



Open Ended (OE) Assessment Report

On

OLA -Simulation of App

**Object Oriented Programming (20ECSC204)
Object Oriented Programming Lab (20ECSP203)**

Submitted by

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Academic year 2021-22

1. Introduction

1.1 - Overview

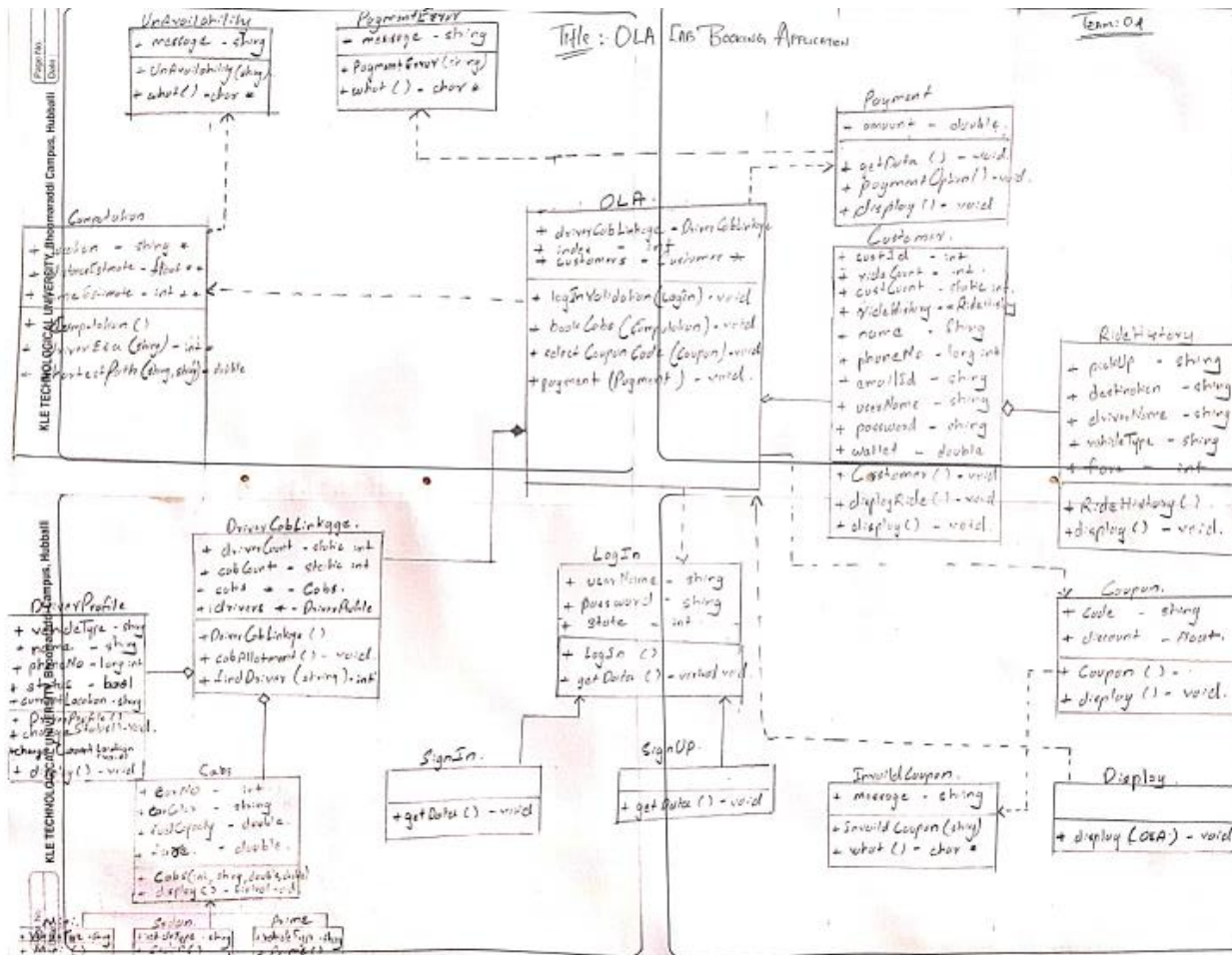
The problem statement here is to create a program using concepts of Object Oriented Programming to clone the working of **OLA**.

