PROJECT REPORT

ON

AIRLINE MANAGEMENT SYSTEM

SUBMITTED BY

NAME   : **RAGHAV**

ROLL NO. :

CLASS   : XII

SESSION   : 2018-2019

SUBJECT   : INFORMATICS PRACTICES

SCHOOL   : HINDU SENIOR SECONDARY SCHOOL

CERTIFICATE

This is to certify that RAGHAV, a student of class XII has successfully completed his project 'AIRLINE MANAGEMENT SYSTEM'

under the guidance of MR. ASHISH GOEL (Subject Teacher)

during the academic year 2018-2019.

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MR. ASHISH GOEL

ACKNOWLEDGEMENT

It would be my pleasure to express my sincere thanks to My Informatics Practices Teacher MR.ASHISH GOEL whose valuable Guidance has been the ones that help me to complete my project on 'AIRLINE MANAGEMENT SYSTEM'. His suggestions and instructions has served as major contributor towards the completion of the project.

RAGHAV
CLASS - XII

INTRODUCTION

Softwares have always created a platform to make work easier and more accurate.

The project here in under referred to as "Airline Management system", is a core java project, is not an exception With working employees travelling 24 by 7. This software speed up the reservation process and makes it convenient for the customers to book flights.

It reduces the scope of manual error and conveniently maintains any modifications, cancellations in the reservations. It not only provides flight information but also creates a platform to reservation, cancels and modification of the ticket and even informs about the number of Passengers   on board to a particular flight.

Primary Objective:

The functional requirements consist of the bulk of the project explaining the various functions and working of the software. It also has taken into consideration the functional and non-functional requirements and also the possible future requirements.

When a user makes a reservation or a cancellation, it is identified as "reserve in file "or "cancel in file." This information is accepted and the details are stored in the passenger database.

Conclusion:
The "Airline Management System" is a another project as an attempt to stimulate the basic concepts of airline reservation system. The system follows a simple process which allows the passenger to check availability of flights by entering the two travel cities, namely the "From City" and "To City". Once this is

done if the seats are available the system asks the customer to enter his personal details such as Name, Address, City, DOB ,Mobile Number etc. After validation of payment information, it book the flight ticket and update the airline database and user database.
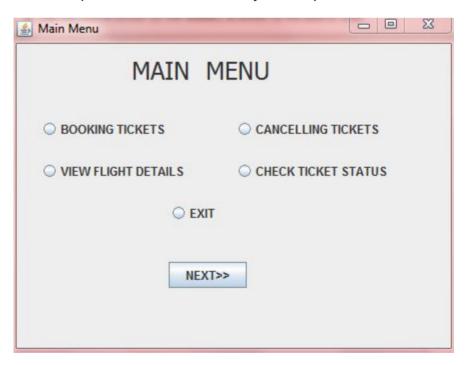
First   user   will be required to login.


```
    private void loginbtnActionPerformed(java.awt.event.ActionEvent evt) {
String ID = txt.getText();
 String pwd = new String(txtpwd.getPassword());
   String str = null;
   Statement stmt = null;
   ResultSet rs = null;
   Connection conn = null;
    try{
        Class.forName("com.mysql.jdbc.Driver");
    conn =   DriverManager.getConnection("jdbc:mysql:// localhost:3306     /airbase","root","123456");
        stmt = conn.createStatement();
        String sql = "Select * From login where ID = ' "+ID+"' ; ";
        rs = stmt.executeQuery(sql);
        rs.next();
        str = rs.getString("Password");
        rs.close();
        stmt.close();
        conn.close();
       if(str.equals(pwd)){
```

```
                    new Menu().setVisible(true);

                    this.setVisible(false);

                }

                else {

    JOptionPane.showMessageDialog(rootPane,"Incorrect ID or Password");

                    txt.setText("");

                    txtpwd.setText("");

                    txt.grabFocus();

                }

        }

            catch (Exception e){ JOptionPane.showMessageDialog(rootPane, "Incorrect Password or ID or
Error In Connection");

        }
```

