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**TAXIDATABASE MANAGEMNET SYSTEM**

**ABSTRACT**

There is nothing more convenient then getting the right thing at the right moment. And isn’t it all for which we all work hard and try to acquire all kind of resources so that we can get whenever whatever we want. With the growing complexities in metro cities, frequent commutation from one place to another has become a challenge. Be it a daily job or an occasional emergency, your own car may not always be the best option to serve all these purposes. And that is where the role of professional taxi services comes in.

The platform shall offer an administration interface where the taxi company can manage the content, and access all bookings and customer information. More and more Taxi companies are looking for integrated taxi booking systems as it makes life much easier for (1) The traveller - this is highly important and in today's internet age people should be able to book taxis online without having to pick up the phone and (2) the taxi company as all their bookings are now managed via an automated system which means they have an electronic record of upcoming and old bookings

 The individual who want to hire/rent a car must first contact the cab hiring company for the desire vehicle. This can be done online. At this point, this person has to supply some information such as: dates of rental, and type of car. After these details are worked out, the individual renting the car must present a valid Identification Card. Most companies throughout the industry make a profit based of the type of cars. The hiring cabs are categorized into economy, compact, compact premium; premium and luxury & customers are free to choose any car of their choice based on their purse and availability of such car at the time of reservation.

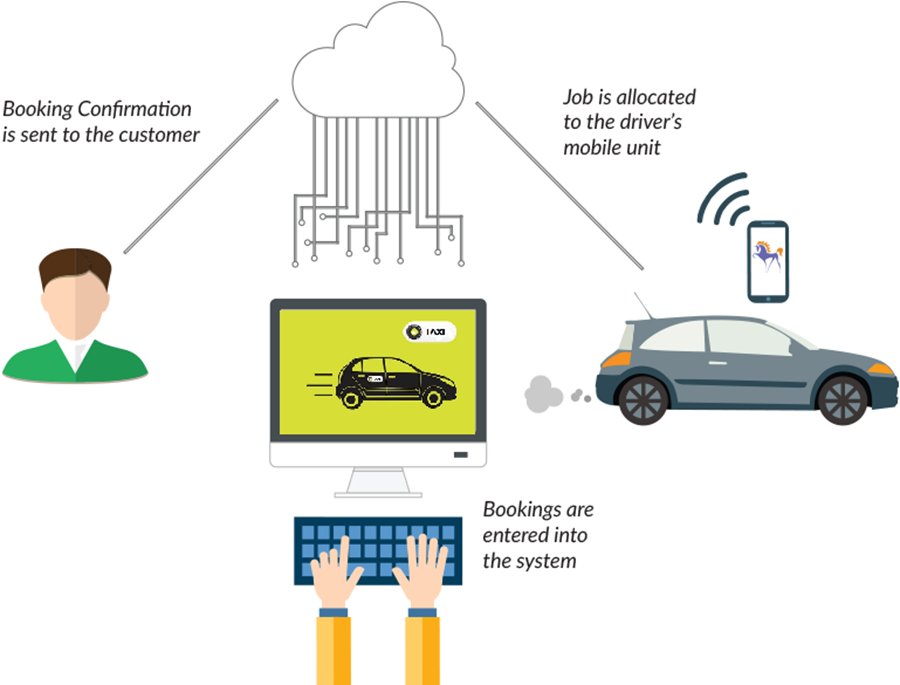
 This project intends to introduce more user friendly in the various activities such as record updating, maintenance, and searching. The objective and scope of our project Taxi Management System is to record the details various activities of user. It will simplify the task and reduce the paper work. To produce a web-based system that allow customer to register and reserve cab online

**PROBLEM STATEMENT**

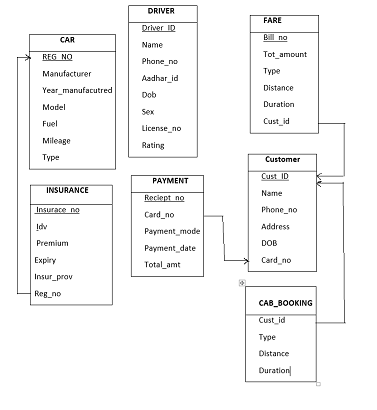
A Taxi Management System has to keep information about their customers. They must offer the customers their choice in car. Also based on availability the car must be booked for the corresponding customer with highest rated driver available. A good management system takes good care of their drivers and their cars. The complete profile of Drivers and Cars must be stored in the database. Importance should also be given to Insurance Details of the car. Finally a reasonable fair should be charged and accounted. It is important to store details like method of payment, receipt no, distance travelled etc..