1.2 – Features of the application

- Users have to have an account to perform some transaction which can be done by signing up.
- Users can login only if an account exists.
- Users can register themselves.
- Users can view their past history.
- Users are enabled to enter their current location and also the destination place.
- Users are enabled with the cab service.
- Users are available with various payment options.
- User are also provided with various coupon options.
- The simulation involves Floyd's algorithm to find driver near to the user.
- The program uses Dijkstra's algorithm to find shortest path between source and destination of user.
- Program also has some exception classes which enables handling errors generated.
- Simulation provides various options for Cabs.

2. Design

2.1 Class Diagram :



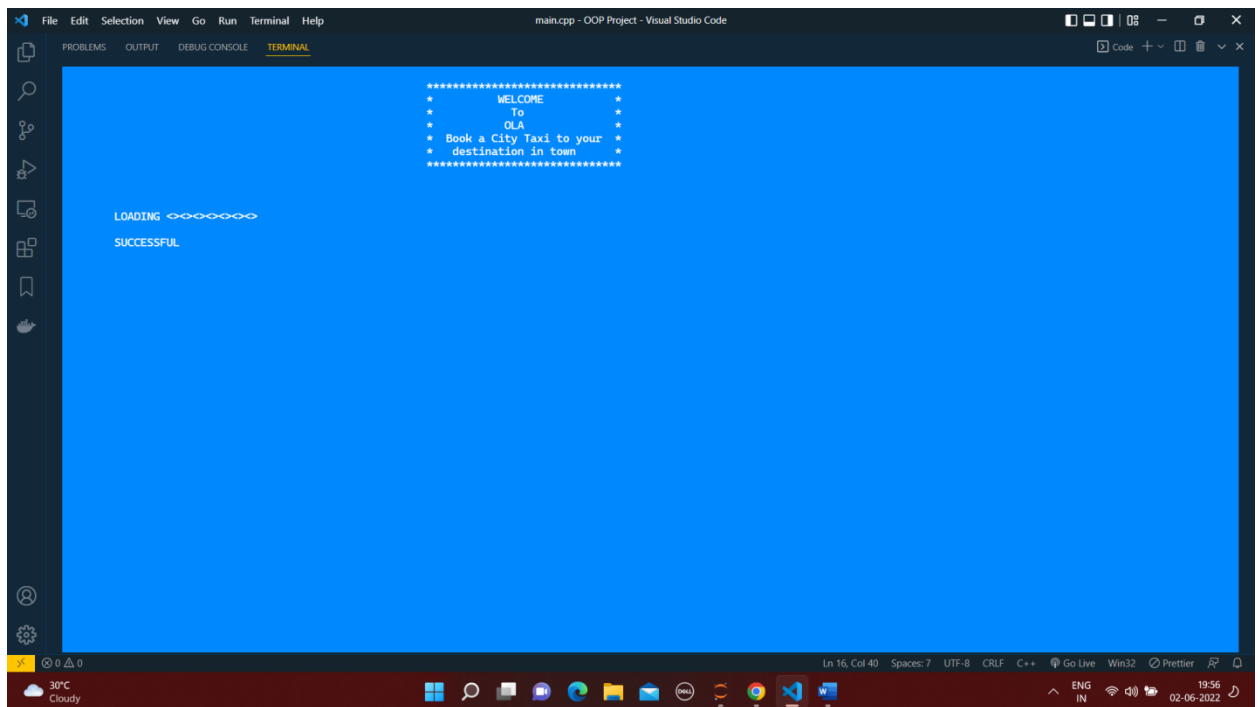
3. Implementation

3.1 Test Plans :

Test case number	Test case description	Input	Expected output	Test status
1	Signing In with Mobile number	Mobile number	View of Menu bar	PASS
2	Signing Up	Customer Details	View of Menu bar (Signed Up)	PASS
3	Booking a ride	Pickup and destination	Track of route and amount to be paid	PASS
4	Entering a coupon code	Coupon code	Amount to be paid after deducting discount	PASS
5	View Ride history	Choice to view	Ride histories	PASS

3.2 Results:

Welcome Screen



The screenshot shows a Visual Studio Code window with a terminal open. The terminal has a blue background and displays the following text:

```
*****  
*      WELCOME      *  
*      To           *  
*      OLA          *  
* Book a City Taxi to your *  
* destination in town *  
*****
```

Below this, the text "LOADING" is followed by a progress bar consisting of ten diamond-shaped characters, with the fourth one filled. Below the progress bar, the word "SUCCESSFUL" is displayed.

The Visual Studio Code interface includes a menu bar at the top with options: File, Edit, Selection, View, Go, Run, Terminal, and Help. The terminal tab is active, showing "main.cpp - OOP Project - Visual Studio Code". The status bar at the bottom indicates the current line and column (Ln 16, Col 40), encoding (UTF-8), and other settings.

