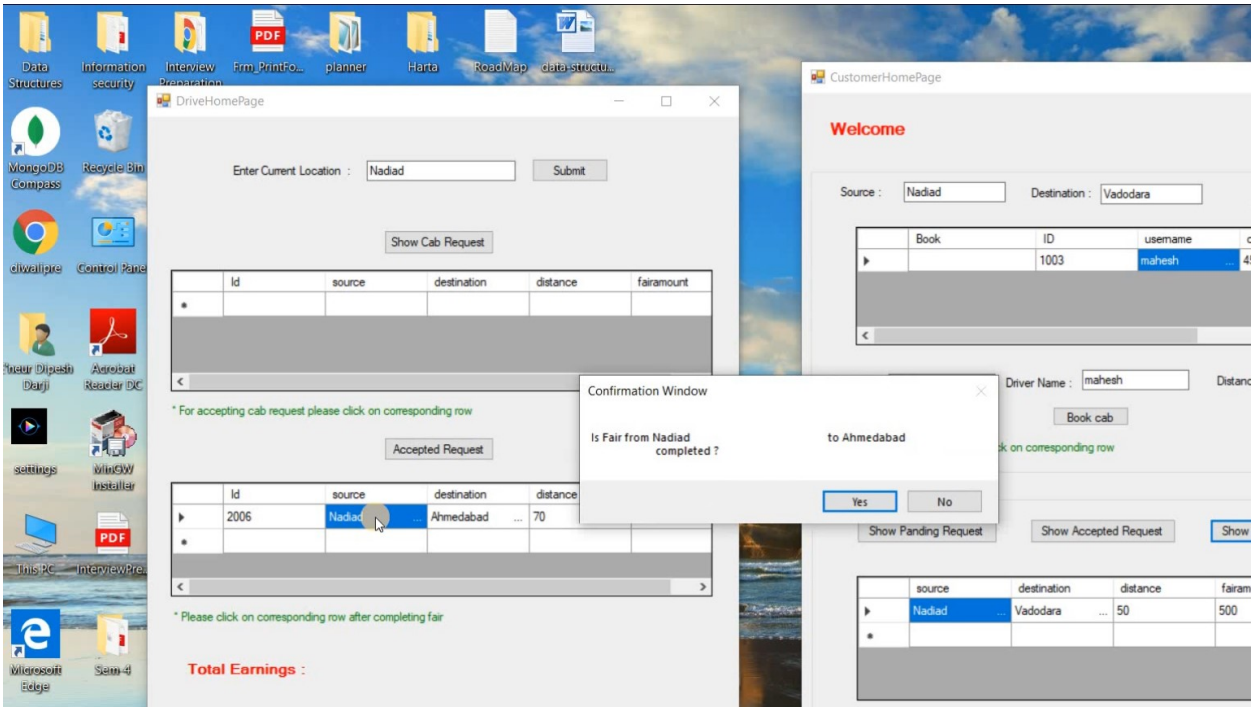
5. View of show pending requests



6. View of when driver accept or reject the cab requests



7. View of accepted all cab request for the driver.



8.View when driver completes his fair.

Conclusion

Cab booking System is very effective, efficient, reliable and economic from all aspects. It provides all the current needs of a client when it comes to cab booking services. The proposed project is very flexible, so new features and modules can be added in future as per user requirements. We have implemented all the functionalities in driver side. Driver can accept, rejects the cab requests, setting the current locations, completing the fair, etc. Customer has all rights to book any cab/driver which is added by driver.

Limitation and Future Extension

❖ Application has lacks in terms of security aspects.

❖ **Future Enhancements**

- If an appropriate module for secure payment identified or externally developed, then it shall be incorporated in the next version.
- Customers live location shall be added.
- Customer can track the current location of cab/driver which has been booked by customer.
- Admin can provides the offers.

BIBLIOGRAPHY

For the successful implementation of this project we referred to many websites and books. The schema was designed by taking ideas from website like https://www.creately.com. We created ER Diagram on ERDplus website and developed Desktop application on visual studio 2015.

Reference Websites:

- **http://vbtutor.net**
- **https://docs.microsoft.com/**
- **https://www.tutorialspoint.com/**