- NOW A NEW MAIN MENU WILL OPEN IN FRONT OF USER IF USER ID AND PASSWORD MATCHES TO STORED VALUES IN AIRBASE DATABASE IN MY SQL.
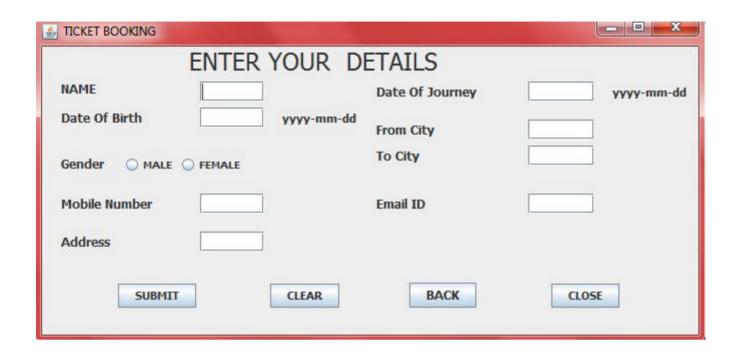
Customer will be required to choose only one option from available choices.


```
private void nextbtnActionPerformed(java.awt.event.ActionEvent evt) {

    if(optb.isSelected()){

    JOptionPane.showMessageDialog(rootPane,"Welcome To Flight Booking Section");

    new Booking().setVisible(true);
```

```java
        this.setVisible(false);

    }

    else if(optc.isSelected()){

        JOptionPane.showMessageDialog(rootPane,"We are procedding you to ticket Cancel Section");

        new Cancel().setVisible(true);

        this.setVisible(false);

    }

    else if(optF.isSelected()){

         JOptionPane.showMessageDialog(rootPane,"We are proceeding you to view flight details");

        new  viewflight().setVisible(true);

        this.setVisible(false);

    }

     else if(optT.isSelected()){

         JOptionPane.showMessageDialog(rootPane,"We are proceeding you to view Ticket details");

        new  viewticket1().setVisible(true);

this.setVisible(false);

     }

    else  if(opte.isSelected()){

        JOptionPane.showMessageDialog(rootPane,"Thank You For Visiting us");

        System.exit(0);

    }
```
* IF USER CHOOSE BOOKING TICKETS OPTION THEN BOOKING TICKET SECTION WILL APPEAR IN FRONT OF USER.

Customer will book ticket from here and pay money by visiting link sent to him/her to the provided Email Id .

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

    String Name = txtN.getText();

    String DOB = txtD.getText();

String Gender = null;

if(optM.isSelected()) Gender = "Male";

else Gender = "Female";

    String Mobile = txtM.getText();

    String Address = txtA.getText();

    String Journey = txtJ.getText();

    String Fcity = txtF.getText();

    String Tcity = txtT.getText();

    String Email = txtE.getText();

    Statement stmt = null;

    Connection conn = null;

    try{

        Class.forName("com.mysql.jdbc.Driver");

        conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/airbase","root","123456");

```java
        stmt = conn.createStatement();

     String sql ="Insert into book values (
'"+Name+"','"+DOB+"','"+Gender+"','"+Mobile+"','"+Address+"','"+Journey+"','"+Email+"','"+Fcity+"','"+Tcity+"') ";

        stmt.executeUpdate(sql);

        stmt.close();

        conn.close();

        JOptionPane.showMessageDialog(rootPane,"Ticket Booking is Successful");

        JOptionPane.showMessageDialog(rootPane, "You are request to Pay ticket charges . Payment
Information and other Details are Emailed to your Email ID.");

        new Menu().setVisible(true);

        this.setVisible(false);

    }

    catch (Exception e ){

        JOptionPane.showMessageDialog(rootPane, "Incorrect Records Or Error In Connection");

         txtN.setText("");

         txtD.setText("");

         txtM.setText("");

         txtA.setText("");

         txtJ.setText("");

          txtE.setText("");

         btg.clearSelection();

    }
private void clearbtnActionPerformed(java.awt.event.ActionEvent evt) {

    txtN.setText("");

    txtD.setText("");

    txtM.setText("");

    txtA.setText("");

    txtJ.setText("");

    txtE.setText("");

    btg.clearSelection();

  }
```

```java
private void backbtnActionPerformed(java.awt.event.ActionEvent evt) {

    new Menu().setVisible(true);

    this.setVisible(false);

}
private void cancelbtnActionPerformed(java.awt.event.ActionEvent evt) {

    JOptionPane.showMessageDialog(rootPane, "Thanks for visiting us");

    System.exit(0);

  }
```

*IF CANCEL TICKETS OPTION   IS CHOOSED THEN CANCEL TICKET SECTION WILL APPEAR IN FRONT OF USER AND RECORDS AND SAVED TO TABLE NAMED 'CANCEL' IN MY SQL.