Main Menu

```
*****  
*   OLA CABS   *  
*****  
  
*****  
*<1> USER LOGIN *  
*****  
  
*****  
*<2> USER SIGNUP *  
*****  
  
*****  
*<3> EXIT *  
*****  
  
Enter your choice:
```

Login Option:

```
*****  
*   USER LOGIN   *  
*****  
  
Login using  
1.Phone Number  
2.Email and password  
3.To go to main menu  
Enter your choice:
```

Successful Login

```
main.cpp - OOP Project - Visual Studio Code

*****
*      OLA CABS      *
*****

*****
*WELCOME,vegeta*
*****

1.Profile Details
2.Ride History
3.Book a ride
4.Log Out
Enter your choice:1
```

Sign Up

```
SIGNUP SUCCESSFUL.
Enter your details
UserName:rahul
Password:*****
Customer Name:rahulk
Customer Email:rahulk@gmail.com
Customer Wallet:2500
```

View of Customer Details

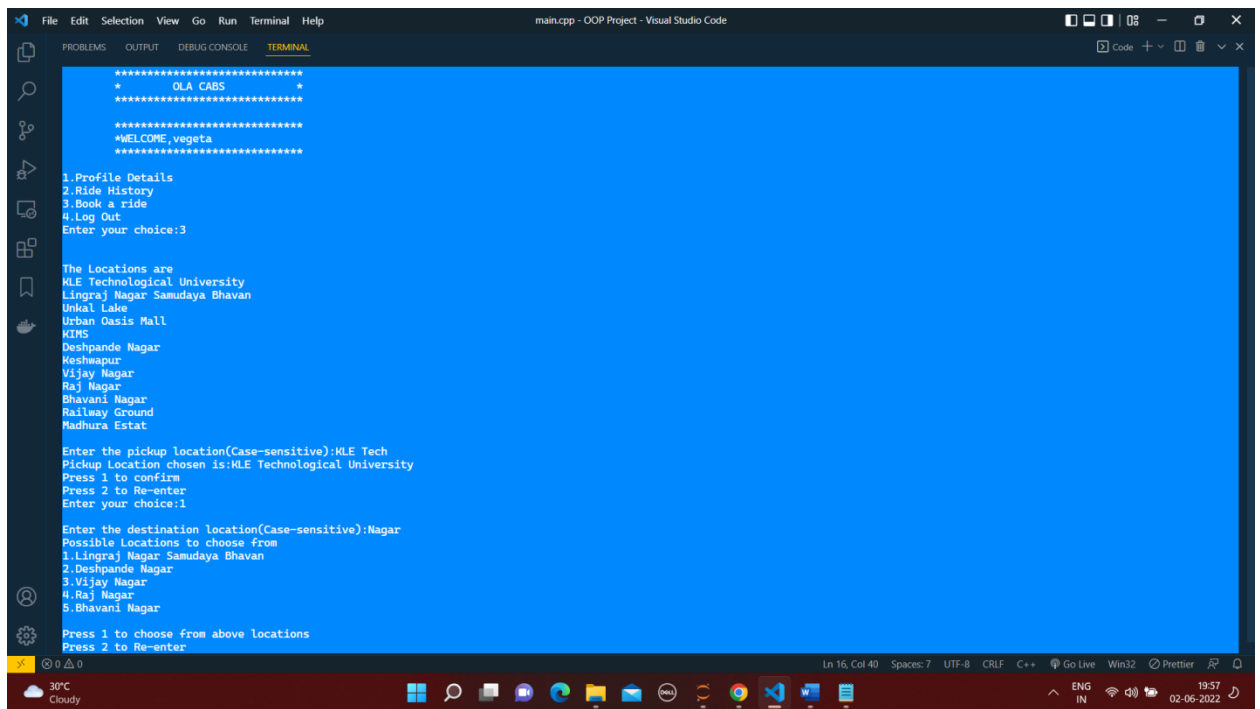
```
*****
*   OLA CABS   *
*****

*****
*WELCOME, vegeta
*****

1.Profile Details
2.Ride History
3.Book a ride
4.Log Out
Enter your choice:1

Customer Details are :
UserName:veget12
Password:*****
Customer Name =vegeta
Customer PhoneNo = 9584736126
Customer Email = veget12@gmail.com
Wallet:2612
Enter ANY KEY to exit
```

