UBER SYSTEM PROJECT

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ACKNOWLEDGEMENT

To begin my project report, I'm Student of Computer engineering department, would like to send my all regards and thanks to our professor and head of our department **Dr. Ali Gunes** for all his efforts with us to make us reach to this level where we are standing at, when we started with few information, we ended our first term with a huge achievement.

Secondly, I would like to thank my friends who didn't refuse or hesitate to help me and give me their advice and opinions during the whole process of doing this project.

Finally, after passing this tough second term project, with all its easy and hard points, I only hope for the succession of the last step which is to please our **Dr. Ali Gunes** with my project.

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ABSTRACT

The project's name is "UBER System", the idea of the project is divided into five parts which all for customers one part is for fare information the second part is for getting fare estimate third part is for rating the rides fourth is for reserving a car and the last one is for displaying the summary .

Starting with getting fare information, fare estimate and reserving a car , I will be offering 4 choices for the customer to input, UBERX , UBERXL ,UBERBLACK and return to main menu . it aims to provide full information for the customer so they can reserve a car with full information about their journey.

Moving to rating part where customer can rate his journey and the summary part which provide summary for all parts etc…;

In the end, this project aims are to provide full services information and reservation to customer.

1.0 INTRODUCTION

✞ In this part I'm going to talk about three things. First, 1.1 project aims and objectives. Second, 1.2 background of project. Third, 1.3 operation environment.

1.1 PROJECT AIMS AND OBJECTIVES

✞ THE PROJECT AIMS AND OBJECTIVES ARE:

✞ - To show out the skills of creating applications by coding

✞ - To display the screen of many different project modules, by certain Java characteristics.

✞ - Using java collections to reach out to the wanted output ✞ - Lastly to be able to make many modules in one project.

1.2 BACKGROUND OF PROJECT

The project's name is Uber system Project, the idea of the project is divided into five which all for the customer to access.

This project's aim was to provide a stylish, and nice Uber system which will give advantages to the customers.

In the end, this project aims are to provide full services Uber information and reservation to the customer.

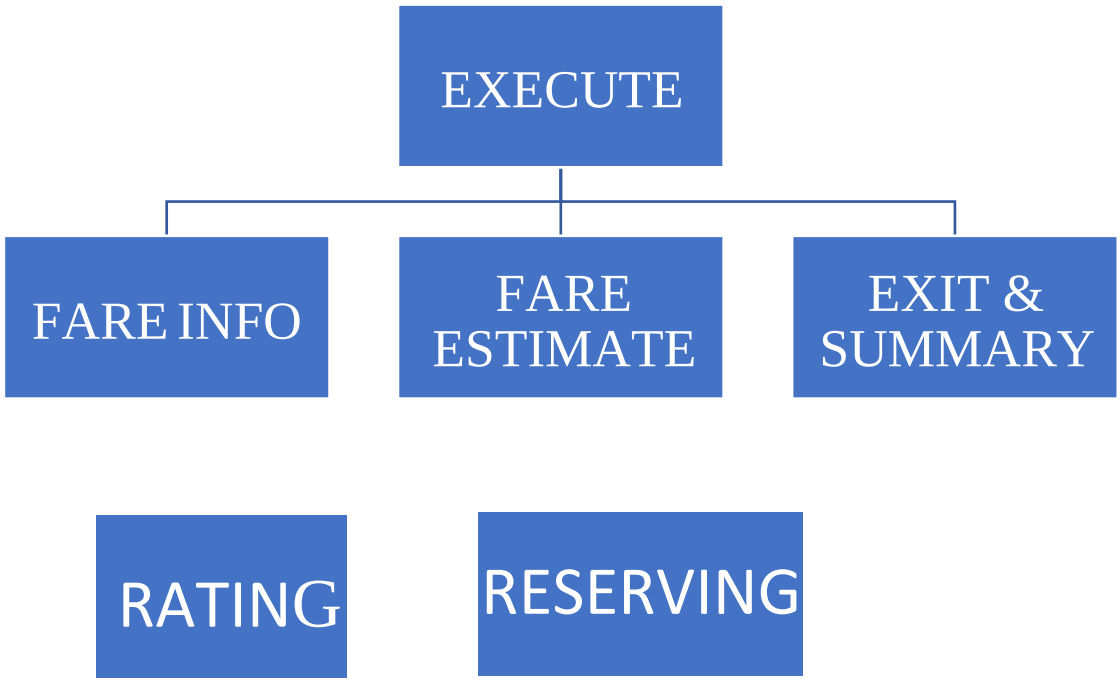
1.3 OPERATION ENVIRONMENT

OPERATING SYSTEM	Recommended Microsoft® Windows 7 SP1 (32-bit and 64-bit) Microsoft® Windows 8 or 8.1 (32-bit and 64-bit) Better Performance Microsoft® Windows 10 (32-bit and 64-bit)
MEMORY	1GB RAM Minimum 2GB RAM Recommended 3GB+ Better Performance
PROCESSOR	Intel® Pentium® or compatible, 1.6 GHz minimum (2GHz+ recommended)
HARD DISK	9-58 GB free hard disk space depending on edition and configuration, including space required for temporary files
PROGRAM TO RUN	ECLIPSE

