

ADMIN CLASS:

```
package vehler;

/**
 *
 * @author user
 */
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.swing.JOptionPane;

public class Admin {

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

    DbConnection conn = new DbConnection();
    PreparedStatement pst = null;
    ResultSet rst = null;

    public void changePassword(String username, String newPassword)
    {
        int flag;

        try{
            conn.openConnection();
            String sql = "UPDATE Admin SET AdminP = '"+ newPassword +" ' where AdminID = '"+username+ "'";

            flag = conn.InsertUpdateDelete(sql);
            if(flag == 1){
                JOptionPane.showMessageDialog(null, "YOUR PASSWORD HAS BEEN CHANGED ");
            }
            else{
                JOptionPane.showMessageDialog(null, "YOUR PASSWORD COULDn't BE CHANGED");
            }
        }
        catch(Exception e){
            JOptionPane.showMessageDialog(null, "UpdatePassword Query Failed");
        }
    }

    public boolean chkAdminPass(String id, String pass){
```

```

        boolean flag = false;

        try{
            conn.OpenConnection();
            String sql = "Select AdminID,AdminP from AdminT where AdminID = '"
+ id + "' and AdminP = '" + pass + "'";
            rst= conn.GetData(sql);
            if(rst.next()){
                flag= true;
            }
            else
                flag= false;
            conn.CloseConnection();
        }
        catch(Exception e){
            JOptionPane.showMessageDialog(null, e+"\nInvalid Username or
Password");
        }
        return flag;
    }
    public ResultSet RideRealTimeCombined()
    {
        ResultSet rst1=null;

        try{
            conn.OpenConnection();
            String sql = "Select
Datee,Username,VehiclePlate,PUsername,Fromm,Too,StartTime,EndTime,RideStatus,B
illStatus,Bill,NoOfPassengers from RideRealtime ";
            rst1= conn.GetData(sql);
            do{
                return rst1;
            }
            while(rst1.next());
        }
        catch(Exception e){
            JOptionPane.showMessageDialog(null, e+"\nRide Realtime Combined
Error");
        }

        conn.CloseConnection();
        return null;
    }
}

```

CUSTOMER FUNCTION:

```
package vehler;

/**
 *
 * @author user
 */
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.swing.JOptionPane;

public class Passenger {

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

    DbConnection conn = new DbConnection();
    PreparedStatement pst = null;
    ResultSet rst = null;

    private String name, fName, age, gender, sec, user, pass, cnic, contactNo, dob;

    Passenger()
    {

    }

    Passenger(String name, String fName, String age, String gender, String
sec, String user, String pass, String cnic, String contactNo, String dob)
    {
        this.name=name;
        this.fName=fName;
        this.age=age;
        this.gender=gender;
        this.sec=sec;
        this.user=user;
        this.pass=pass;
        this.cnic=cnic;
        this.contactNo=contactNo;
        this.dob=dob;
    }

    public boolean verifySecurity0(String username, String securityQuestion)

    {
        boolean flag = false;
```

```

        try{
            conn.OpenConnection();
            String sql="Select PID,PSec, from PassengerT where PID = '" +
username + "' and PSec = '" + securityQuestion + "'";

            rst= conn.GetData(sql);
            if(rst.next())
            {
                flag=true;
            }

            else
            flag=false;
            conn.CloseConnection();

        }
        catch(Exception e){
            JOptionPane.showMessageDialog(null, e+"\n Verify SecurityQ
Passenger Error");
        }
        return flag;
    }
    public void changePassword(String username,String newPassword)
    {
        int flag;

        try{
            conn.OpenConnection();
            String sql = "UPDATE PassengerT SET PPass = '"+ newPassword +"' where
PID = '"+username+ "'";

            flag = conn.InsertUpdateDelete(sql);
            if(flag == 1){
                JOptionPane.showMessageDialog(null, "YOUR PASSWORD HAS BEEN
CHANGED ");
            }
            else{
                JOptionPane.showMessageDialog(null, "YOUR PASSWORD COULdn't BE
CHANGED");
            }
        }
        catch(Exception e){
            JOptionPane.showMessageDialog(null, "UpdatePassword Query
Failed");
        }

    }
}