Booking a ride :



```
File Edit Selection View Go Run Terminal Help
main.cpp - OOP Project - Visual Studio Code

*****
*      OLA CABS      *
*****

*****
*WELCOME,vegeta*
*****

1.Profile Details
2.Ride History
3.Book a ride
4.Log Out
Enter your choice:3

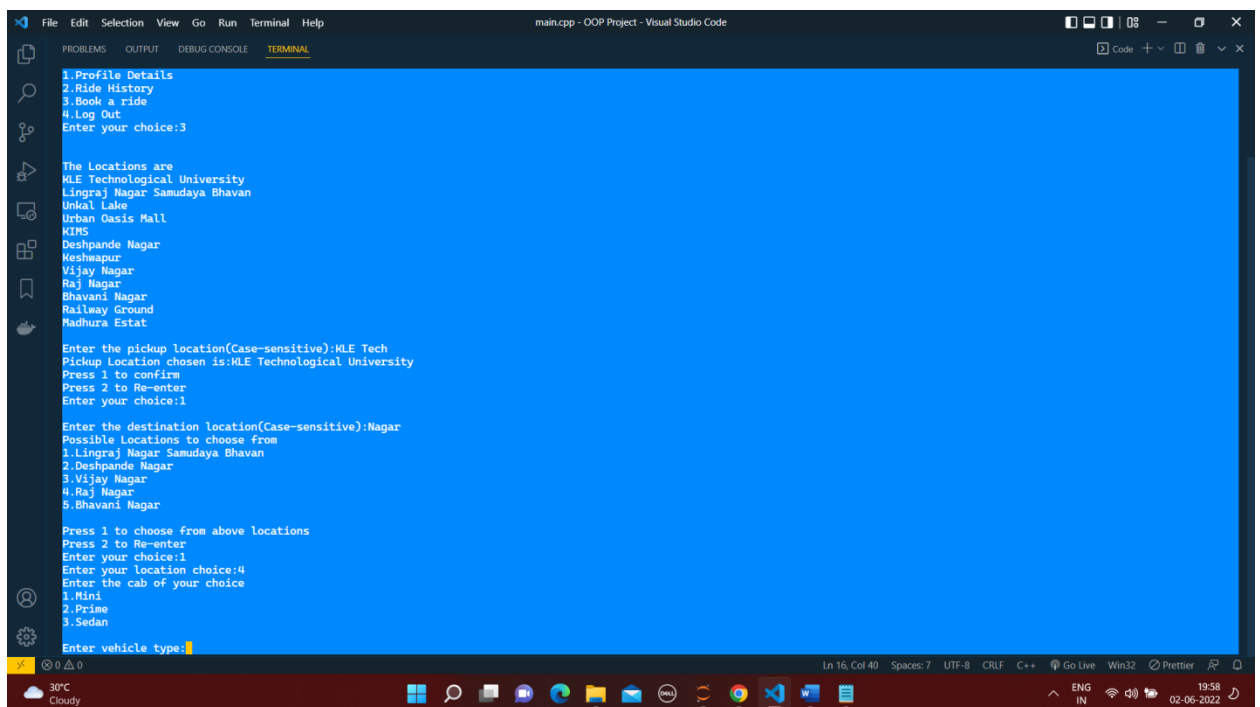
The Locations are
MLE Technological University
Lingraj Nagar Samudaya Bhavan
Unkal Lake
Urban Oasis Mall
KIMS
Deshpande Nagar
Keshwapur
Vijay Nagar
Raj Nagar
Bhavani Nagar
Railway Ground
Madhura Estat

Enter the pickup location(Case-sensitive):MLE Tech
Pickup Location chosen is:MLE Technological University
Press 1 to confirm
Press 2 to Re-enter
Enter your choice:1

Enter the destination location(Case-sensitive):Nagar
Possible Locations to choose from
1.Lingraj Nagar Samudaya Bhavan
2.Deshpande Nagar
3.Vijay Nagar
4.Raj Nagar
5.Bhavani Nagar

Press 1 to choose from above locations
Press 2 to Re-enter
```