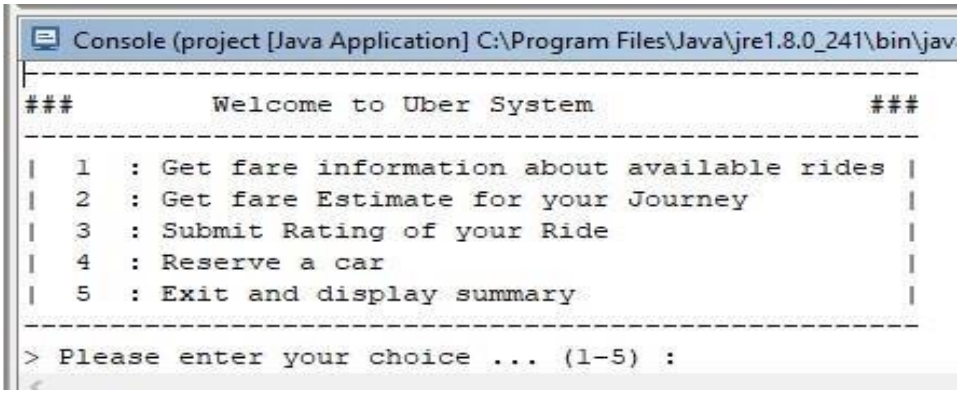
2.0 SYSTEM DESIGN

✞ In this section, we will see the design of the project in flow diagrams step by step.

2.1 PROJECT FLOW DIAGRAMS



✞ This is the first thing appear after user compiles and run the program.



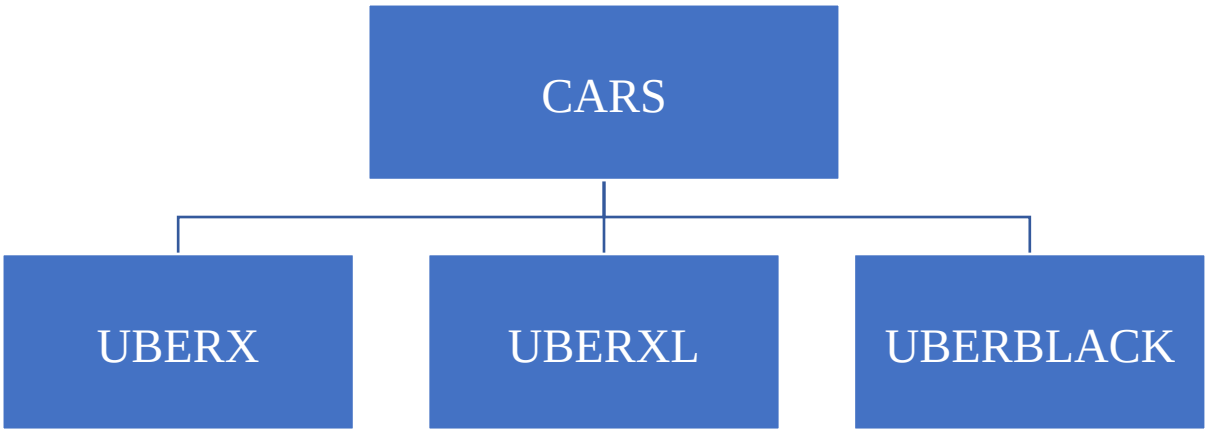
2.2 MAIN MENU CODE

First of all we will be having the menu code, for the customers to choose their own choice:

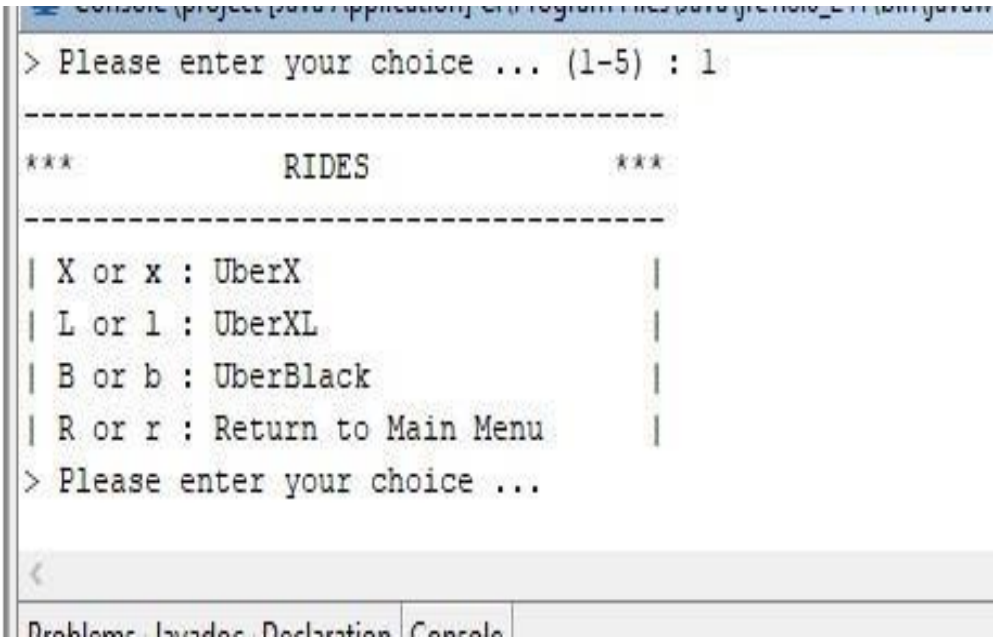
```
// an object from the scanner class

// we give to the initial variable a max value out of our range 1..5
int choice = 10;


LocalDate myObj = LocalDate.now(); // Create a date object •         System.out.println("\n\t\t  " + myObj); // Display the current date
LocalTime myOb = LocalTime.now();  •
System.out.println("\t      " + myOb);

System.out.println("-----------------------------------------------");
System.out.println("###        Welcome to Uber System ###");
System.out.println("-----------------------------------------------");
System.out.println("|  1  : Get fare information about available rides |");
System.out.println("|  2  : Get fare Estimate for your Journey         |");
System.out.println("|  3  : Submit Rating of your Ride |");
System.out.println("|  4  : Reserve a car |");
```

```
•                 System.out.println("|  5  : Exit and display summary
                  |");
•                 System.out.println("-----------------------------------
                  ----------------");
•                 System.out.print("> Please enter your choice ... (1-5)
                  :"); •         // waiting for the user to enter an
                  choice form the menu.
•                 // if the user enter a valid choice execute the try
                  block
•                 try {
•                 choice = input.nextInt();
•                 // if the user enter an invalid choice execute the
Exception block
•                 } catch (Exception e) {
•
•                 }
•                 return choice;
•                 }
```

