

**JAVA SWING BASED - AIR LINES QUALITY AND  
INFORMATION MANAGEMENT SYSTEM-SQL  
CONNECTIVITY USING JDBC**

**A**

*Report*

*Submitted in partial fulfilment of the  
Requirements for the award of the Degree of  
**BACHELOR OF TECHNOLOGY**  
IN*

**INFORMATION TECHNOLOGY**

**By**

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## **BONAFIDE CERTIFICATE**

This to Certify that the project report titled **“AIRLINES QUALITY AND INFORMATION MANAGEMENT SYSTEM”** project work of Mr.M.MANEETH bearing Roll.no:1602-18-737-082 who carried out this project under my supervision in the IV semester for the academic year 2019-2020.

Signature  
*external examiner*

Signature  
*internal examiner*

## **ABSTRACT:**

This is project “Air lines quality and information management system”. Product quality has entered the consciousness of organizations with a vengeance. It has become crystal clear that high-quality products have a distinct advantage in the market place, that market share can be gained or lost over the quality issue. Therefore, quality is a competitive priority. Quality is the only factor that ensures an organization's survival and growth. Quality focuses on meeting consumer need, meeting the competition, improving continuously and extending these concerns to all phases of business. Today, it has been well understood by managers that the real price of poor quality is lost consumers and ultimately, the death of an organization. Therefore, to be successful in today's business environment, organizations must pay attention to quality. Hence, a systematic procedure has to be evolved and followed and different concepts of quality management have to be understood clearly for designing and executing the quality management programme effectively and every information regarding the product should be crystal clear and this project gives us the quality and information about the product.so the product can be redesigned again for further improvement and development.

## Introduction:

## REQUIREMENT ANALYSIS

### List of tables:

- ASSESS
- COMPANY
- FEEDBACK
- GIVES
- PRODUCT
- SENDS
- TEST

### List of attributes with their domain types:

#### Company:

Company id:cid -Number()

Company name:cname-varchar()

Phone no:p\_no-number(10)

Email: email\_id -varchar(20)

#### Product:

Product id: pid -number(5)

Product name: p\_name-varchar(20)

Type of product: type -varchar(15)

Cost of product: cost-number(6)

Quantity :quantity-number(5)

#### Test:

Tester id: tid-number(5)

Test Manager:pilot/tester-varchar(5)

Quality report:quality-varchar(10)

Specified in: specified\_in -varchar(20)

Condition: condition-varchar(30)

#### Feedback:

Feedback id: fid-number(5)

Product id: pid-number(5)

Product name=P\_name-varchar(15)

Message: message-varchar(30)

Rating: rating-number(3,1)

Sends:

Date: day-date

Gives:

Date : day-date

Assess:

Date : day-date

## **THROUGH THE PROJECT:**

This project helps to store data in a efficient way and it can be achieved through various sql commands and we can also store this for any future use and also we can save our data in a many different areas so we cannot lost all the data at once. The quality and product details are must in now a days because quality matters every where, these project stores details and feedback and testing details in database so that whenever it is necessary to know how and when a product can be used.

## **ARCHITECTURE AND TECHNOLOGY USED:**

### **SOFTWARE USED:**

Java Eclipse, Oracle 11g Database, Java SE version 8, SQL Plus.

### **Java SWING:**

**Swing** is a GUI widget toolkit for Java. It is part of Oracle's Java Foundation Classes (JFC) – an API for providing a graphical user interface (GUI) for Java programs.

Swing was developed to provide a more sophisticated set of GUI components than the earlier AWT. Swing provides a look and feel that emulates the look and feel of several platforms, and also supports a pluggable look and feel that allows applications to have a look and feel unrelated to the underlying platform. It has more powerful and flexible components than AWT. In addition to familiar components such as buttons, check boxes and labels, Swing provides several advanced components such as tabbed panel, scroll panes, trees, tables, and lists.

### **SQL:**

Structure Query Language (SQL) is a database query language used for storing and managing data in Relational DBMS. SQL was the first commercial language introduced for E.F Codd's **Relational** model of database. Today almost all RDBMS (MySql, Oracle, Infomix, Sybase, MS Access) use **SQL** as the standard database query language. SQL is used to perform all types of data operations in RDBMS.

## Java-SQL Connectivity using JDBC:

**Java Database Connectivity (JDBC)** is an application programming interface (API) for the programming language Java, which defines how a client may access a database. It is a Java-based data access technology used for Java database connectivity. It is part of the Java Standard Edition platform, from Oracle Corporation. It provides methods to query and update data in a database and is oriented towards relational databases.