Options to choice Cabs :



```
File Edit Selection View Go Run Terminal Help
main.cpp - OOP Project - Visual Studio Code

1.Profile Details
2.Ride History
3.Book a ride
4.Log Out
Enter your choice:3

The Locations are
MLE Technological University
Lingraj Nagar Samudaya Bhavan
Unkal Lake
Urban Oasis Mall
KIMS
Deshpande Nagar
Keshwapur
Vijay Nagar
Raj Nagar
Bhavani Nagar
Railway Ground
Madhura Estat

Enter the pickup location(Case-sensitive):MLE Tech
Pickup Location chosen is:MLE Technological University
Press 1 to confirm
Press 2 to Re-enter
Enter your choice:1

Enter the destination location(Case-sensitive):Nagar
Possible Locations to choose from
1.Lingraj Nagar Samudaya Bhavan
2.Deshpande Nagar
3.Vijay Nagar
4.Raj Nagar
5.Bhavani Nagar

Press 1 to choose from above locations
Press 2 to Re-enter
Enter your choice:1
Enter your location choice:4
Enter the cab of your choice
1.Mini
2.Prime
3.Sedan

Enter vehicle type:
```

Displaying driver details who is near to pickup location :


```
File Edit Selection View Go Run Terminal Help
main.cpp - OOP Project - Visual Studio Code

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Vijay Nagar
Raj Nagar
Bhavani Nagar
Railway Ground
Madhura Estat

Enter the pickup location(Case-sensitive):MLE Tech
Pickup Location chosen is:MLE Technological University
Press 1 to confirm
Press 2 to Re-enter
Enter your choice:1

Enter the destination location(Case-sensitive):Nagar
Possible Locations to choose from
1.Lingraj Nagar Samudaya Bhavan
2.Deshpande Nagar
3.Vijay Nagar
4.Raj Nagar
5.Bhavani Nagar

Press 1 to choose from above locations
Press 2 to Re-enter
Enter your choice:1
Enter your location choice:4
Enter the cab of your choice
1.Mini
2.Prime
3.Sedan

Enter vehicle type:Mini
david will arrive in 4 minutes
Driver Details
Driver Name:david
Vehicle Type:Mini
Phone No:9172638172
Status:Available
Current Location:Lingraj Nagar Samudaya Bhavan
Cab Details
Car Number:100
Car Color:blue
Fuel Capacity:125
Fare:5
Vehicle Type:Honda
Press 0 TO CONTINUE

Ln 16, Col 40 Spaces: 7 UTF-8 CRLF C++ Go Live Win32 Prettier
30°C Cloudy 19:58 02-06-2022
```

Viewing past history :

```
File Edit Selection View Go Run Terminal Help
main.cpp - OOP Project - Visual Studio Code

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

***** OLA CABS *****
*****
*****WELCOME,rahulk*****
*****

1.Profile Details
2.Ride History
3.Book a ride
4.Log Out
Enter your choice:2

Source = MLE Technological University
Destination = Weshwapur
Driver = ramesh
Fare paid = Rs 119
Press any key to go back

Ln 16, Col 40 Spaces: 7 UTF-8 CRLF C++ Go Live Win32 Prettier
30°C Cloudy 20:11 02-06-2022
```

Displaying available coupons :

```
File Edit Selection View Go Run Terminal Help
main.cpp - OOP Project - Visual Studio Code

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Enter the cab of your choice
1. Mini
2. Prime
3. Sedan

Enter vehicle type: Prime
Robert will arrive in 10 minutes
Driver Details
Driver Name: Robert
Vehicle Type: Prime
Phone No: 9276483901
status: Available
Current Location: Deshpande Nagar
Cab Details
Car Number: 18W
Car Color: white
Fuel Capacity: 125
Fare: 18
Vehicle Type: Mahindra
Press 0 TO CONTINUE
0
Journey starts

Madhura Estat---->Raj Nagar---->You have Reached your Destination!!

Total time taken: 9 minutes

The Total Cost is 90
Do you have coupon code?
1. Yes
2. No
Enter your choice: 1
Coupon Code = WX1234
Coupon discount = 100
Coupon Code = RX1244
Coupon discount = 50
Coupon Code = ZM1252
Coupon discount = 200
Coupon Code = KAO182
Coupon discount = 30
Coupon Code = LAP123
Coupon discount = 100
Enter coupon code: KAO182
Enter 60 amount: 60

Ln 16, Col 40 Spaces: 7 UTF-8 CRLF C++ Go Live Win32 Prettier
24°C Cloudy
```

After logout for App :

```
File Edit Selection View Go Run Terminal Help
main.cpp - OOP Project - Visual Studio Code

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

*****
* OLA CABS *
*****

**1> USER LOGIN *
*****

**<2> USER SIGNUP *
*****

**<3> EXIT *
*****

Thank you for using ola cabs. Have a nice day

PS D:\OOP Project>

Ln 16, Col 40 Spaces: 7 UTF-8 CRLF C++ Go Live Win32 Prettier
30°C Cloudy
```