2.3 UBER'S CAR FLOW DIAGRAMS



✞ After choosing number from (1-4) this 3 kind of cars will appear.



2.3.1 UBER'S CAR RIDE CODE

```
public static char rides(int menu) {

        Scanner input = new Scanner(System.in);// an object from the scanner class
double rideTimeInMinutes, rideDistanceKm;
double total = 0;         char choiceR, r;         int
rate;
        System.out.println("-------------------------------------");
        System.out.println("***            RIDES              ***");
        System.out.println("-------------------------------------");
        System.out.println("| X or x : UberX                    |");
        System.out.println("| L or l : UberXL                   |");
        System.out.println("| B or b : UberBlack                |");
        System.out.println("| R or r : Return to Main Menu      |");
        System.out.print("> Please enter your choice ... ");
        // waiting for the user to enter an choice form the rides menu
choiceR = input.next().charAt(0);
        // if the user enter r or R from the rides menu display invalid Choice
if (choiceR == 'R' | choiceR == 'r') {
            System.out.println("Invalid Choice !! Please Try agin ");
return choiceR;          }
        if (menu == 4) {
            System.out.println("Please provide the information about you :");
            System.out.println("-----------------------------------------------");
            System.out.println("Name :");
            String name = input.next();
            System.out.println("Your number : ");             int
num = input.nextInt();
System.out.println("Time :");            int n =
input.nextInt();
System.out.println("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");
switch (choiceR) {
                // if the user choose 2 from the main menu and choose x or X from
the rides menu                 case 'X':                 case 'x':

                    System.out.println("You have Reserved an UberX car ");
System.out.println("It will wait you five minutes before :
"+n+" O'Clock");
break;
                // if the user choose 2 from the main menu and choose l or L from
the rides menu
                case 'L':                 case
'l':
```