Following could be some of the possible info that could be collected:

1. CUSTOMER: Name, Address, ID, Age, Phone No.
2. FARE: Customer ID, Distance, Duration, Car Type
3. PAYMENT: Mode of payment, Date, Card No., Receipt No.
4. DRIVER: ID, License, Aadhar ID, Rating, Phone No., Address
5. INSURANCE: Insured Value, Validity, Reference No.
6. CAR : Registration No., Engine No., Type, Mileage, Chassis No.



**LOGICAL SCHEMA**



**SAMPLE DATA**

CAR

(KA20A1234, Suzuki, 2010, desire, P, 20 , luxury)

(KA20A1234, Pusuki, 2012, Dzy, D, 20 , Economy)

(KA19A2345, Kisashi, 2013, Priscel, D, 24 , Economy)

CUSTOMER

(12345, Prajwal, 672172617, heavenland, 13-jun-97, 5434)

(12348, Prap, 872172617, heuyu, 13-jun-98, 5439)

(18348, Ninad, 87217234, hellland, 13-july-99, 5438)

DRIVER

(42345, Trajwal, 672172907, heavenhell, 123232,13-jun-97, M,54314,3)

(42347, Traj, 872172907, hellop, 123212,14-may-97, M,54312,7)

(42349, Rajwal, 672172909, Mayway, 12324,17-sep-97, F,54365,9)

FARE

(135, 12, Economy, 12, 60, 12345)

(138, 3, Economy, 2, 10, 12348)

(139, 300, Luxury, 10, 15, 18348)

INSURANCE

(2412, 8.0L, 8000, 21-jul-2020, Mahindra, KA20m1234)

(2413, 12.0L, 9000, 23-jul-2023, Mahindra, KA20t1234)

(2414, 12.0L, 7000, 13-jul-2029,Reliance, JKE2345)

PAYMENT

(12,5484,credit\_card,08-sep-2016,150)

(13,5471,credit\_card,08-sep-2016,350)

(16,5124,credit\_card,09-sep-2016,50)

CAR\_BOOKING

(12345,Luxury,12,60)

(12348,Luxury,16,20)

(18348,Luxury,40,30)

**SQL COMMANDS**

drop table PAYMENT;

drop table FARE;

drop table INSURANCE;

drop table CAR;

drop table CUSTOMER;

drop table DRIVER;

drop table TAXI\_BOOKING;

create table CAR (

REG\_NO varchar(9) primary key,

MANUFACTURER varchar(15),

YEAR\_MFG date,

MODEL varchar(10),

FUEL varchar(10) ,

MILEAGE int,

TYPE varchar(10),

check (FUEL in ('PETROL','DIESEL')));

create table INSURANCE(

INSURANCENUM varchar(10) primary key,

IDV int,

PREMIUM int,

EXPIRY date,

INSUR\_PROVIDER varchar(15),

REG\_NO varchar(9),

foreign key (REG\_NO) references CAR);

create table CUSTOMER(

CUSTOMER\_ID varchar(10) primary key,

NAME varchar(15),

ADDRESS varchar(15),

PHONE int unique,

DOB date,

CARD\_NO varchar (10) unique);

create table DRIVER(

DRIVER\_ID varchar(10) primary key,

NAME varchar(15),

PHONE int unique,

AADHAR\_ID int unique,

DOB date,

SEX varchar(10),

LICENSE\_NO varchar(10) unique,

RATING int,

check (SEX in ('MALE','FEMALE','OTHERS')),

check (RATING>1 and RATING<10));

