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SCHOOL OF INFORMATION TECHNOLOGY AND ENGINEERING
AIRLINE RESERVATION

DONE BY

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ABSTRACT

The project is to design an airline reservation system application which enables the customer to search and book flights.

Airline reservation system contains the details about flight schedules, passenger reservations and ticket records. Inventory data is imported and maintained through a schedule distribution system over standardized interfaces. In combination with the fares and booking conditions stored in fare quote system the price for each sold seat is determined.

Airline reservation System is a computerized system used to store and retrieve information and conduct transactions related to air travel. The project is aimed at exposing the relevance and importance of Airline Reservation Systems.

The system allows the airline passenger to search for flights that are available between the two travel cities, namely the “Departure city” and “Arrival city” for a particular departure and arrival dates. The system displays all the flight’s details such as flight no, name, price and duration of journey etc.

After search the system display list of available flights and allows customer to choose a particular flight. Then the system checks for the availability of seats on the flight. If the seats are available then the system allows the passenger to book a seat. Otherwise it asks the user to choose another flight.

INTRODUCTION

The Airline Reservation system is developed to fulfil the client's requirements which are given below .it is used book the tickets with user credentials.

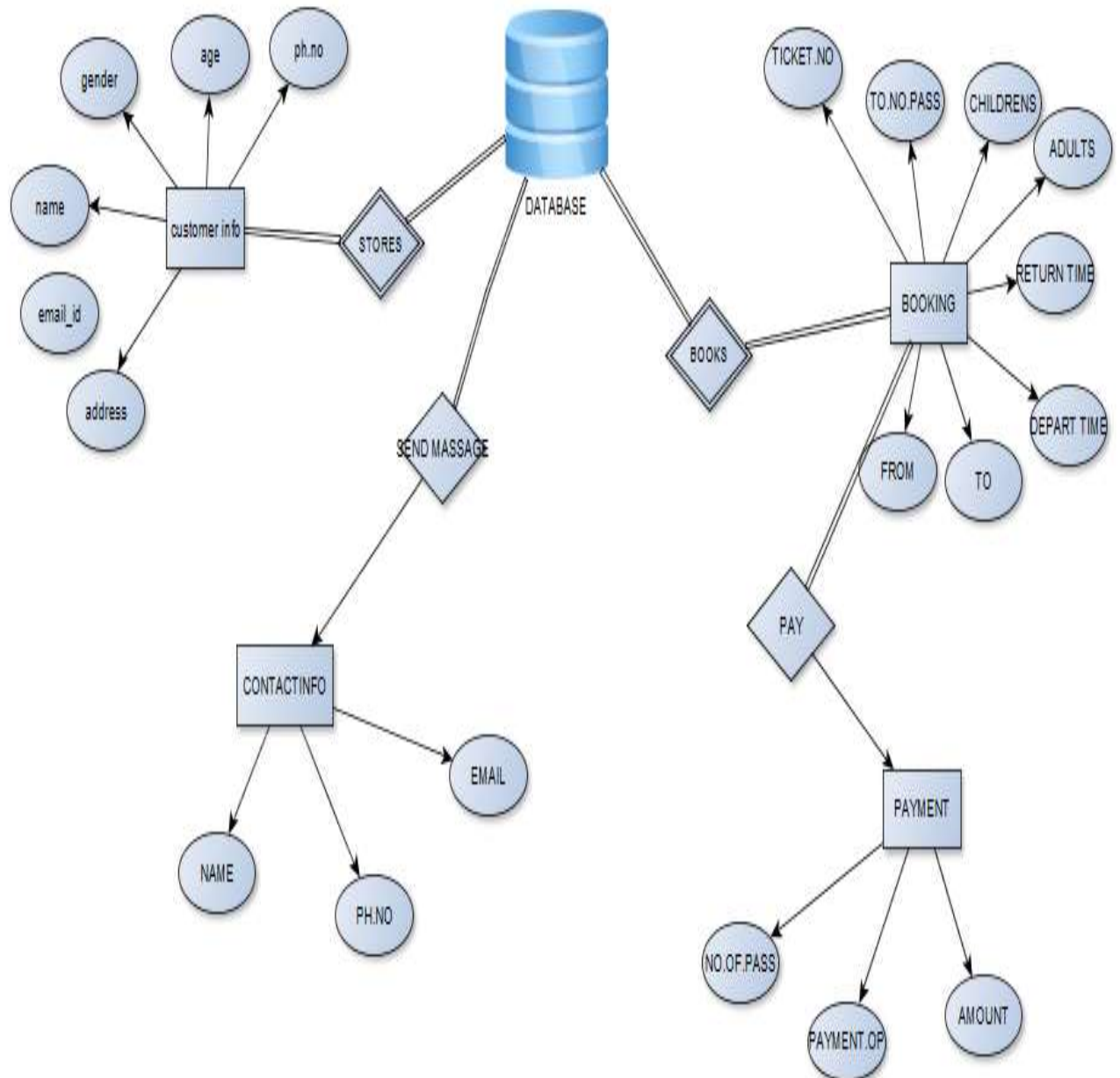
This application must be user-friendly and easy to use. Once the users fill the contact info correctly then it will go the payment.

Customer can check the timings of flights which travel between two places on a specified date and their availability through online at anytime and anywhere, by using this application.

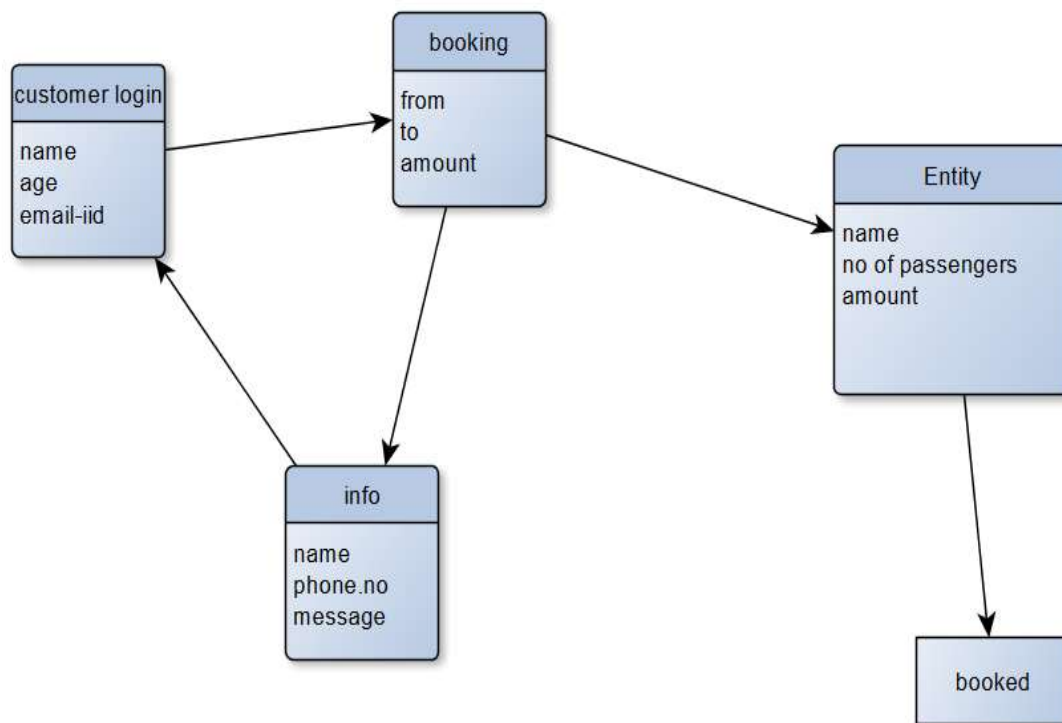
A customer should get a chance of take a trip of continuous travel in which flights are changed frequently by using this web application.