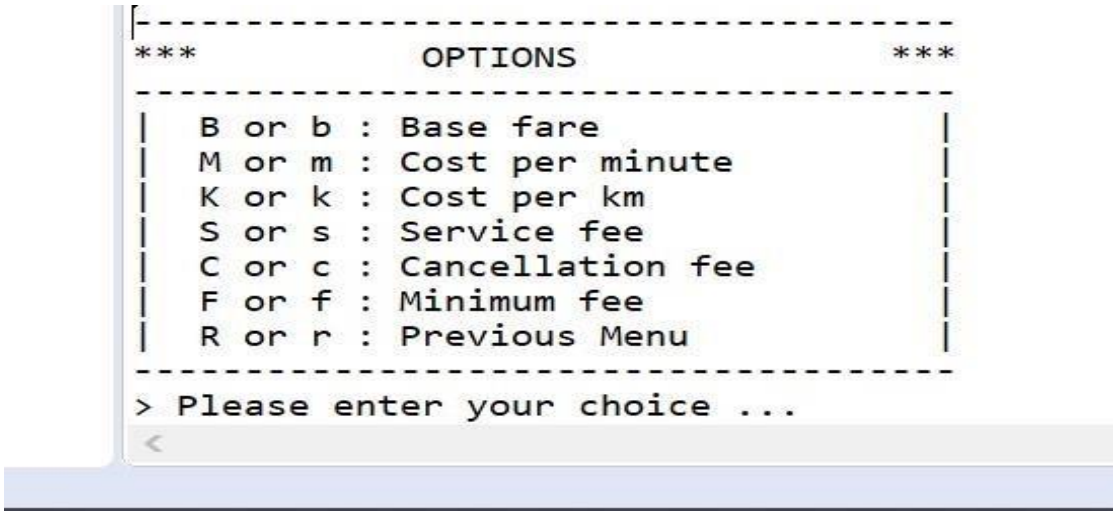
```
                    System.out.println("You have Reserved an UberXL car ");
System.out.println("It will wait you five minutes before :
"+n+" O'Clock");

                    break;

                // if the user choose 2 from the main menu and choose L OR l from
the rides menu                  case 'B':                  case 'b':
                       System.out.println("You have Reserved an UberBlack car ");
             System.out.println("It will wait you five minutes before :
"+n+" O'Clock");                    break;
            }
System.out.println("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");
}
        // if the user choose 2 from the main menu execute the if block
if (menu == 2) {
            System.out.println("Please provide the information about your journey
:");
            System.out.println("-----------------------------------------------");
            System.out.println("Ride time in minutes :");
rideTimeInMinutes = input.nextDouble();
System.out.println("Ride distance in KM (s) :");            rideDistanceKm =
input.nextDouble();

System.out.println("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");

            switch (choiceR) {
                // if the user choose 2 from the main menu and choose x or X from
the rides menu                  case 'X':                  case 'x':
                    counterXF++;                    total =
((rideTimeInMinutes * costPerMinuteUberX) +
(rideDistanceKm * costPerKmX));
                    if (total < baesFareUberX) {
                        System.out.println(" > Expected ride fare : " +
baesFareUberX + "$");                    } else {
                        System.out.println(" > Expected ride fare : " + total +
"$");
                    }
break;
                // if the user choose 2 from the main menu and choose l or L from
the rides menu                  case 'L':                  case 'l':
                    counterXLF++;                    total =
((rideTimeInMinutes * costPerMinuteUberXL) +
(rideDistanceKm * costPerKmXL));
                    if (total < baesFareUberXL) {
                        System.out.println(" > Expected ride fare : " +
baesFareUberXL + "$");                    } else {
                        System.out.println(" > Expected ride fare : " + total +
"$");
```

```
                    }
break;
                // if the user choose 2 from the main menu and choose L OR l from
the rides menu                 case 'B':                 case 'b':
counterXBF++;
                    total = ((rideTimeInMinutes * costPerMinuteUberXBlack) +
(rideDistanceKm * costPerKmXBlack));
                    if (total < baesFareUberXL) {
                        System.out.println(" > Expected ride fare :   " +
baesFareUberXL + "$");                     } else {
                        System.out.println(" > Expected ride fare : " + total +
"$");
                    }
break;
            }
System.out.println("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");
        }          switch
(choiceR) {             case
'X':             case
'x':             case 'B':
case 'b':             case 'L':
case 'l':
                if (menu == 4) {
                    if (choiceR == 'X' | choiceR == 'x') {
counterX++;
                    } else if (choiceR == 'L' | choiceR == 'l') {
counterXL++;
                    } else if (choiceR == 'B' | choiceR == 'b') {
counterXB++;
                    }


                }
                // if the user choose 1 from the main menu increment these counters
                if (menu == 1) {
                    if (choiceR == 'X' | choiceR == 'x') {
counterXR++;
                    } else if (choiceR == 'L' | choiceR == 'l') {
counterXLR++;
                    } else if (choiceR == 'B' | choiceR == 'b') {
counterXBR++;                     }
                    options(choiceR);
                }
                // if the user choose 3 from the main menu increment these counters
                else if (menu == 3) {
if (choiceR == 'X' | choiceR == 'x') {
counterXS++;
                    } else if (choiceR == 'L' | choiceR == 'l') {
counterXLS++;
                    } else if (choiceR == 'B' | choiceR == 'b') {
counterXBS++;                     }
                    rate = rating();
```

```
                }

                r = rides(menu);
break;             default:
                System.out.println("Invalid Choice !! Please Try again ");
r = rides(menu);          }
        return choiceR;
}
```