```

```

public boolean chkPassPass(String id, String pass){
    boolean flag = false;

    try{
        conn.OpenConnection();
        String sql = "Select PID,PPass from PassengerT where PID = '" + id
+ "' and PPass = '" + pass + "'";
        rst= conn.GetData(sql);
        if(rst.next()){
            flag= true;
        }
        else
            flag= false;
        conn.CloseConnection();
    }
    catch(Exception e){
        JOptionPane.showMessageDialog(null, e+"\nChecklogin ChkAdminPass
Error");
    }
    return flag;
}

public void addPassPass()
{
    try
    {
        DbConnection conn = new DbConnection();
        conn.OpenConnection();
        String sql="Insert into PassengerT (PID, PPass, PName,PName, PAge,
PGender, PSec,CNIC,ContactNo,DOB) values '"
            + getUser()+ "','"
            + getPass()+ "','"
            + getPname()+ "','"
            + getFname()+ "','"
            + getPAge()+ "','"
            + getPGender()+ "','"
            + getPSec()+ "','"
            + getCnic()+ "','"
            + getContactno()+ "','"
            + getDob()+ "'";

        int flag=conn.InsertUpdateDelete(sql);

        if(flag==1){
            JOptionPane.showMessageDialog(null, "You Are Now Successfully
Registered As Passenger");
        }
    }
}

```

```

        else{
            JOptionPane.showMessageDialog(null, "Insertion Failed");
        }
        conn.CloseConnection();
    }
    catch(Exception e){
        JOptionPane.showMessageDialog(null, e);
    }
}

public String getCnic()
{
    return cnic;
}

public String getContactno()
{
    return contactNo;
}

public String getDob()
{
    return dob;
}

public String getUser()
{
    return user;
}

public String getPass()
{
    return pass;
}

public String getPname()
{
    return name;
}

public String getFname()
{
    return fName;
}

public String getPAge()
{
    return age;
}

public String getPGender()
{
    return gender;
}

public String getPSec()
{
    return sec;
}

```

```

}
public String getRPassengerName(String username)
{
    String ass=null;
    try
    {
        DbConnection conn = new DbConnection();
        conn.OpenConnection();
        String sql="Select PName from PassengerI where PID = '"+ username +
""";
        rst= conn.GetData(sql);

        while(rst.next()){
            ass=rst.getString("PName");

        }

        conn.CloseConnection();
    }
    catch(Exception e){
        JOptionPane.showMessageDialog(null, e+"\n
getRPassengerName Error");
    }
    return ass;
}

public ResultSet PassengerRide(String pu)
{
    ResultSet rst1=null;

    try{
        conn.OpenConnection();
        String sql = "Select
Datee,Username,DriverName,DriverContactNo,VehiclePlate,VehicleName,Fromm,Too,S
tartTime,EndTime,RideStatus,BillStatus,Bill from RideRealtime where PUsername
= '"+pu+"'";
        rst1= conn.GetData(sql);
        do{
            return rst1;
        }
        while(rst1.next());
    }
    catch(Exception e){
        JOptionPane.showMessageDialog(null, e+"\nSelect DriverCarBI
Error");
    }
}

```

```

        conn.CloseConnection();
        return null;
    }
    public ResultSet PassengerBusRide(String pu)
    {
        ResultSet rst1=null;

        try{
            conn.OpenConnection();
            String sql = "Select
Username,DriverName,VehiclePlate,VehicleName,Fromm,Toq from PassengerBusRides
where PUsername = '"+pu+"'";
            rst1= conn.GetData(sql);
            do{
                return rst1;
            }
            while(rst1.next());
        }
        catch(Exception e){
            JOptionPane.showMessageDialog(null, e+"\nSelect DriverCarRT
Error");
        }

        conn.CloseConnection();
        return null;
    }
}

```

DRIVER FUNCTION:

```

package vehler;

/**
 *
 * @author user
 */
public interface Driver {

    public abstract boolean ConfirmCurrentRide(String username);
    public abstract boolean verifySecurityQ(String username,String
securityQuestion);
    public abstract void addDriver();
    public abstract boolean chkDriverPass(String id, String pass);
    public abstract String getRDriverName(String username);
    public abstract int assignDriver(String pusername,String pname,String
currentLocation,String finalLocation);
}

```