The basic concepts of airline ticket reservation should be maintained by this web application. When a specific flight gets delayed due to technical problems this application should send mobile alerts to the travellers, which helps the travellers in reservation of tickets. once the customers sign up successfully then credentials stored in databases.

ARCHITECTURE DESIGN



DATABASE DESIGN



TABLES

CUSTOMER
Name
Gender
Address
Phone. No
E-mail

CODE

```
package airlinereservation.java;

import java.awt.Color;

Import java.awt.EventQueue;

import java.awt.Font;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.awt.event.KeyAdapter;

import java.awt.event.KeyEvent;


import javax.swing.AbstractAction;

import javax.swing.Action;

import javax.swing.ImageIcon;

import javax.swing.JButton;

import javax.swing.JFrame;

import javax.swing.JLabel;

import javax.swing.JOptionPane;

import javax.swing.JPanel;

import javax.swing.JRadioButton;

import javax.swing.JTextArea;

import javax.swing.JTextField;

import javax.swing.border.EmptyBorder;
```

```
public class customer extends JFrame {

    private JPanel contentPane;

    private JTextField textField;

    private JTextField textField_1;

    private JTextField textField_2;

    private JTextField textField_3;

    private final Action action = new SwingAction();

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            @Override
            public void run() {
                try {
                    customer frame = new customer();
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        })
    }
}
```



```

        });

    }

    /**
     * Create the frame.
     */

    public customer() {

        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        setBounds(100, 100, 434, 514);

        contentPane = new JPanel();

        contentPane.setBackground(Color.RED);

        contentPane.setBorder(new EmptyBorder(3, 5, 3, 5));

        setContentPane(contentPane);

        contentPane.setLayout(null);


        JLabel lblNewLabel = new JLabel("Customer Information");

        lblNewLabel.setIcon(new
ImageIcon(customer.class.getResource("/image/group.png")));

        lblNewLabel.setForeground(Color.BLACK);

        lblNewLabel.setFont(new Font("Comic Sans MS", Font.BOLD,
16));

        lblNewLabel.setBounds(58, 11, 296, 37);

        contentPane.add(lblNewLabel);


        JLabel lblNewLabel_1 = new JLabel("Name:");

```

```
        lblNewLabel_1.setIcon(new
ImageIcon(customer.class.getResource("/image/name.png")));

        lblNewLabel_1.setForeground(new Color(128, 0, 0));

        lblNewLabel_1.setFont(new Font("Times New Roman",
Font.BOLD, 12));

        lblNewLabel_1.setBounds(38, 59, 70, 55);

        contentPane.add(lblNewLabel_1);


        textField = new JTextField();

        textField.addKeyListener(new KeyAdapter() {

            @Override

            public void keyPressed(KeyEvent e) {

                }

        });

        textField.setBounds(116, 72, 125, 39);

        contentPane.add(textField);

        textField.setColumns(10);


        JLabel lblNewLabel_2 = new JLabel("Age:");

        lblNewLabel_2.setIcon(new
ImageIcon(customer.class.getResource("/image/age.png")));

        lblNewLabel_2.setForeground(new Color(128, 0, 0));

        lblNewLabel_2.setFont(new Font("Times New Roman",
Font.BOLD, 12));

        lblNewLabel_2.setBounds(46, 125, 46, 32);

        contentPane.add(lblNewLabel_2);
```

```
textField_1 = new JTextField();  
textField_1.setBounds(126, 122, 103, 35);  
contentPane.add(textField_1);  
textField_1.setColumns(10);
```

```
JLabel lblGender = new JLabel("");  
lblGender.setFont(new Font("Times New Roman", Font.BOLD,  
12));
```

```
lblGender.setIcon(new  
ImageIcon(customer.class.getResource("/image/gender.png")));  
lblGender.setBounds(38, 168, 64, 26);  
contentPane.add(lblGender);
```

```
JRadioButton rdbtnMale = new JRadioButton("Male");  
rdbtnMale.setBackground(Color.YELLOW);  
rdbtnMale.setFont(new Font("Tahoma", Font.BOLD, 8));  
rdbtnMale.setBounds(105, 171, 54, 23);  
contentPane.add(rdbtnMale);
```

```
JRadioButton rdbtnFemale = new JRadioButton("Female");  
rdbtnFemale.setFont(new Font("Times New Roman", Font.BOLD,  
8));  
rdbtnFemale.setBounds(166, 171, 54, 23);  
contentPane.add(rdbtnFemale);
```

```
JLabel lblAddress = new JLabel("Address:");

lblAddress.setIcon(new
ImageIcon(customer.class.getResource("/image/address.png")));

lblAddress.setForeground(new Color(128, 0, 0));

lblAddress.setFont(new Font("Times New Roman", Font.BOLD,
12));

lblAddress.setBounds(36, 224, 72, 55);

contentPane.add(lblAddress);


JTextArea textArea = new JTextArea();

textArea.setBounds(116, 224, 156, 65);

contentPane.add(textArea);


JLabel lblPhoneNo = new JLabel("Phone no:");

lblPhoneNo.setIcon(new
ImageIcon(customer.class.getResource("/image/contact.png")));

lblPhoneNo.setBounds(36, 305, 54, 46);

contentPane.add(lblPhoneNo);


textField_2 = new JTextField();

textField_2.setBounds(116, 318, 125, 20);

contentPane.add(textField_2);

textField_2.setColumns(10);
```

```

JLabel lblEmailId = new JLabel("Email Id:");
lblEmailId.setForeground(new Color(128, 0, 0));
lblEmailId.setFont(new Font("Times New Roman", Font.BOLD,
13));

lblEmailId.setBounds(38, 362, 70, 34);
contentPane.add(lblEmailId);


textField_3 = new JTextField();
textField_3.setBounds(116, 369, 156, 20);
contentPane.add(textField_3);
textField_3.setColumns(10);


JButton btnSubmit =

        new JButton("Submit");

btnSubmit.setAction(action);
btnSubmit.setFont(new Font("Comic Sans MS", Font.BOLD, 11));
btnSubmit.setIcon(new
ImageIcon(customer.class.getResource("/image/oksmall.png")));
btnSubmit.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        JOptionPane.showMessageDialog(null,"proceed for
booking");

        second B=new second();

```

```

        B.setVisible(true);

    }

});

btnSubmit.setBounds(225, 424, 109, 23);

contentPane.add(btnSubmit);


JButton btnCancel = new JButton("Reset");

btnCancel.setIcon(new
ImageIcon(customer.class.getResource("/image/resetsmall.png")));

btnCancel.setFont(new Font("Comic Sans MS", Font.BOLD, 11));

btnCancel.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        JOptionPane.showMessageDialog(null, "details are
resetted");

    }

});

btnCancel.setBounds(94, 424, 89, 23);

contentPane.add(btnCancel);


JLabel lblNewLabel_3 = new JLabel("");

lblNewLabel_3.setIcon(new
ImageIcon(customer.class.getResource("/image/customer.png")));

lblNewLabel_3.setBounds(180, 36, 387, 360);