2.4 OPTIONS

After choosing FARE INFO this options will appear

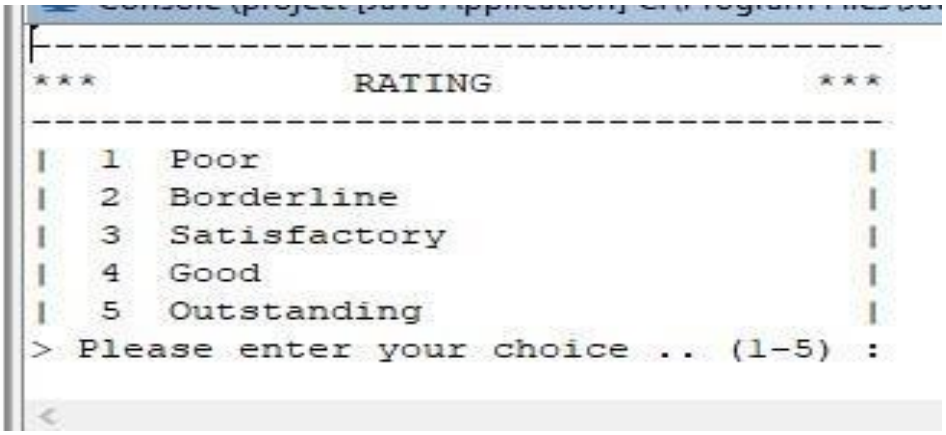


2.4.1 OPTIONS CODE

```
public static char options(char rides) {
            Scanner input = new Scanner(System.in);// an object from the scanner
class
            char o, choiceO;
int menu = 0;
            System.out.println("-------------------------------------");
            System.out.println("***          OPTIONS              ***");
            System.out.println("-------------------------------------");
            System.out.println("|  B or b : Base fare               |");
            System.out.println("|  M or m : Cost per minute         |");
            System.out.println("|  K or k : Cost per km             |");
            System.out.println("|  S or s : Service fee             |");
            System.out.println("|  C or c : Cancellation fee        |");
            System.out.println("|  F or f : Minimum fee             |");
System.out.println("|  R or r : Previous Menu           |");
            System.out.println("-------------------------------------");
            System.out.print("> Please enter your choice ... ");
            // waiting for the user to enter an choice form the options menu
choiceO = input.next().charAt(0);             if (choiceO == 'R' | choiceO
== 'r') {                 return choiceO;
            }
            // if the user choice was X or x execute the if block
if (rides == 'X' | rides == 'x') {                 switch
(choiceO) {                   case 'B':                       case
'b':
```

```
                        System.out.println("Base fare for UberX is " +
baesFareUberX + "$");                          break;                      case
'M':                     case 'm':
                        System.out.println("Cost per minute for UberX is " +
costPerMinuteUberX + "$");                          break;
case 'K':                     case 'k':
                        System.out.println("Cost per km for UberX is " +
costPerKmX + "$");                         break;                     case
'S':                     case 's':
                        System.out.println("Service fee for UberX is " +
serviceFeeX + "$");                          break;                      case
'C':                     case 'c':
                        System.out.println("Cancellation fee for UberX is " +
cancellationFeeX + "$");
break;                       case
'F':                     case 'f':
                        System.out.println("Minimum fee for UberX is " +
minimumFeeX + "$");                          break;
default:
                        System.out.println("Invalid Choice !! Please Try agin ");
options(rides);

                }            }
o = options(rides);
return choiceO;
        }
```

2.5 RATING



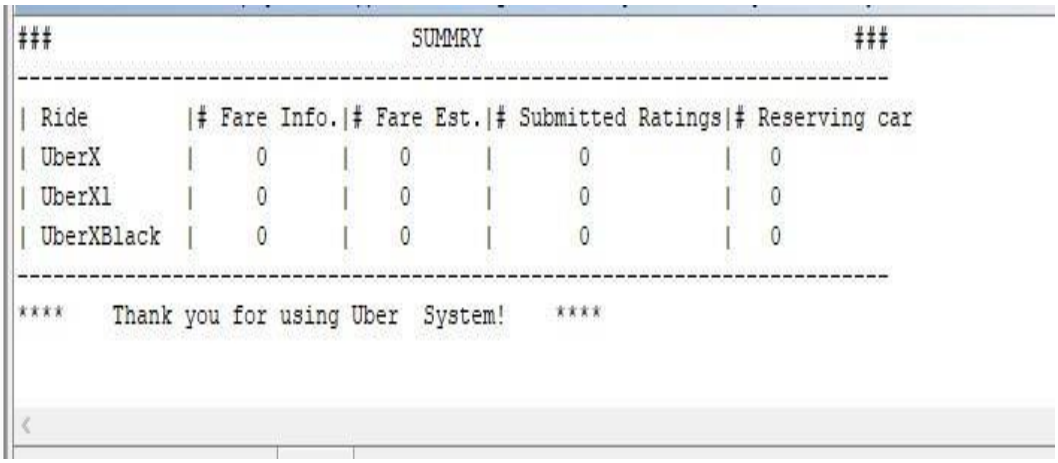
✞ If the customer rating has been chosen this three options will appear in screen.

2.5.1 RATING CODE:

```
public static int rating() {
            // an object from the scanner class
Scanner input = new Scanner(System.in);             int rate;
            System.out.println("-------------------------------------");
            System.out.println("***           RATING              ***");
            System.out.println("-------------------------------------");
            System.out.println("|  1  Poor                           |");
            System.out.println("|  2  Borderline                     |");
            System.out.println("|  3  Satisfactory                   |");
            System.out.println("|  4  Good                           |");
            System.out.println("|  5  Outstanding                    |");
            System.out.print("> Please enter your choice .. (1-5) :");
// waiting for the user to enter an choice form the rating menu             rate
= input.nextInt();
            System.out.println();
            System.out.println("          Thank you for your rating !");
System.out.println("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");
            System.out.println("             You give rating > " + rate + " <");


System.out.println("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");
return rate;

        }
```

2.6 SUMMARY:

✞ After choosing summary this will appear.