create table FARE (

BILL\_NO int,

TOTAL\_AMOUNT int,

TYPE varchar(10),

DISTANCE int,

DURATION\_MIN int,

CUSTOMER\_ID varchar(10),

foreign key (CUSTOMER\_ID) references CUSTOMER,

primary key(BILL\_NO);

create table PAYMENT(

CARD\_NO varchar(10),

PAYMENT\_MODE varchar(10),

RECEIPT\_NO varchar(10),

PAYMENT\_DATE date,

TOTAL\_AMOUNT int,

CUSTOMER\_ID varchar(10),

foreign key (CUSTOMER\_ID) references CUSTOMER,

primary key (RECEIPT\_NO));

create table TAXI\_BOOKING(

CUSTOMER\_ID varchar(10),

TYPE varchar(10),

DISTANCE int,

DURATION\_MIN int,

foreign key(CUSTOMER\_ID) references CUSTOMER);

**QUERIES USED**

select \* from DRIVER where driver\_id= x ;

select \* from CUSTOMER where customer\_id= x;

select \* from CAR;

select \* from CUSTOMER;

select \* from DRIVER;

select \* from INSURANCE;

insert into PAYMENT values (card, ‘CARD’, rec\_no, current\_date, amt, Customer\_ID );

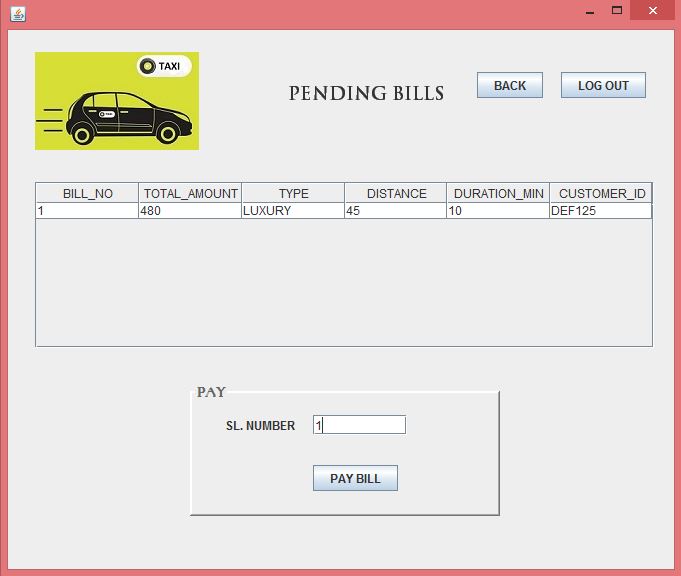
delete from FARE where BILL\_NO=x;

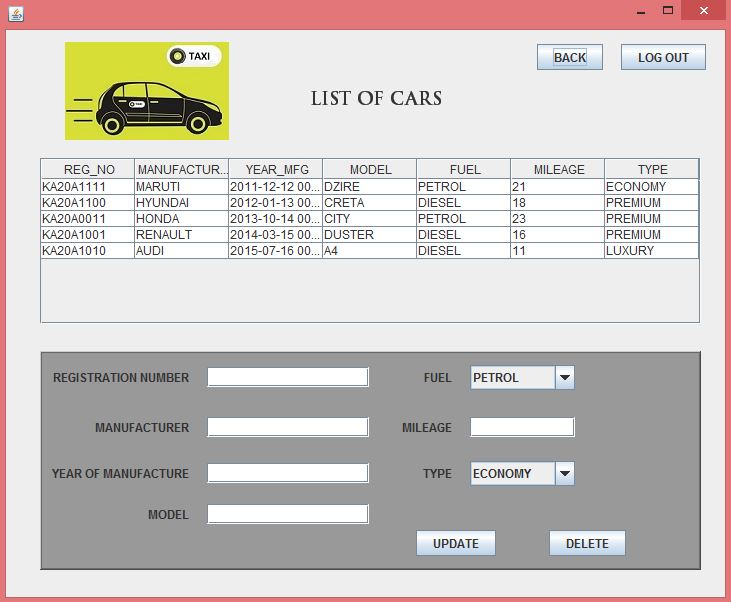
insert into TAXI\_BOOKING values (Customer\_ID, TYPE, DISTANCE, DURATION);