```

```
        contentPane.add(lblNewLabel_3);
    }

    private class SwingAction extends AbstractAction {

        public SwingAction() {

            putValue(NAME, "SwingAction");

            putValue(SHORT_DESCRIPTION, "Some short
description");

        }

        @Override

        public void actionPerformed(ActionEvent e) {

        }

    }

}
```

```
package airlinereservation.java;
```

```
import java.awt.BorderLayout;
```

```
import java.awt.EventQueue;
```

```
import javax.swing.JFrame;
```

```
import javax.swing.JPanel;
```

```
import javax.swing.border.EmptyBorder;
```

```
import javax.swing.JLabel;
import javax.swing.JOptionPane;

import java.awt.Font;
import javax.swing.JButton;
import javax.swing.JTextField;
import javax.swing.JScrollBar;
import java.awt.Color;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import java.awt.SystemColor;
import javax.swing.ImageIcon;
import javax.swing.SwingConstants;
```

```
public class Booking extends JFrame {
```

```
    private JPanel contentPane;
    private JTextField textField;
    private JTextField textField_1;
    private JTextField textField_2;
    private JTextField textField_3;
    private JTextField textField_4;
    private JTextField textField_5;
    private JTextField textField_6;
```



```
private JTextField textField_7;

/**
 * Launch the application.
 */
public static void main(String[] args) {
    EventQueue.invokeLater(new Runnable() {
        public void run() {
            try {
                Booking frame = new Booking();
                frame.setVisible(true);
            } catch (Exception e) {
                e.printStackTrace();
            }
        }
    });
}

/**
 * Create the frame.
 */
public Booking() {
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setBounds(100, 100, 465, 650);
}
```

```
contentPane = new JPanel();  
contentPane.setBackground(Color.MAGENTA);  
contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));  
setContentPane(contentPane);  
contentPane.setLayout(null);
```

```
JLabel lblAirEmiratesReservation = new JLabel("Airline  
Reservation System");
```

```
lblAirEmiratesReservation.setVerticalAlignment(SwingConstants.TOP);  
  
lblAirEmiratesReservation.setIcon(new  
ImageIcon(Booking.class.getResource("/image/boss.png")));  
  
lblAirEmiratesReservation.setForeground(Color.BLACK);  
  
lblAirEmiratesReservation.setFont(new Font("Comic Sans MS",  
Font.BOLD, 16));  
  
lblAirEmiratesReservation.setBounds(-26, -27, 488, 83);  
contentPane.add(lblAirEmiratesReservation);
```

```
JButton btnRoundTrip = new JButton("Round Trip");  
  
btnRoundTrip.setFont(new Font("Times New Roman",  
Font.BOLD, 11));  
  
btnRoundTrip.setIcon(new  
ImageIcon(Booking.class.getResource("/image/left.png")));  
  
btnRoundTrip.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent e) {  
        JOptionPane.showMessageDialog(null, "thanks for  
Round trip!!!!.....");
```

```

        RoundTrip r=new RoundTrip();
        r.setVisible(true);
    }

});

btnRoundTrip.setBounds(62, 84, 130, 43);
contentPane.add(btnRoundTrip);

JButton btnOneWayTrip = new JButton("One way Trip");
btnOneWayTrip.setFont(new Font("Times New Roman",
Font.BOLD, 11));

btnOneWayTrip.setIcon(new
ImageIcon(Booking.class.getResource("/image/right.png")));

btnOneWayTrip.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        JOptionPane.showMessageDialog(null,"Welcome to
one way trip....!!!!!!!!!!!!!!");

        round a=new round();
        a.setVisible(true);
    }
});

btnOneWayTrip.setBounds(202, 84, 141, 43);
contentPane.add(btnOneWayTrip);

JLabel lblFlyingFrom = new JLabel("Flying From:");
lblFlyingFrom.setForeground(new Color(128, 0, 0));

```

```
lblFlyingFrom.setFont(new Font("Times New Roman",  
Font.BOLD, 12));
```

```
lblFlyingFrom.setBounds(27, 149, 75, 14);
```

```
contentPane.add(lblFlyingFrom);
```

```
textField = new JTextField();
```

```
textField.setBounds(66, 170, 127, 20);
```

```
contentPane.add(textField);
```

```
textField.setColumns(10);
```

```
JLabel lblFlyingTo = new JLabel("Flying To:");
```

```
lblFlyingTo.setForeground(new Color(128, 0, 0));
```

```
lblFlyingTo.setFont(new Font("Times New Roman", Font.BOLD,  
12));
```

```
lblFlyingTo.setBounds(27, 224, 75, 14);
```

```
contentPane.add(lblFlyingTo);
```

```
textField_1 = new JTextField();
```

```
textField_1.setBounds(66, 249, 127, 20);
```

```
contentPane.add(textField_1);
```

```
textField_1.setColumns(10);
```

```
JLabel lblDepating = new JLabel("Departing Time:");
```

```
lblDepating.setForeground(new Color(128, 0, 0));
```

```
12));
```

```
lblDepating.setFont(new Font("Times New Roman", Font.BOLD,
```

```
12));
```

```
lblDepating.setBounds(27, 319, 89, 14);
```

```
contentPane.add(lblDepating);
```

```
textField_2 = new JTextField();
```

```
textField_2.setBounds(57, 346, 86, 20);
```

```
contentPane.add(textField_2);
```

```
textField_2.setColumns(10);
```

```
JLabel lblReturning = new JLabel("Returning Time");
```

```
lblReturning.setForeground(new Color(128, 0, 0));
```

```
12));
```

```
lblReturning.setFont(new Font("Times New Roman", Font.BOLD,
```

```
12));
```

```
lblReturning.setBounds(178, 319, 95, 14);
```

```
contentPane.add(lblReturning);
```

```
textField_3 = new JTextField();
```

```
textField_3.setBounds(217, 346, 86, 20);
```

```
contentPane.add(textField_3);
```

```
textField_3.setColumns(10);
```

```
JLabel lblAdults = new JLabel("Adults");
```

```
12));
```

```
lblAdults.setFont(new Font("Times New Roman", Font.BOLD,
```

```
lblAdults.setForeground(new Color(128, 0, 0));
```

```
lblAdults.setBounds(39, 398, 46, 14);
```

```
contentPane.add(lblAdults);
```

```
JLabel lblChildren = new JLabel("Children");
```

```
lblChildren.setForeground(new Color(128, 0, 0));
```

```
lblChildren.setFont(new Font("Times New Roman", Font.BOLD,  
12));
```

```
lblChildren.setBounds(178, 398, 64, 14);
```

```
contentPane.add(lblChildren);
```

```
textField_4 = new JTextField();
```

```
textField_4.setBounds(66, 425, 75, 20);
```

```
contentPane.add(textField_4);
```

```
textField_4.setColumns(10);
```

```
textField_5 = new JTextField();
```

```
textField_5.setBounds(208, 423, 64, 20);
```

```
contentPane.add(textField_5);
```

```
textField_5.setColumns(10);
```

```
JButton btnBook = new JButton("Book");
```

```
btnBook.setIcon(new  
ImageIcon(Booking.class.getResource("/image/login.png")));
```

```
btnBook.setFont(new Font("Comic Sans MS", Font.BOLD, 14));
```

```

        btnBook.setForeground(new Color(47, 79, 79));
        btnBook.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                JOptionPane.showMessageDialog(null,"thanks for
login enter for customer details");
                payment p=new payment();
                p.setVisible(true);
            }
        });
        btnBook.setBounds(153, 549, 150, 51);
        contentPane.add(btnBook);

        JLabel lblTotal = new JLabel("Total Passengers");
        lblTotal.setForeground(new Color(128, 0, 0));
        lblTotal.setFont(new Font("Times New Roman", Font.BOLD,
12));
        lblTotal.setBounds(268, 398, 105, 14);
        contentPane.add(lblTotal);

        textField_6 = new JTextField();
        textField_6.setBounds(327, 425, 46, 20);
        contentPane.add(textField_6);
        textField_6.setColumns(10);

        JLabel lblTicketNo = new JLabel("Ticket no:");