User will be required to enter his/her ticket booking details to cancel his/her tickets.
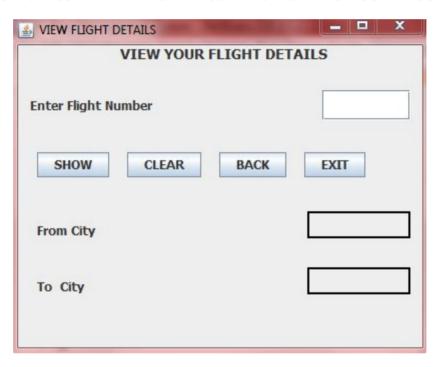


```java
private void submitbtnActionPerformed(java.awt.event.ActionEvent evt) {

    String Name = txtN.getText();

    String DOB = txtD.getText();

    String Journey = txtJ.getText();

    String Mobile = txtM.getText();

    String Email = txtE.getText();

     Statement stmt = null;

    Connection conn = null;
```

```java
    try{
        Class.forName("com.mysql.jdbc.Driver");
        conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/airbase","root","123456");
        stmt = conn.createStatement();
        String sql ="Insert into cancel values ( '"+Name+"','"+DOB+"','"+Mobile+"','"+Journey+"','"+Email+"') ";
        stmt.executeUpdate(sql);
        stmt.close();
        conn.close();
        JOptionPane.showMessageDialog(rootPane,"Ticket Cancellation Is Successfull");
        JOptionPane.showMessageDialog(rootPane, "Your Money will be refunded within 24 hours. Other Details are Emailed to your Email ID.");
        new Menu().setVisible(true);
        this.setVisible(false);


    }   catch (Exception e ){
        JOptionPane.showMessageDialog(rootPane, "Incorrect Records Or Error In Connection");
        txtN.setText("");
        txtD.setText("");
        txtM.setText("");
        txtJ.setText("");
        txtE.setText("");
        txtN.grabFocus();
    }
  }
private void clearbtnActionPerformed(java.awt.event.ActionEvent evt) {
        txtN.setText("");
    txtD.setText("");
    txtM.setText("");
    txtJ.setText("");
    txtE.setText("");
    txtN.grabFocus();
```

```
        }
private void backbtnActionPerformed(java.awt.event.ActionEvent evt) {

        new Menu().setVisible(true);

      this.setVisible(false);

   }

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

        JOptionPane.showMessageDialog(rootPane, "Thanks for visiting us");

      System.exit(0);

   }
```

*IF VIEW FLIGHT DETAILS OPTION IS SELECTED ,THEN VIEW FLIGHT DETAILS SECTION WILL APPEAR IN FRONT OF USER . USER WILL BE REQUIRED TO ENTER FLIGHT NUMBER AND THEN BY CLICKING ON BUTTON USER WILL KNOW ABOUT FROM CITY TO TOCITY LOCATION OF FLIGHT .


```
 private void showbtnActionPerformed(java.awt.event.ActionEvent evt) {

      String FlightNO = txt.getText();

      String From =null;

      String To=null;

      Statement stmt = null;

     ResultSet rs = null;

   Connection conn = null;

 try{

        Class.forName("com.mysql.jdbc.Driver");
```
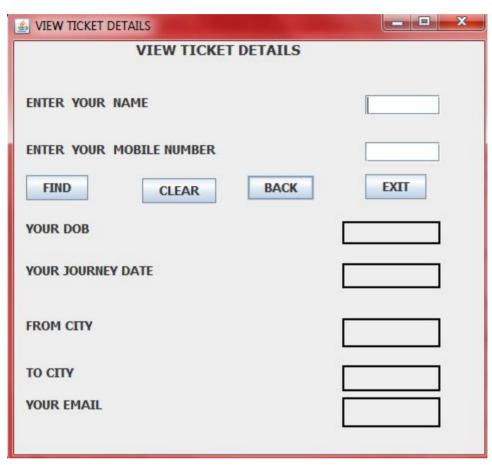
```java
        conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/airbase","root","123456");

        stmt = conn.createStatement();

        String sql = "Select * From flight where FlightNO = '"+FlightNO+"' ; ";

        rs = stmt.executeQuery(sql);

        rs.next();

        From = rs.getString("FCity");

        To = rs.getString("TCity");

        rs.close();

        stmt.close();

        conn.close();

        lblF.setText(From);

        lblT.setText(To);
}

        catch (Exception e){JOptionPane.showMessageDialog(rootPane, "Incorrect Flight Number OR Error In
Connection");

        }
    }
    private void exitbtnActionPerformed(java.awt.event.ActionEvent evt) {

        System.exit(0);
}

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

        JOptionPane.showMessageDialog(rootPane,"Thank you for reaching us");

        new Menu().setVisible(true);

        this.setVisible(false);

    }
    private void clearbtnActionPerformed(java.awt.event.ActionEvent evt) {

        txt.setText("");

        lblF.setText("");

        lblT.setText("");

        txt.grabFocus();

    }
```