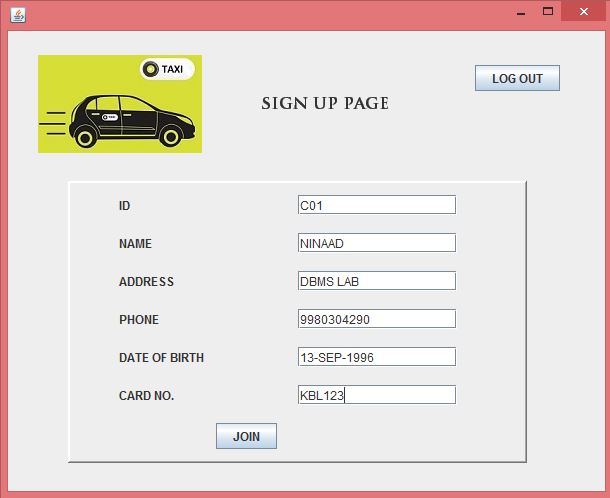
(x: input from the keyboard)

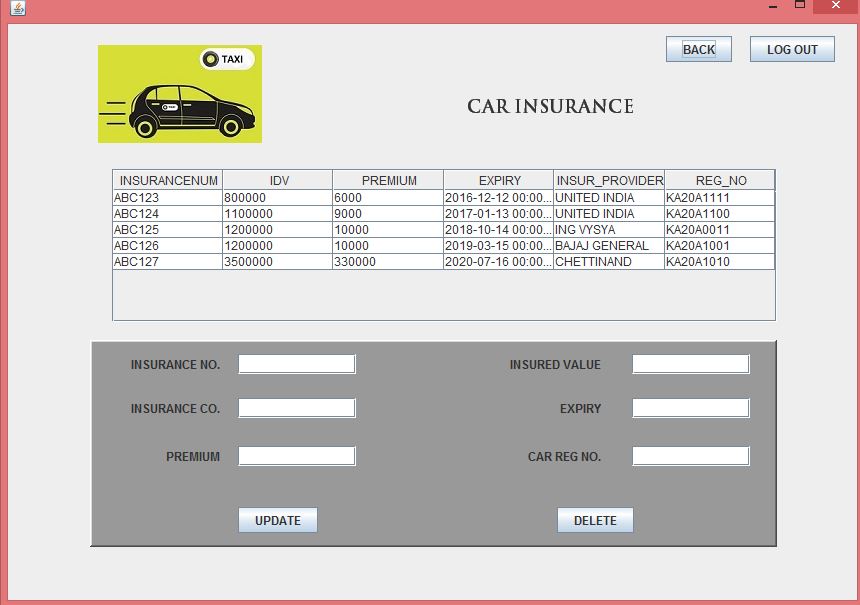
**UI DESIGN**

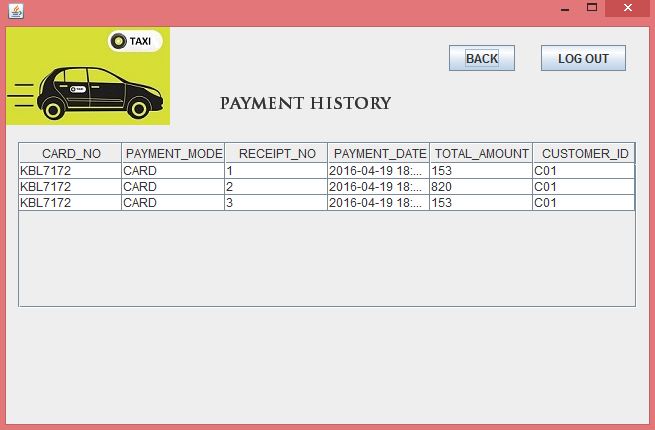


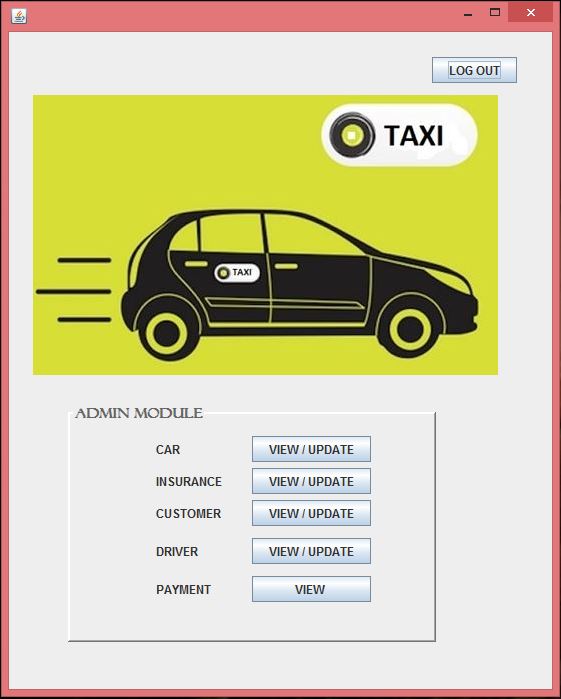










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**JAVA CODE**

**TAXI MANAGEMENT**

package taximanagement;

import java.sql.\*;

public class TaxiManagement {

public static void main(String[] args) {

Login a=new Login();

a.setVisible(true);

}

}

**JAVA CONNECT DB**

package taximanagement;

import java.sql.\*;

import javax.swing.\*;

public class JavaConnectDB {

public static Connection ConnecrDb() {

try {

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","system","planetV26");

return con;

}

catch(Exception e){

JOptionPane.showMessageDialog(null, e);

}

return null;

}

}

**LOGIN**

package taximanagement;

import java.awt.\*;

import java.sql.\*;

import javax.swing.\*;

import java.awt.event.\*;

public class Login extends javax.swing.JFrame {

Connection conn=null;

ResultSet rs=null;

PreparedStatement pst=null;

public Login() {

initComponents();

conn=JavaConnectDB.ConnecrDb();

}

private void initComponents() {

canvas1 = new java.awt.Canvas();

jPanel1 = new javax.swing.JPanel();

label2 = new java.awt.Label();

label1 = new java.awt.Label();

LOGIN = new javax.swing.JButton();

ComboBox\_UserType = new javax.swing.JComboBox<>();

PasswordField\_ID = new javax.swing.JPasswordField();

jLabel2 = new javax.swing.JLabel();

SIGN\_UP = new javax.swing.JButton();

jLabel1 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

label3 = new java.awt.Label();

setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE\_ON\_CLOSE);

setBackground(new java.awt.Color(204, 204, 0));

getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED), "SIGN IN", javax.swing.border.TitledBorder.DEFAULT\_JUSTIFICATION, javax.swing.border.TitledBorder.DEFAULT\_POSITION, new java.awt.Font("Felix Titling", 1, 14), new java.awt.Color(255, 255, 255)));

jPanel1.setToolTipText("LOGIN");

jPanel1.setFont(new java.awt.Font("Tahoma", 0, 12));

jPanel1.setName("LOGIN");

jPanel1.setOpaque(false);

label2.setAlignment(java.awt.Label.CENTER);

label2.setBackground(new java.awt.Color(0, 0, 0));

label2.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND\_CURSOR));

label2.setFont(new java.awt.Font("Felix Titling", 0, 13));

label2.setForeground(new java.awt.Color(204, 204, 204));

label2.setText("USER TYPE");

label1.setAlignment(java.awt.Label.CENTER);

label1.setBackground(new java.awt.Color(0, 0, 0));

label1.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND\_CURSOR));

label1.setFont(new java.awt.Font("Felix Titling", 0, 13)); label1.setForeground(new java.awt.Color(204, 204, 204));

label1.setText("ID");

LOGIN.setBackground(new java.awt.Color(102, 102, 102));

LOGIN.setFont(new java.awt.Font("Arial", 1, 12)); LOGIN.setForeground(new java.awt.Color(255, 255, 255));

LOGIN.setText("LOGIN");

LOGIN.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

LOGINActionPerformed(evt);

}

});

ComboBox\_UserType.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "ADMIN", "CLIENT", "DRIVER" }));

jLabel2.setForeground(new java.awt.Color(255, 255, 255));

jLabel2.setText("NEW USER? ");