```

```
lblTicketNo.setForeground(new Color(128, 0, 0));  
lblTicketNo.setFont(new Font("Times New Roman", Font.BOLD,  
12));  
  
lblTicketNo.setBounds(39, 467, 63, 14);  
contentPane.add(lblTicketNo);  
  
textField_7 = new JTextField();  
textField_7.setBounds(128, 464, 194, 20);  
contentPane.add(textField_7);  
textField_7.setColumns(10);  
  
JLabel label = new JLabel("");  
label.setIcon(new  
ImageIcon(Booking.class.getResource("/image/aro.jpg")));  
label.setBounds(-134, -60, 593, 547);  
contentPane.add(label);  
  
JLabel lblNewLabel = new JLabel("New label");  
lblNewLabel.setIcon(new  
ImageIcon(Booking.class.getResource("/image/aero1.gif")));  
lblNewLabel.setBounds(112, 423, 167, 137);  
contentPane.add(lblNewLabel);  
  
JLabel lblNewLabel_1 = new JLabel("New label");  
lblNewLabel_1.setBounds(309, 265, 46, 14);
```



```
        contentPane.add(lblNewLabel_1);

        JLabel lblNewLabel_2 = new JLabel("New label");
        lblNewLabel_2.setIcon(new
ImageIcon(Booking.class.getResource("/image/aero1.gif")));
        lblNewLabel_2.setBounds(272, 425, 167, 146);
        contentPane.add(lblNewLabel_2);

        JLabel lblNewLabel_3 = new JLabel("New label");
        lblNewLabel_3.setIcon(new
ImageIcon(Booking.class.getResource("/image/mouse.png")));
        lblNewLabel_3.setBounds(1, 423, 142, 177);
        contentPane.add(lblNewLabel_3);
    }
}

import java.awt.Color;
import java.awt.EventQueue;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;

import javax.swing.JButton;
```

```
import javax.swing.JFrame;

import javax.swing.JLabel;

import javax.swing.JOptionPane;

import javax.swing.JPasswordField;

import javax.swing.JTextField;


public class Login {


    private JFrame frame;


    /**
     * Launch the application.
     */

    public static void main(String[] args) {

        EventQueue.invokeLater(new Runnable() {

            @Override

            public void run() {

                try {

                    Login window = new Login();

                    window.frame.setVisible(true);

                } catch (Exception e) {

                    e.printStackTrace();

                }

            }

        })

    }

}
```

```

        });

    }

    Connection connection=null;

    private JTextField textFieldUN;

    private JPasswordField passwordField;

    /**
     * Create the application.
     */

    public Login()
    {

        initialize();

        Object sqliteConnection;

        connection=sqliteConnection.dbConnector();

    }


    /**
     * Initialize the contents of the frame.
     */

    private void initialize() {

        frame = new JFrame();

        frame.getContentPane().setBackground(Color.BLUE);

        frame.setBounds(100, 100, 1200, 700);

        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        frame.getContentPane().setLayout(null);

```

```
JLabel lblUsername = new JLabel("USERNAME");
lblUsername.setFont(new Font("Times New Roman", Font.BOLD,
17));

lblUsername.setBounds(318, 177, 127, 29);
frame.getContentPane().add(lblUsername);


JLabel lblPassword = new JLabel("PASSWORD");
lblPassword.setFont(new Font("Times New Roman", Font.BOLD,
17));

lblPassword.setBounds(318, 248, 105, 20);
frame.getContentPane().add(lblPassword);


textFieldUN = new JTextField();
textFieldUN.setBounds(469, 181, 116, 22);
frame.getContentPane().add(textFieldUN);
textFieldUN.setColumns(10);


JButton btnLogin = new JButton("Login");
btnLogin.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent arg0)
    {
        try{
```

```
String query="select * from loginpage where  
Username=? and Password=? ";
```

```
PreparedStatement  
pst=connection.prepareStatement(query);
```

```
pst.setString(1,textFieldUN.getText() );
```

```
pst.setString(2,passwordField.getText() );
```

```
ResultSet rs=pst.executeQuery();
```

```
int count=0;
```

```
while(rs.next())
```

```
{
```

```
    count=count+1;
```

```
}
```

```
if(count ==1)
```

```
{
```

```
JOptionPane.showMessageDialog(null,"Username and password are  
correct");
```

```
Dashboard db=new Dashboard();
```

```
db.setVisible(true);
```

```
}
```

```
else if(count>1)
```

```
{
```

```
JOptionPane.showMessageDialog(null,"Duplicate username and  
password");
```

```
}
```

```
else
```

```
{
```

```
    JOptionPane.showMessageDialog(null, "Username and password are  
incorrect..Try again");
```

```
}
```

```
rs.close();
```

```
pst.close();
```

```
    }catch(Exception e)
```

```
{
```

```
        JOptionPane.showMessageDialog(null, e);
```

```
}
```

```
}
```

```
});
```

```
btnLogin.setBounds(420, 359, 97, 25);
```

```
frame.getContentPane().add(btnLogin);
```

```

passwordField = new JPasswordField();

passwordField.setBounds(469, 248, 116, 22);

frame.getContentPane().add(passwordField);

    }

}