The connection to the database can be performed using Java programming (JDBC API) as:

```
try
{
    Class.forName("oracle.jdbc.driver.OracleDriver");
}
catch (Exception e)
{
    System.err.println("Unable to find and load driver");
    System.exit(1);
}
public void connectToDB()
{
    try
    {
        connection =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1522:ORCL", "mydbms", "mydbms");
        statement = connection.createStatement();

    }
    catch (SQLException connectException)
    {
        System.out.println(connectException.getMessage());
        System.out.println(connectException.getSQLState());
        System.out.println(connectException.getErrorCode());
        System.exit(1);
    }
}
```

Thus, the connection from Java to Oracle database is performed and therefore, can be used for updating tables in the database directly.

## **Table Created in SQL for above mentioned purpose is as:**

```
SQL> create table company(cid number(5) primary key,cname varchar(20),email varchar(256),pno number(10));
```

Table created.

```
SQL> create table product(pid number(5) primary key,p_name varchar(35), type varchar(30),cost number(5,5),quantity number(5));
```

Table created.

```
SQL> create table test(tid number(5) primary key,quality varchar(30),testmanager varchar(20),condition varchar(20),specified_in varchar2(30));
```

Table created.

```
SQL> create table feedback(fid number(5) primary key,pid number(5),p_name varchar2(35),message varchar(30),rating number(3,1));
```

Table created.

```
SQL> create table sends(cid number(5),pid number(5),day date,primary key(cid,pid),foreign key(cid) references company(cid),foreign key(pid) references product(pid));
```

Table created.

```
SQL> create table assess(pid number(5),tid number(5),day date,primary key(pid,tid),foreign key(pid) references product(pid),foreign key(tid) references test(tid));
```

Table created.

```
SQL> alter table feedback add(tid number(5),
```

```
2 foreign key(tid) references test(tid),foreign key(pid) references product(pid));
```

Table altered.

```
SQL> create table gives( cid number(5) ,fid number(5),primary key(cid,fid),foreign key(cid) references company(cid),foreign key(fid) references feedback(fid));
```

Table created.

```
SQL> alter table gives add (day date);
```

Table altered.

```
SQL> alter table company modify( email varchar2(30));
```

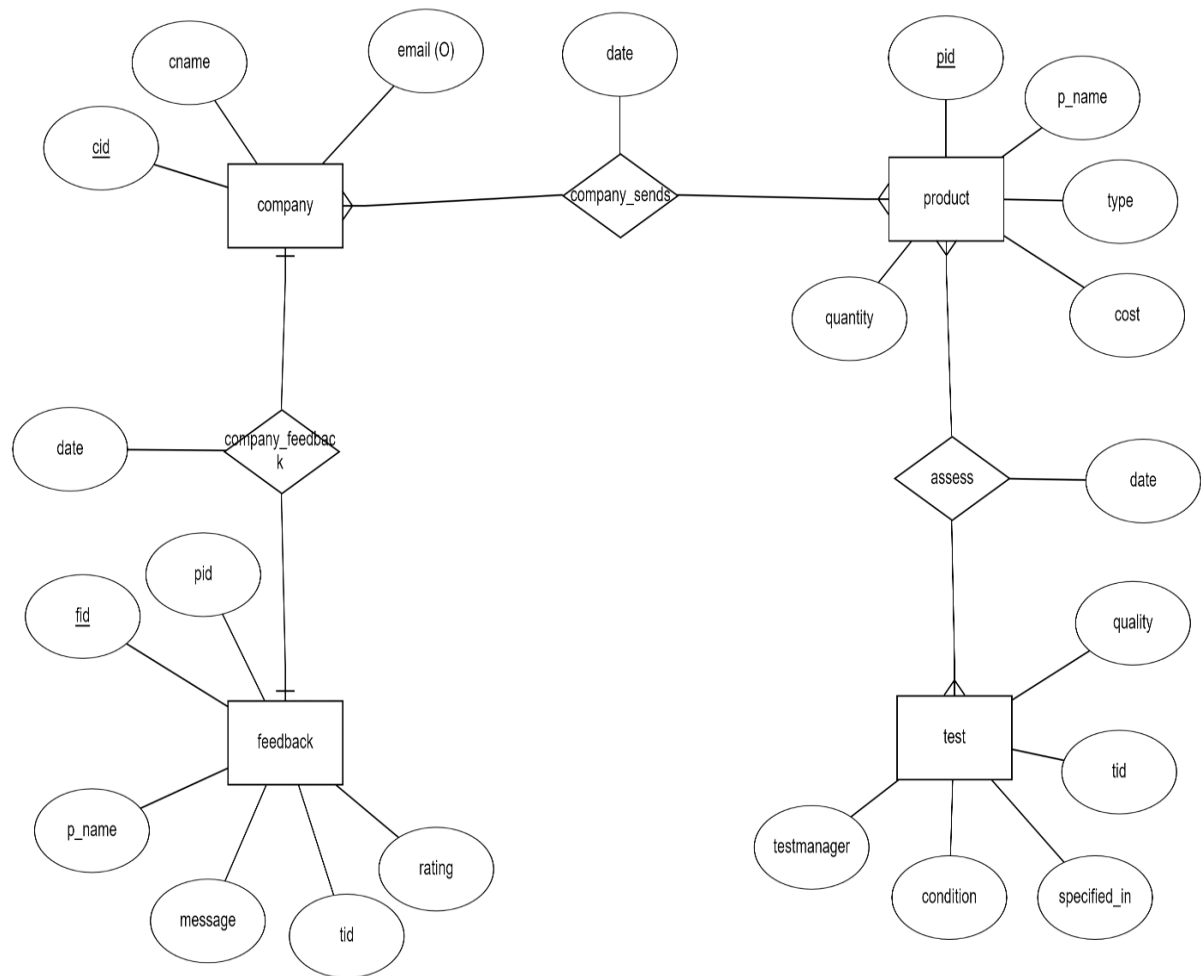
Table altered.

```
SQL> alter table test modify(quality varchar2(15),condition varchar2(18), specified_in varchar(15),testmanager varchar(15));
```