SIGN\_UP.setBackground(new java.awt.Color(102, 102, 102));

SIGN\_UP.setForeground(new java.awt.Color(255, 255, 255));

SIGN\_UP.setText("SIGN UP");

SIGN\_UP.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

SIGN\_UPActionPerformed(evt);

}

});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);

jPanel1.setLayout(jPanel1Layout);

jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGap(60, 60, 60)

.addComponent(jLabel2)

.addGap(18, 18, 18)

.addComponent(SIGN\_UP))

.addGroup(jPanel1Layout.createSequentialGroup()

.addGap(30, 30, 30)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(label2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(label1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(33, 33, 33)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(LOGIN)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(ComboBox\_UserType, 0, 109, Short.MAX\_VALUE)

.addComponent(PasswordField\_ID)))))

.addContainerGap(74, Short.MAX\_VALUE))

);

jPanel1Layout.linkSize(javax.swing.SwingConstants.HORIZONTAL, new java.awt.Component[] {label1, label2});

jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGap(25, 25, 25)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(label2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(ComboBox\_UserType, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(label1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(PasswordField\_ID, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addComponent(LOGIN)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 35, Short.MAX\_VALUE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 32, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(SIGN\_UP)))

);

getContentPane().add(jPanel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(590, 380, -1, -1));

jLabel1.setIcon(new javax.swing.ImageIcon("C:\\Users\\MAHE\\Desktop\\Capture.JPG")); // NOI18N

getContentPane().add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(70, 60, 460, 270));

jLabel3.setIcon(new javax.swing.ImageIcon("C:\\Users\\MAHE\\Documents\\Ninaad\\MIT\\DBS\\Project\\2013-ferrari-limited-special-series-laferrari-4-1280x853.jpg")); // NOI18N

jLabel3.setText("jLabel3");

getContentPane().add(jLabel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 1000, 650));

label3.setAlignment(java.awt.Label.CENTER);

label3.setBackground(new java.awt.Color(0, 0, 0));

label3.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND\_CURSOR));

label3.setFont(new java.awt.Font("Felix Titling", 0, 13)); // NOI18N

label3.setForeground(new java.awt.Color(204, 204, 204));

label3.setText("NINAD SHETTY - PRAJWAL CHADAGA");

getContentPane().add(label3, new org.netbeans.lib.awtextra.AbsoluteConstraints(70, 60, -1, 30));

pack();

}

public void close()

{

WindowEvent winClosingEvent= new WindowEvent(this,WindowEvent.WINDOW\_CLOSING);

Toolkit.getDefaultToolkit().getSystemEventQueue().postEvent(winClosingEvent);

}

private void LOGINActionPerformed(java.awt.event.ActionEvent evt) {

close();

Object temp=ComboBox\_UserType.getSelectedItem();

String user=temp.toString();

String pass=PasswordField\_ID.getText();

if(user.equals("ADMIN")&&pass.equals("ADMIN"))

{

Admin\_Module adm = new Admin\_Module();

adm.setVisible(true);

}

else if(user.equals("CLIENT"))

{

try {

String qry="select \* from CUSTOMER where customer\_id= '"+pass+"'";

pst=conn.prepareStatement(qry);

rs=pst.executeQuery();

if(rs.next())

{

CUSTOMER\_MODULE cm =new CUSTOMER\_MODULE(pass);

cm.setVisible(true);

}

else

{

JOptionPane.showMessageDialog(null,"INVALID CUSTOMER ID : "+pass);

}

}

catch(Exception e){

JOptionPane.showMessageDialog(null,e);

}

}

else if(user.equals("DRIVER"))

{

try {

String qry="select \* from DRIVER where driver\_id= '"+pass+"'";

pst=conn.prepareStatement(qry);

rs=pst.executeQuery();

if(rs.next())

{

DRIVER\_MODULE cm =new DRIVER\_MODULE(pass);

cm.setVisible(true);

}

else

{

JOptionPane.showMessageDialog(null,"INVALID DRIVER ID : "+pass);

}

}

catch(Exception e){

JOptionPane.showMessageDialog(null,e);