```

```

import java.sql.Connection;
import java.sql.DriverManager;

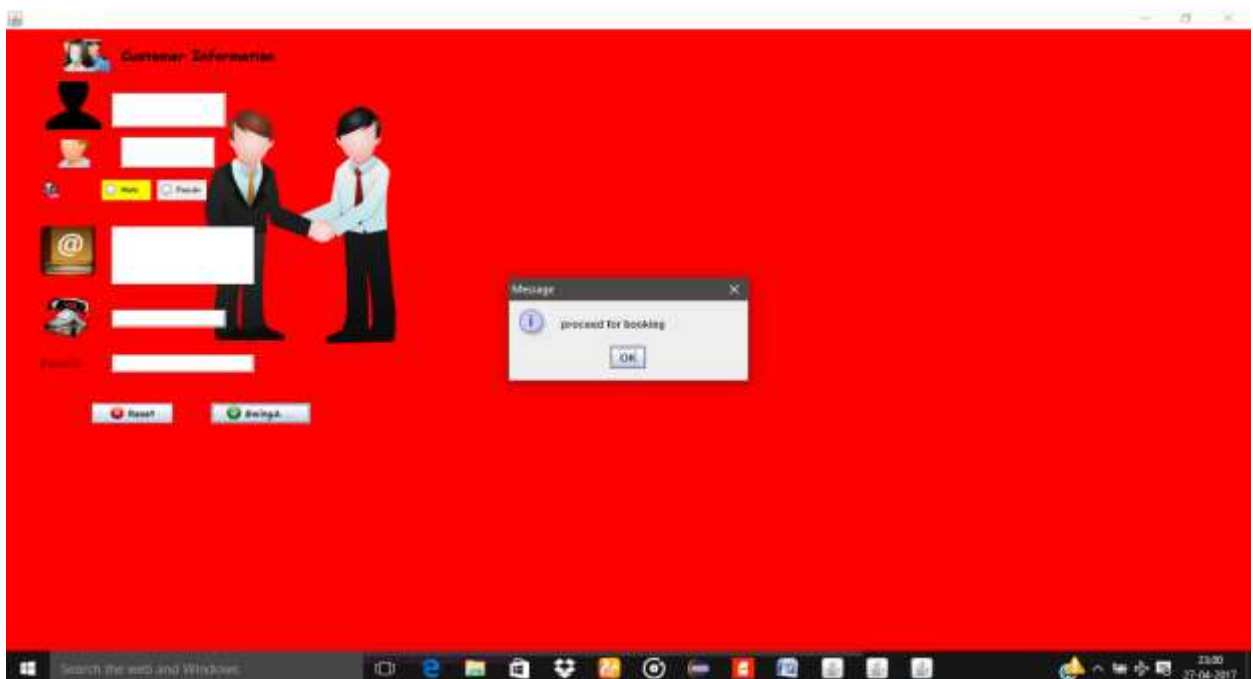
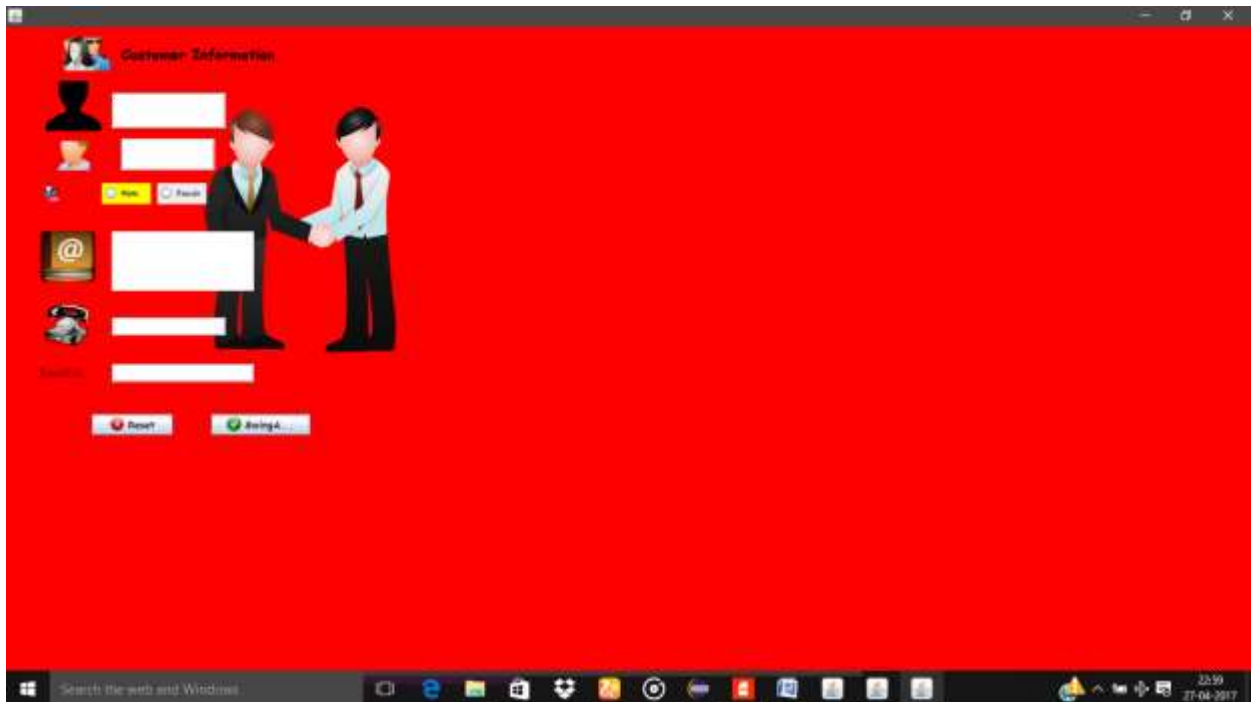
import javax.swing.JOptionPane;
public class sqliteConnection {
    Connection conn=null;
    public static Connection dbConnector()
    {
        try{
            Class.forName("org.sqlite.JDBC");
            Connection
conn=DriverManager.getConnection("jdbc:sqlite:C:\\Program