2.6.1 SUMMARY CODE:

```
   public static void summary() {
            System.out.println("-------------------------------------------------
-----------------------");
            System.out.println("###                                SUMMRY
###");
            System.out.println("-------------------------------------------------
-----------------------");
            System.out.println("| Ride        |# Fare Info.|# Fare Est.|#
Submitted Ratings|# Reserving car ");
            System.out.println("| UberX       |     " + counterXR + "      |    "
+ counterXF + "      |       " + counterXS + "           |   "+counterX);
            System.out.println("| UberXl      |     " + counterXLR + "      |    "
+ counterXLF + "      |       " + counterXLS + "           |   "+counterXL);
            System.out.println("| UberXBlack  |     " + counterXBR + "      |    "
+ counterXBF + "      |       " + counterXBS + "           |   "+counterXB);
            System.out.println("-------------------------------------------------
-----------------------");
            System.out.println("****    Thank you for using Uber  System!
****");
}
```

3.0 CONCLUSION:

3.1 ABOUT US:

This project's aim was to provide a stylish and nice cinema reservation system which will give advantages to the admin. This programme was built for the customer to help them puck their seats easier and. All customer information is automatically stored in the system in case it was needed safety, this information can only be accessed by the admin who knows the right username and password.

In conclusion, I would like to say I faced a lot of problems in this project but at the end, I could solve it by our great professor Prof. Dr. ALI GUNES and my friends.

3.2 EVALUATION:

From my experience with my project, I faced some problems but they were somehow main problems, like finding a suitable idea for the project and be able to display it using java collections and features. However, I see that my project is fully completed with all the requirements, but when it comes to improvements that I might add, it could be adding the admin's page, or sending my code to the real company as an additional idea that they may use in the future. It is so beneficial and I think it may be highly recommended.