* IF USER CLICKS CHECK TICKET STATUS AND WILL BE REQUIRED TO ENTER NAME AND MOBILE NUMBER .

APPLICATION SEARCHES THESE TWO FIELDS IN THE 'BOOK' TABLE IN MYSQL. IF RECORD WITH THE ENTERED DETILS IS PRESENT THEN IT WILL RETURN ALL DETAILS OF THE USER WHEN CLICKED ON BUTTON AND A CONFIRMATION MESSAGE TO THE USER ABOUT CONFIRMED TICKET . IF RECORD IS NOT PRESENT ,THEN IT WILL RETURN AN ERROR .


```
private void findbtnActionPerformed(java.awt.event.ActionEvent evt) {

    String Name = txtN.getText();

    String Mobile = txtM.getText();

    Statement stmt = null;

ResultSet rs = null;

Connection conn = null;

 try{

    Class.forName("com.mysql.jdbc.Driver");

    conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/airbase","root","123456");

    stmt = conn.createStatement();
```

```java
        String sql = "Select * From book where Name = '"+Name+"' and Mobile = '"+Mobile+"' ; ";

        rs = stmt.executeQuery(sql);

        rs.next();

        String DOB = rs.getString("DOB");

        String Journey = rs.getString("Journey");

        String From = rs.getString("Fcity");

        String Tocity = rs.getString("TCity");

        String Email = rs.getString("Email");

        rs.close();

        stmt.close();

        conn.close();

        lblDOB.setText(DOB);

        lblJ.setText(Journey);

        lblF.setText(From);

        lblT.setText(Tocity);

        lblE.setText(Email);

        JOptionPane.showMessageDialog(rootPane,"CONGRATULATIONS! YOUR Ticket Has been
Confirmed.");
}

    catch (Exception e){JOptionPane.showMessageDialog(rootPane, "Incorrect Name OR Mobile  Number
OR Error In Connection");

        }

    }
private void clearbtnActionPerformed(java.awt.event.ActionEvent evt) {

    txtN.setText("");

    txtM.setText("");

    lblDOB.setText("");

    lblJ.setText("");

    lblF.setText("");

    lblT.setText("");

    lblE.setText("");
```

```
        txtN.grabFocus();


}

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

        JOptionPane.showMessageDialog(rootPane,"You Will be redirected to Main Menu");

        new Menu().setVisible(true);

        this.setVisible(false);

    }

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

        System.exit(0);

}
```

* IF USER SELECT EXIT OPTION IN MAIN MENU ,THEN ON CLICK OF NEXT BUTTON , APPLICATION WILL CLOSE.

IN THIS WAY , TICKET BOOKING,TICKET CANCELLATION , FLIGHT AND TICKET DETAILS CHECK TAKE PLACE IN ALL AIRLINES IN ALL OVER THE WORLD.

BIBLIOGRAPHY

1) Informatics Practices a textbook by Sumita Arora for class XII for java and mysql basic knowledge about methods and concepts.

2) http//:www.google.com/ for obtaining basic knowledge for project about working of 'AIRLINE MANAGEMENT SYSTEM'.

3) http//:www.wikipedia.org/

4) Move Fast With Informatics Practices by Sumita Arora for Class XII for Sample Projects and for connectivity between Java   and   Mysql.

5) http//:www.airindia.in for the procedure of ticket booking , ticket   cancellation and other services.