Files\\eclipse\\banking.sqlite");
            JOptionPane.showMessageDialog(null,"Connection
successful");
            return conn;
        }catch(Exception e)
        {
            JOptionPane.showMessageDialog(null, e);
            return null;
        }
    }

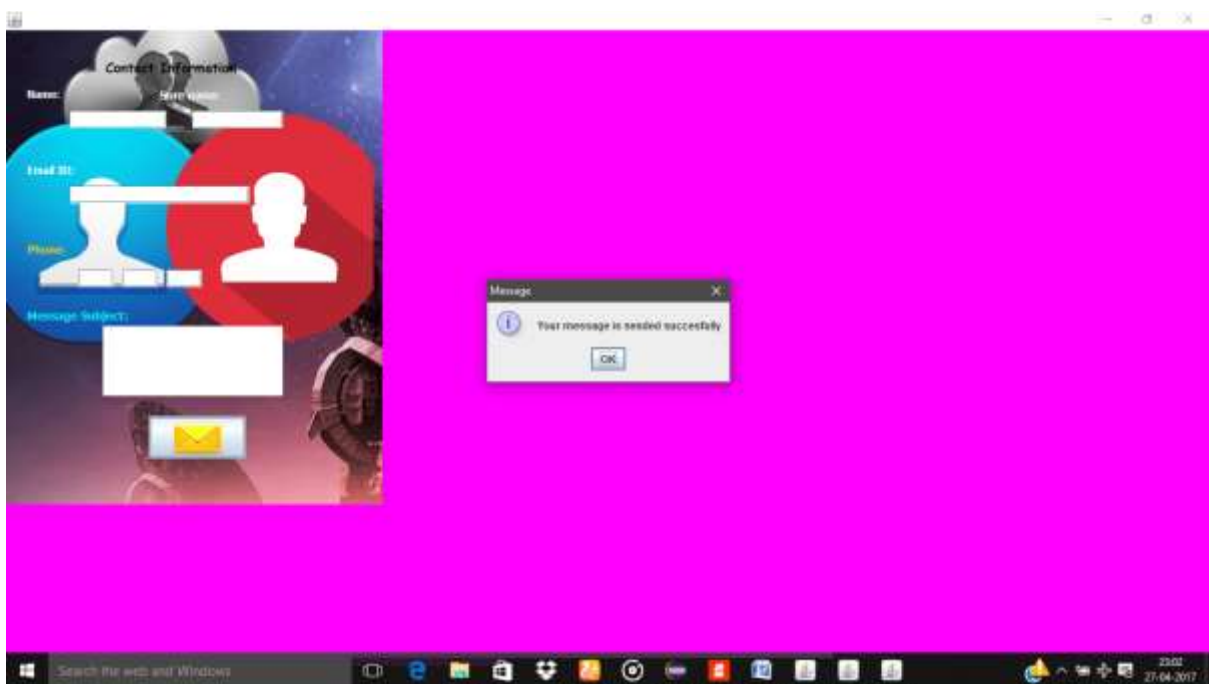
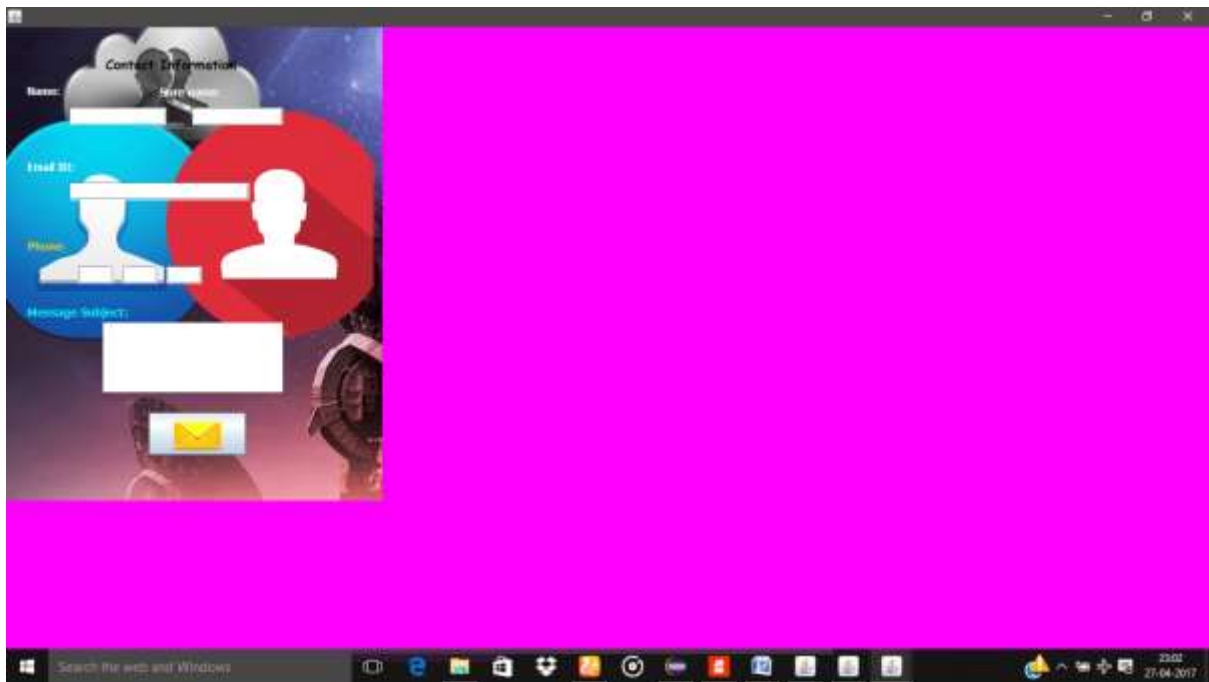
}

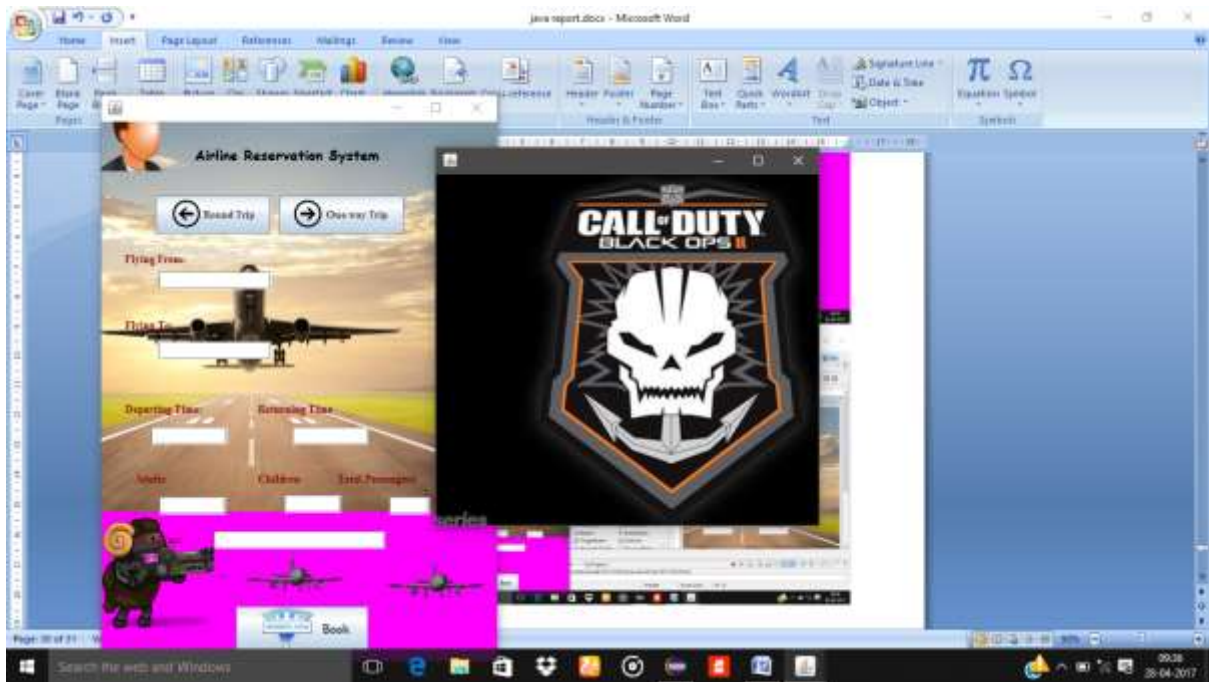
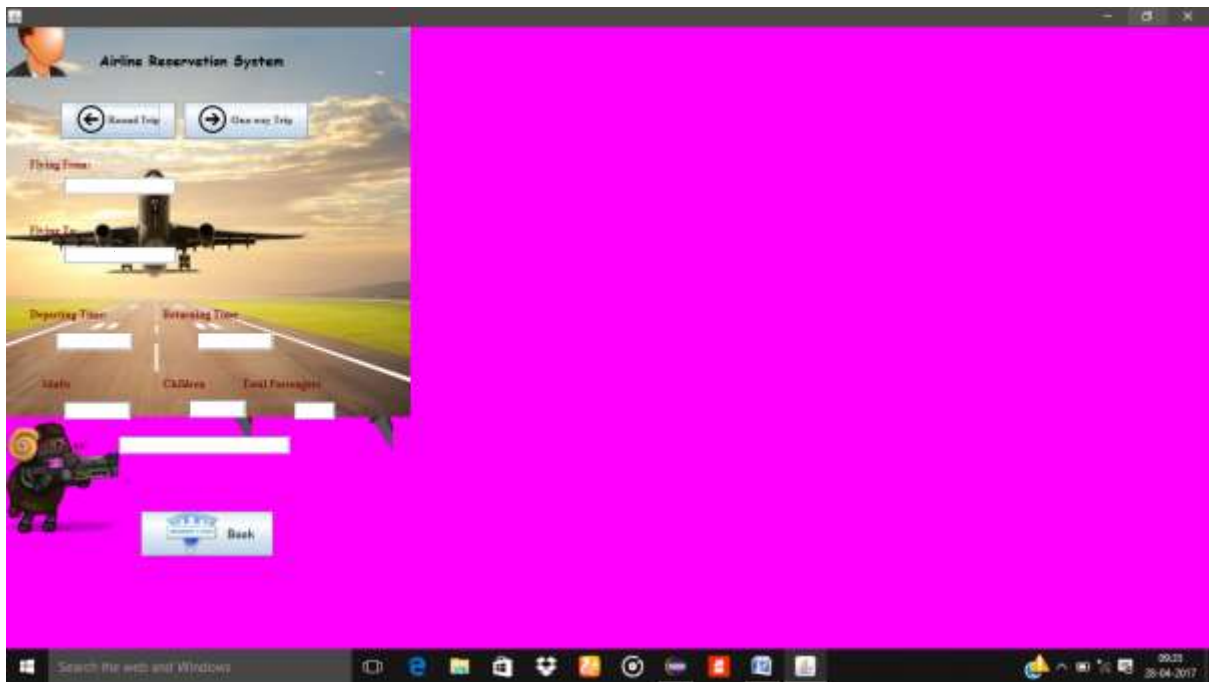