6.0 REFRENCES

https://www.javatpoint.com/java-tutorial •

5.0 CODE

```
package Project;

/**
* *** This project was done by : ***
*
*  ABD ALRAHMAN MOHAMAD BASSAM S.SHEIKH SALEM B2015.010134
*
* course code : COM128
*
*
* Project title : UBER SYSTEM
*/

import java.time.LocalDate; // import the LocalDate class import
java.time.LocalTime; // import the LocalTime class import java.util.Scanner;
public class Project {

    /**
* @param args the command line arguments
     **/

//Fields
    public static double baesFareUberX = 2.55, baesFareUberXL = 3.85, baesFareUberXBlack
= 7;
    public static double costPerMinuteUberX = 0.35, costPerMinuteUberXL = 0.5,
costPerMinuteUberXBlack = 0.65;     public static double costPerKmX = 1.75, costPerKmXL
= 2.85, costPerKmXBlack = 3.75;     public static double minimumFeeX = 8, minimumFeeXL
= 10.5, minimumFeeXBlack = 15;

    public static String serviceFeeX = "NA ", serviceFeeXL = "NA", serviceFeeXBlack =
"NA";

    public static int cancellationFeeX = 5, cancellationFeeXL = 9, cancellationFeeXBlack = 15;


    public static int counterXR = 0, counterXLR = 0, counterXBR = 0;
```

```
public static int counterXF = 0, counterXLF = 0, counterXBF = 0;     public
static int counterXS = 0, counterXLS = 0, counterXBS = 0;     public static
int counterX = 0, counterXL = 0, counterXB = 0;


   static Scanner input = new Scanner(System.in);

   public static int menu() {
      // an object from the scanner class

      // we give to the initial variable a max value out of our range 1..5         int
choice = 10;


      LocalDate myObj = LocalDate.now(); // Create a date object
      System.out.println("\n\t\t  " + myObj); // Display the current date
      LocalTime myOb = LocalTime.now();
      System.out.println("\t      " + myOb);

      System.out.println("--------------------------------------------------");
      System.out.println("###       Welcome to Uber System              ###");
      System.out.println("--------------------------------------------------");
      System.out.println("|  1  : Get fare information about available rides |");
      System.out.println("|  2  : Get fare Estimate for your Journey        |");
      System.out.println("|  3  : Submit Rating of your Ride                |");
      System.out.println("|  4  : Reserve a car                             |");
      System.out.println("|  5  : Exit and display summary                  |");
      System.out.println("--------------------------------------------------");
System.out.print("> Please enter your choice ... (1-5) :");        //
waiting for the user to enter an choice form the menu.         // if the
user enter a valid choice execute the try block         try {
         choice = input.nextInt();
         // if the user enter an invalid choice execute the Exception block
} catch (Exception e) {

      }
      return choice;
   }


   public static char rides(int menu) {
```

```
Scanner input = new Scanner(System.in);// an object from the scanner class
double rideTimeInMinutes, rideDistanceKm;          double total = 0;          char
choiceR, r;
      int rate;
      System.out.println("-------------------------------------");
      System.out.println("***           RIDES             ***");
      System.out.println("-------------------------------------");
      System.out.println("| X or x : UberX                  |");
      System.out.println("| L or l : UberXL                 |");
      System.out.println("| B or b : UberBlack               |");
      System.out.println("| R or r : Return to Main Menu     |");
      System.out.print("> Please enter your choice ... ");
      // waiting for the user to enter an choice form the rides menu
choiceR = input.next().charAt(0);
      // if the user enter r or R from the rides menu display invalid Choice        if
(choiceR == 'R' | choiceR == 'r') {
         System.out.println("Invalid Choice !! Please Try agin ");
return choiceR;
      }
      if (menu == 4) {
         System.out.println("Please provide the information about you :");
         System.out.println("-----------------------------------------------");
         System.out.println("Name :");
         String name = input.next();
         System.out.println("Your number : ");
         int num = input.nextInt();
System.out.println("Time :");
         int n = input.nextInt();

System.out.println("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");
switch (choiceR) {
            // if the user choose 2 from the main menu and choose x or X from the rides
menu               case 'X':               case 'x':
               System.out.println("You have Reserved an UberX car ");
               System.out.println("It will wait you five minutes before : "+n+" O'Clock");
break;

            // if the user choose 2 from the main menu and choose l or L from the rides menu
case 'L':               case 'l':
               System.out.println("You have Reserved an UberXL car ");
               System.out.println("It will wait you five minutes before : "+n+" O'Clock");
```

```
break;

            // if the user choose 2 from the main menu and choose L OR l from the rides menu
case 'B':               case 'b':
                System.out.println("You have Reserved an UberBlack car ");
                System.out.println("It will wait you five minutes before : "+n+" O'Clock");
break;
          }

System.out.println("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");

       }
       // if the user choose 2 from the main menu execute the if block
if (menu == 2) {
          System.out.println("Please provide the information about your journey :");
          System.out.println("------------------------------------------------");
          System.out.println("Ride time in minutes :");
rideTimeInMinutes = input.nextDouble();          System.out.println("Ride
distance in KM (s) :");
rideDistanceKm = input.nextDouble();

System.out.println("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");

          switch (choiceR) {
             // if the user choose 2 from the main menu and choose x or X from the rides
menu              case 'X':              case 'x':              counterXF++;              total =
((rideTimeInMinutes * costPerMinuteUberX) + (rideDistanceKm *
costPerKmX));
                if (total < baesFareUberX) {
                   System.out.println(" > Expected ride fare : " + baesFareUberX + "$");
                } else {
                   System.out.println(" > Expected ride fare : " + total + "$");
                }
break;

             // if the user choose 2 from the main menu and choose l or L from the rides
menu              case 'L':              case 'l':              counterXLF++;              total
= ((rideTimeInMinutes * costPerMinuteUberXL) + (rideDistanceKm *
costPerKmXL));
                if (total < baesFareUberXL) {
                   System.out.println(" > Expected ride fare : " + baesFareUberXL + "$");
                } else {
```

```
                System.out.println(" > Expected ride fare : " + total + "$");
            }
break;

            // if the user choose 2 from the main menu and choose L OR l from the rides menu
case 'B':           case 'b':           counterXBF++;           total =
((rideTimeInMinutes * costPerMinuteUberXBlack) + (rideDistanceKm *
costPerKmXBlack));
            if (total < baesFareUberXL) {
                System.out.println(" > Expected ride fare :   " + baesFareUberXL + "$");
            } else {
                System.out.println(" > Expected ride fare : " + total + "$");
            }
break;
        }

System.out.println("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");

    }

    switch (choiceR)
{           case 'X':
case 'x':           case
'B':          case 'b':
case 'L':           case 'l':
            if (menu == 4) {
                if (choiceR == 'X' | choiceR == 'x') {
                    counterX++;
                } else if (choiceR == 'L' | choiceR == 'l') {
counterXL++;
                } else if (choiceR == 'B' | choiceR == 'b') {
counterXB++;
                }

            }
            // if the user choose 1 from the main menu increment these counters            if
(menu == 1) {
                if (choiceR == 'X' | choiceR == 'x') {
counterXR++;
                } else if (choiceR == 'L' | choiceR == 'l') {
counterXLR++;
```

```
                } else if (choiceR == 'B' | choiceR == 'b') {
counterXBR++;
                }
                options(choiceR);
}
            // if the user choose 3 from the main menu increment these counters
else if (menu == 3) {