}

}

else

JOptionPane.showMessageDialog(null,"INVALID ID");

}

private void SIGN\_UPActionPerformed(java.awt.event.ActionEvent evt) {

close();

Sign\_Up su =new Sign\_Up();

su.setVisible(true);

}

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new Login().setVisible(true);

}

});

}

private javax.swing.JComboBox<String> ComboBox\_UserType;

private javax.swing.JButton LOGIN;

private javax.swing.JPasswordField PasswordField\_ID;

private javax.swing.JButton SIGN\_UP;

private java.awt.Canvas canvas1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JPanel jPanel1;

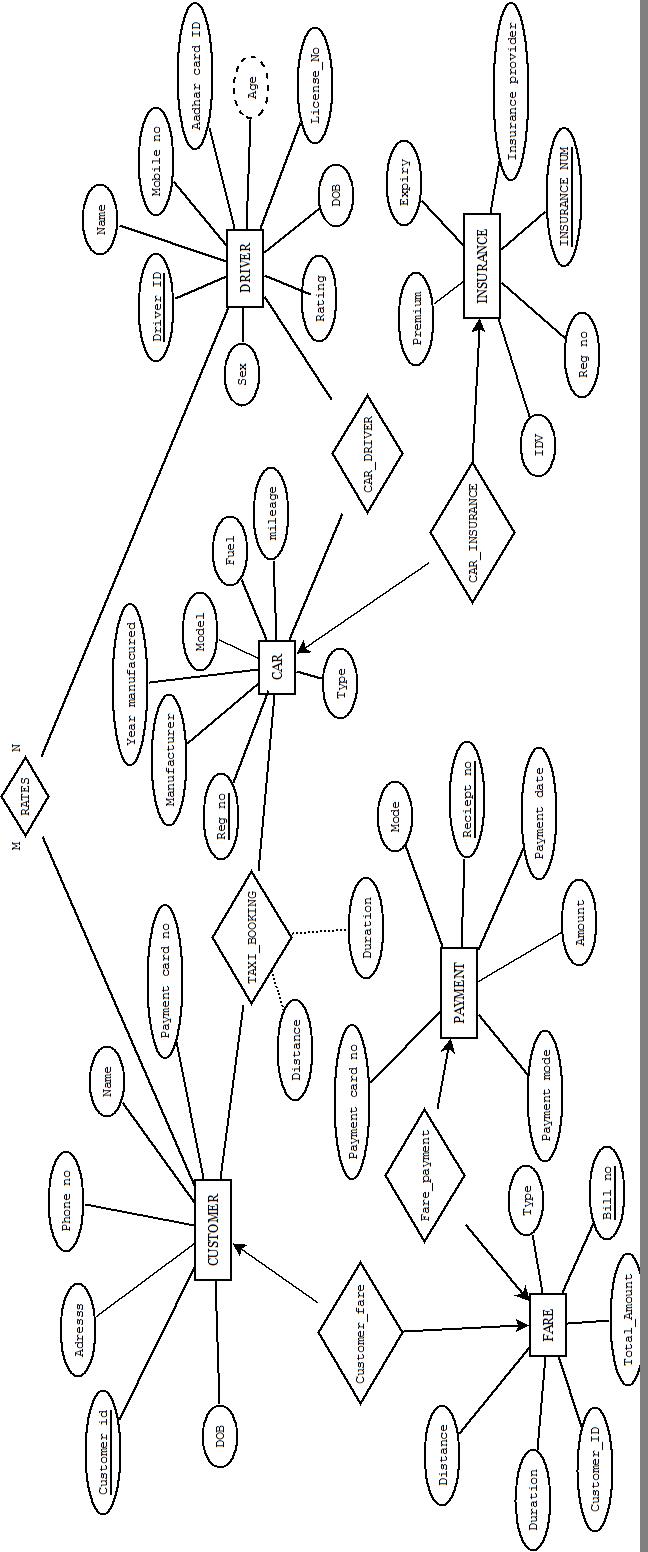
private java.awt.Label label1;

private java.awt.Label label2;

private java.awt.Label label3;

}

}

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