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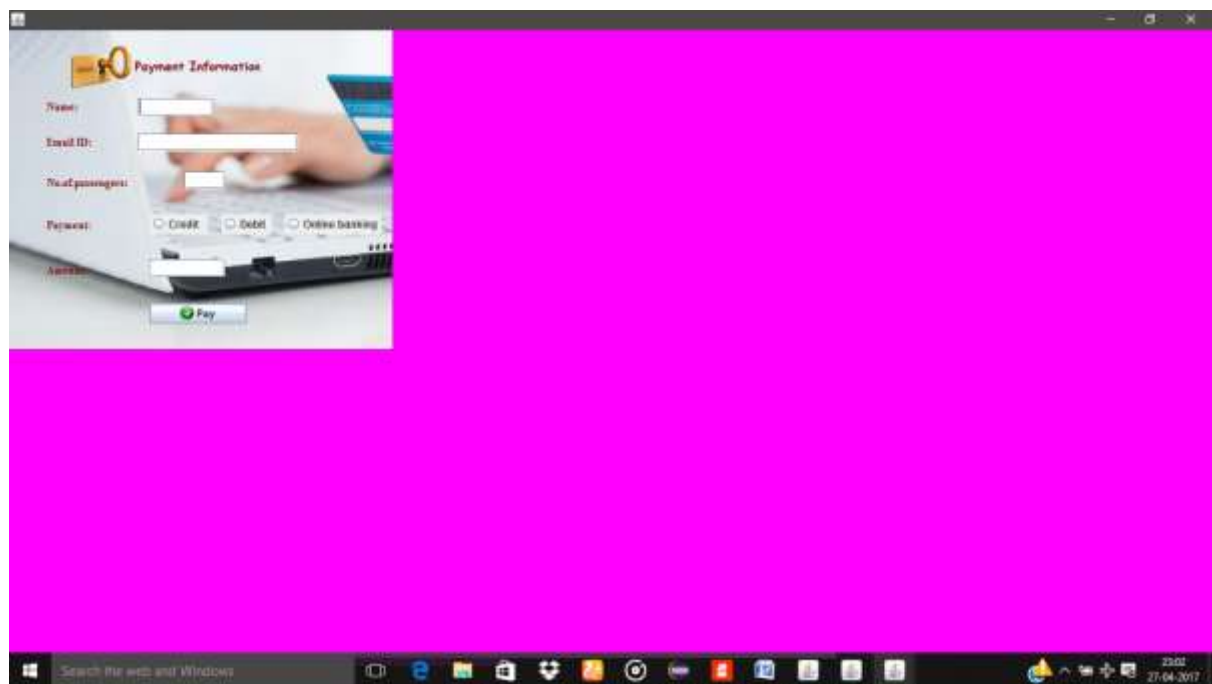
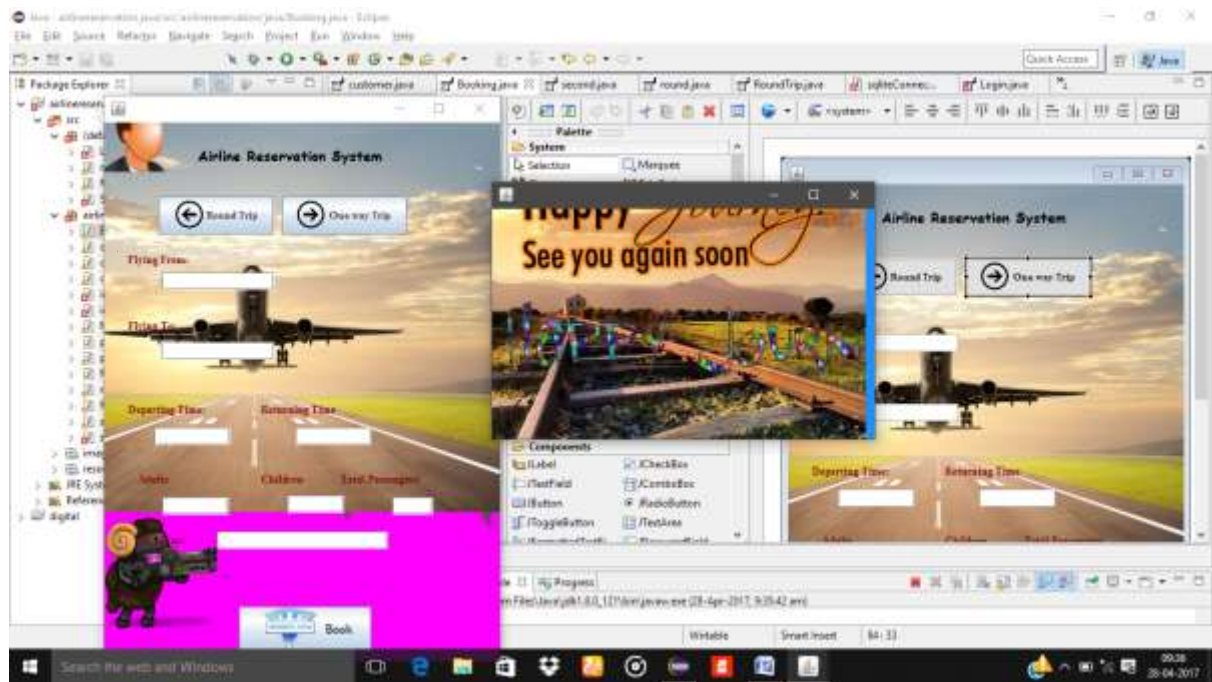
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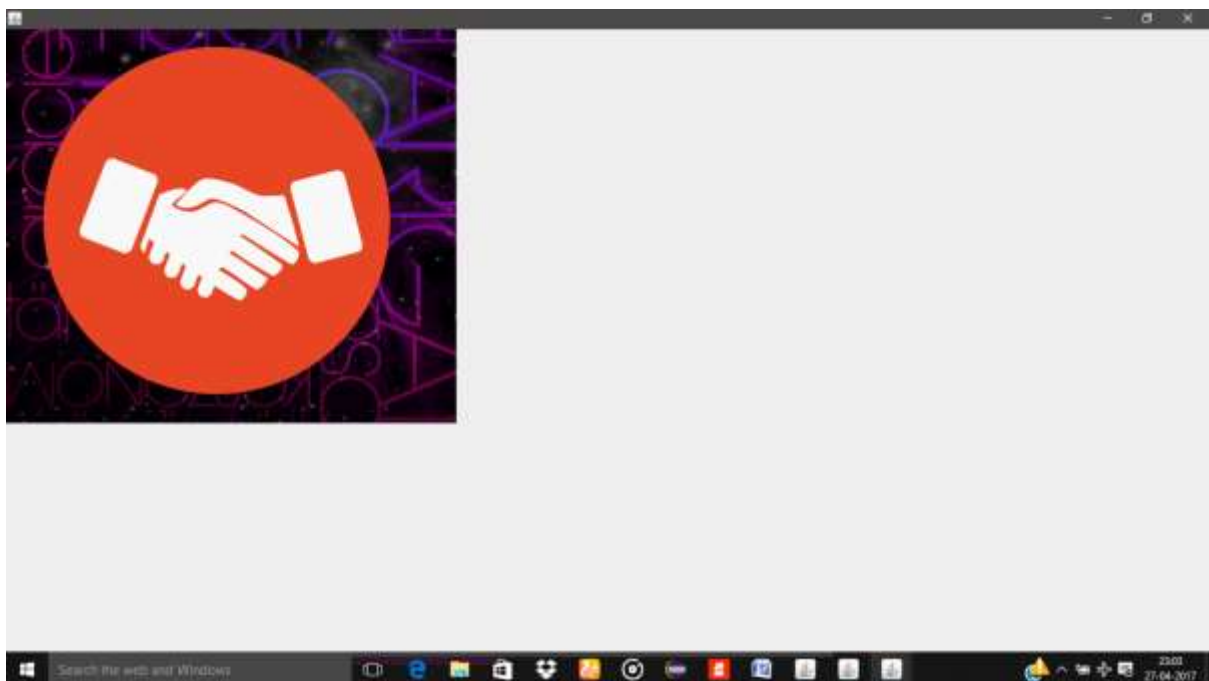
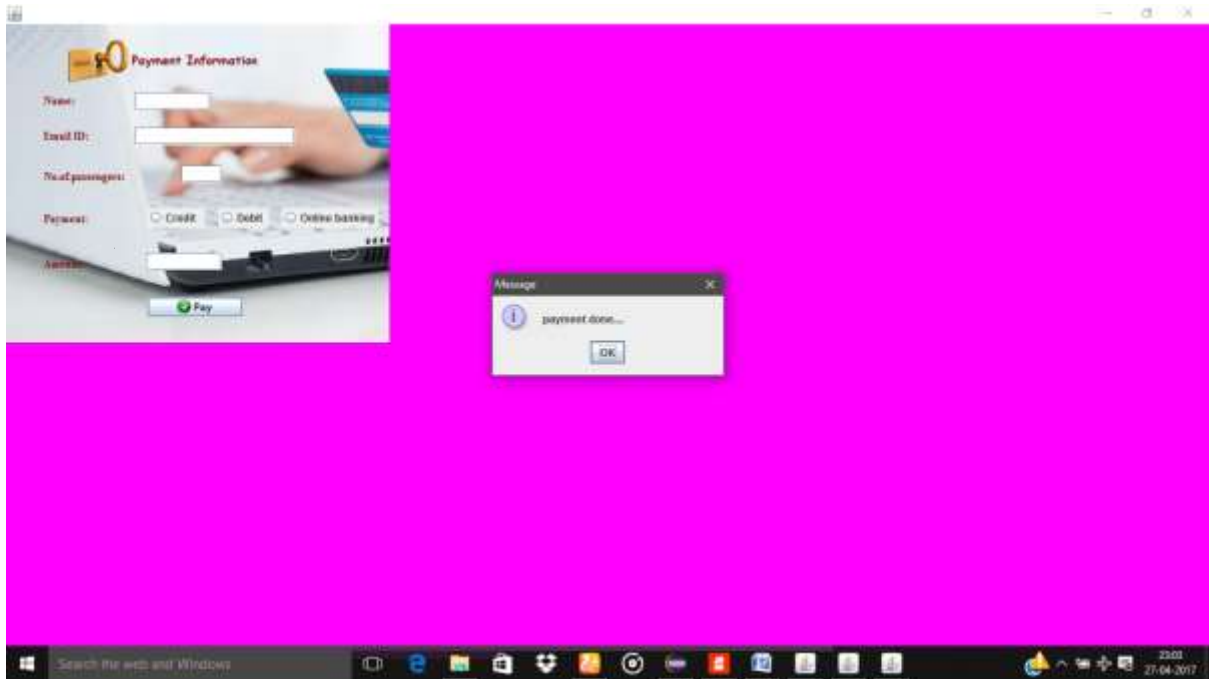
SCREEN SHOTS

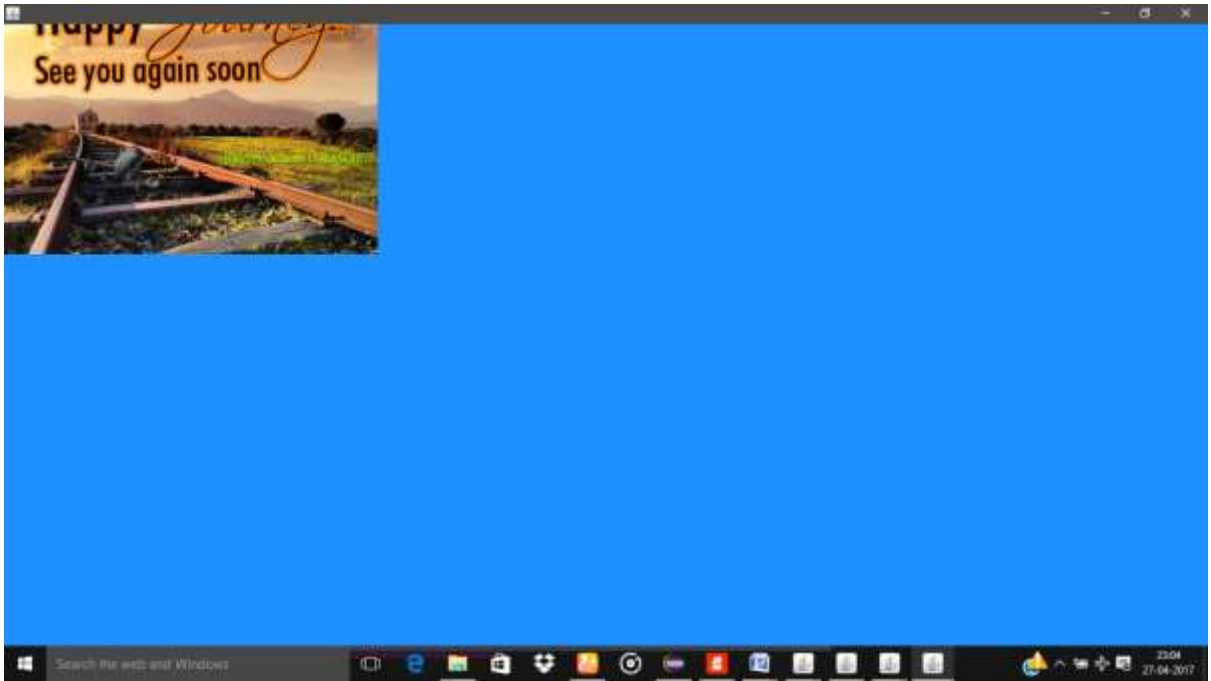












CONCLUSION

After the all details entered by the customer like name, age , gender etc. it will go to the databases stores the details and retrieve from any time . Then the system checks for the availability of seats on the flight. If the seats are available then the system allows the passenger to book a seat. Otherwise it asks the user to choose another flight. When booking is over it leads customer to pay for the amount for number of tickets they bought .finally they receive the successful message for booking and the payments.