                if (choiceR == 'X' | choiceR == 'x') {
counterXS++;
                } else if (choiceR == 'L' | choiceR == 'l') {
counterXLS++;
                } else if (choiceR == 'B' | choiceR == 'b') {
counterXBS++;
                }
                rate = rating();
            }

            r = rides(menu);
break;            default:
            System.out.println("Invalid Choice !! Please Try again ");
r = rides(menu);
        }
        return choiceR;
    }

        public static char options(char rides) {
            Scanner input = new Scanner(System.in);// an object from the scanner class
char o, choiceO;            int menu = 0;
            System.out.println("-------------------------------------");
            System.out.println("***          OPTIONS              ***");
            System.out.println("-------------------------------------");
            System.out.println("|  B or b : Base fare              |");
            System.out.println("|  M or m : Cost per minute        |");
            System.out.println("|  K or k : Cost per km            |");
            System.out.println("|  S or s : Service fee            |");
            System.out.println("|  C or c : Cancellation fee       |");
            System.out.println("|  F or f : Minimum fee            |");
            System.out.println("|  R or r : Previous Menu          |");
            System.out.println("-------------------------------------");
            System.out.print("> Please enter your choice ... ");
            // waiting for the user to enter an choice form the options menu
choiceO = input.next().charAt(0);            if (choiceO == 'R' | choiceO
```

```
== 'r') {                return
choiceO;
        }
        // if the user choice was X or x execute the if block
        if (rides == 'X' | rides == 'x') {
switch (choiceO) {                case
'B':                case 'b':
                System.out.println("Base fare for UberX is " + baesFareUberX + "$");
break;                case 'M':                case 'm':
                System.out.println("Cost per minute for UberX is " + costPerMinuteUberX +
"$");
                break;
case 'K':                case
'k':
                System.out.println("Cost per km for UberX is " + costPerKmX + "$");
break;                case 'S':                case 's':
                System.out.println("Service fee for UberX is " + serviceFeeX +
"$");                break;                case 'C':                case 'c':
                System.out.println("Cancellation fee for UberX is " + cancellationFeeX +
"$");
                break;
case 'F':                case
'f':
                System.out.println("Minimum fee for UberX is " + minimumFeeX + "$");
break;                default:
                System.out.println("Invalid Choice !! Please Try agin ");
options(rides);

            }
}
        // if the user choice was X or x execute the if block
        if (rides == 'L' | rides == 'l') {
switch (choiceO) {                case
'B':                case 'b':
                System.out.println("Base fare for UberXL is " + baesFareUberXL + "$");
break;                case 'M':                case 'm':
                System.out.println("Cost per minute for UberXL is " + costPerMinuteUberXL
+ "$");
                break;
case 'K':                case
'k':
```

```
                System.out.println("Cost per km for UberXL is " + costPerKmXL + "$");
break;              case 'S':               case 's':
                System.out.println("Service fee for UberXL is " + serviceFeeXL + "$");
break;              case 'C':               case 'c':
                System.out.println("Cancellation fee for UberXL is " + cancellationFeeXL +
"$");
                break;
case 'F':               case
'f':
                System.out.println("Minimum fee for UberXL is " + minimumFeeXL + "$");
break;
            }
}
        // if the user choice was X or x execute the if block
        if (rides == 'B' | rides == 'b') {
switch (choiceO) {              case
'B':              case 'b':
                System.out.printf("Base fare for UberBlack is " + baesFareUberXBlack +
"$");
                break;
case 'M':               case
'm':
                System.out.printf("Cost per minute for UberBlack is " +
costPerMinuteUberXBlack + "$");
                break;
case 'K':               case
'k':
                System.out.printf("Cost per km for UberBlack is " + costPerKmXBlack +
"$");
                break;
case 'S':               case 's':
                System.out.printf("Service fee for UberBlack is " + serviceFeeXBlack + "$");
break;              case 'C':               case 'c':
                System.out.printf("Cancellation fee for UberBlack is " +
cancellationFeeXBlack + "$");
                break;
case 'F':               case
'f':
                System.out.printf("Minimum fee for UberBlack is " + minimumFeeXBlack +
"$");
                break;
            }
        }
```

```
            o = options(rides);
            return choiceO;
        }


        public static int rating() {
            // an object from the scanner class
            Scanner input = new Scanner(System.in);            int
rate;
            System.out.println("-----------------------------------");
            System.out.println("***          RATING             ***");
            System.out.println("-----------------------------------");
            System.out.println("|  1  Poor                       |");
            System.out.println("|  2  Borderline                 |");
            System.out.println("|  3  Satisfactory               |");
            System.out.println("|  4  Good                       |");
            System.out.println("|  5  Outstanding                |");
            System.out.print("> Please enter your choice .. (1-5) :");          //
waiting for the user to enter an choice form the rating menu           rate
= input.nextInt();
            System.out.println();
            System.out.println("         Thank you for your rating !");

System.out.println("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");
            System.out.println("           You give rating > " + rate + " <");

System.out.println("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");
return rate;


        }
        public static void summary() {
            System.out.println("-------------------------------------------------------------------------");
            System.out.println("###                      SUMMRY                          ###");
            System.out.println("-------------------------------------------------------------------------
");            System.out.println("| Ride       |# Fare Info.|# Fare Est.|# Submitted Ratings|#
Reserving car ");
            System.out.println("| UberX      |    " + counterXR + "     |    " + counterXF + "     |
" + counterXS + "          |   "+counterX);
            System.out.println("| UberXl     |    " + counterXLR + "     |    " + counterXLF + "     |
" + counterXLS + "          |   "+counterXL);
            System.out.println("| UberXBlack |    " + counterXBR + "     |    " + counterXBF + "
|      " + counterXBS + "          |   "+counterXB);
```

```
        System.out.println("--------------------------------------------------------------------------");
System.out.println("****    Thank you for using Uber  System!    ****");
    }

        public static void main(String[] args) {


            //double rideTimeInMinutes , perMinute , rideDistanceKm , costPerMinute ;
int rate, m;              char r = 0;
            // call the menu method              m
= menu();

            while (m >= 1) {
               // if the user choose number more than 4 promot the user to enter number from 1
to 4
               if (m > 5) {
                  System.out.println();
                  System.out.println("Invalid Choice !! Please Try agin");
System.out.println();
}
               //if the user enter from the menu 1 go to the rides and options and rating method
else if (m == 1) {                    r = rides(m);                }
               // if the user choose from the main menu 2 or 3 go the rides method
else if (m == 2 | m == 3) {
                  r = rides(m);
               }
              else if (m == 4)
{
r = rides(m);              }
               // if the user choose from the main menu 5 go the summary method
else if (m == 5) {                    summary();                    break;
               }
               // when the loop finish display the main menu again                  m
= menu();
            }
        }
    }
```