Table altered.

## DESIGN:

### ER DIAGRAM:



### Database Design:

SQL> select \* from tab;

TNAME	TABTYPE	CLUSTERID
-------	---------	-----------

ASSESS	TABLE	
COMPANY	TABLE	
FEEDBACK	TABLE	
GIVES	TABLE	
PRODUCT	TABLE	
SENDS	TABLE	
TEST	TABLE	

7 rows selected.

SQL> desc ASSESS;

Name	Null?	Type
------	-------	------

PID	NOT NULL	NUMBER(5)
-----	----------	-----------

ROLL NO: 1602-18-737-082

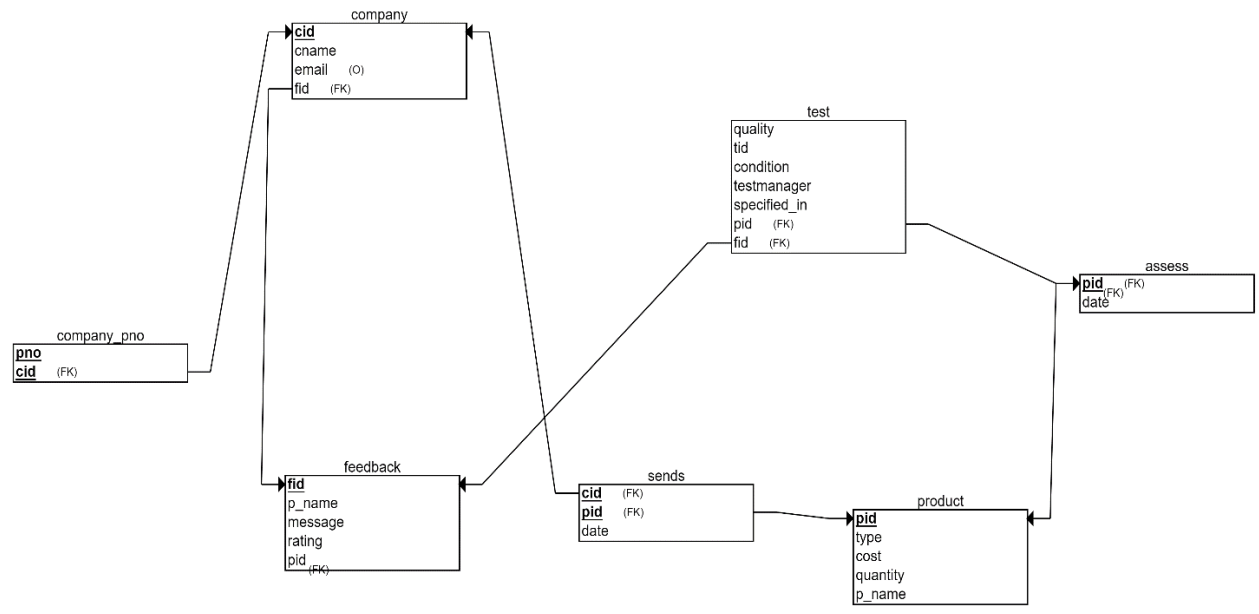
NAME: MADISHETTI MANEETH



```

TID                NOT NULL NUMBER(5)
DAY                DATE
SQL> desc Company;
Name              Null?   Type
-----
CID                NOT NULL NUMBER(5)
CNAME              VARCHAR2(20)
EMAIL              VARCHAR2(30)
PNO                NUMBER(10)
SQL> desc feedback;
Name              Null?   Type
-----
FID                NOT NULL NUMBER(5)
PID                NUMBER(5)
P_NAME             VARCHAR2(20)
MESSAGE            VARCHAR2(15)
RATING             NUMBER(3,1)
TID                NUMBER(5)
SQL> desc product;
Name              Null?   Type
-----
PID                NOT NULL NUMBER(5)
P_NAME             VARCHAR2(20)
TYPE               VARCHAR2(20)
COST               NUMBER(10)
QUANTITY           NUMBER(10)
SQL> desc test;
Name              Null?   Type
-----
TID                NOT NULL NUMBER(5)
QUALITY            VARCHAR2(15)
TESTMANAGER        VARCHAR2(15)
CONDITION           VARCHAR2(18)
SPECIFIED_IN        VARCHAR2(15)
SQL> desc sends;
Name              Null?   Type
-----
CID                NOT NULL NUMBER(5)
PID                NOT NULL NUMBER(5)
DAY                DATE
SQL> desc gives;
Name              Null?   Type
-----
CID                NOT NULL NUMBER(5)
FID                NOT NULL NUMBER(5)
DAY                DATE

```



## Implementation:

### Program:

### User Interface:

```

import java.awt.BorderLayout;
import java.awt.Font;
import java.awt.Image;
import java.awt.Toolkit;
import java.awt.event.WindowAdapter;
import java.awt.event.WindowEvent;

import javax.swing.ImageIcon;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JMenu;
import javax.swing.JMenuBar;
import javax.swing.JMenuItem;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JTextField;

public class ProjectUI extends JFrame {
    /**
     *
     */
    private static final long serialVersionUID = 1L;
    private JMenu
mnucmpy,mnusends,mnuproduct,mnuassess,mnutester,mnucpyfeed,mnufeed;
    private JMenuBar mnuBar;
    private JMenuItem miInsert1,miUpdate1,midelete1,miView1;
    private JMenuItem miInsert2,miUpdate2,midelete2,miView2;
    private JMenuItem miInsert3,miUpdate3,midelete3,miView3;

```

```
private JMenuItem miInsert4,miUpdate4,midelete4,miView4;
private JMenuItem miInsert5,miUpdate5,midelete5,miView5;
private JMenuItem miInsert6,miUpdate6,midelete6,miView6;
private JMenuItem miInsert7,miUpdate7,midelete7,miView7;
private JTextField txtField;

static JPanel p1;
int x=0,y=100;
void initialize()
{
    //po=new JPanel();
    p1=new JPanel();
    mnucmpy=new JMenu("Company");
    mnuproduct=new JMenu("Product");
    mnusends=new JMenu("Sends");
    mnutester=new JMenu("Tester");
    mnuassess=new JMenu("Assess");
    mnufeed=new JMenu("FeedBack");
    mnucpyfeed=new JMenu("Comp_FeedBack");
    mnuBar=new JMenuBar();

    miInsert1=new JMenuItem("Insert");
    miUpdate1=new JMenuItem("Update");
    midelete1=new JMenuItem("Delete");
    miView1=new JMenuItem("View");

    miInsert2=new JMenuItem("Insert");
    miUpdate2=new JMenuItem("Update");
    midelete2=new JMenuItem("Delete");
    miView2=new JMenuItem("View");

    miInsert3=new JMenuItem("Insert");
    miUpdate3=new JMenuItem("Update");
    midelete3=new JMenuItem("Delete");
    miView3=new JMenuItem("View");

    miInsert4=new JMenuItem("Insert");
    miUpdate4=new JMenuItem("Update");
    midelete4=new JMenuItem("Delete");
    miView4=new JMenuItem("View");

    miInsert5=new JMenuItem("Insert");
    miUpdate5=new JMenuItem("Update");
    midelete5=new JMenuItem("Delete");
    miView5=new JMenuItem("View");

    miInsert6=new JMenuItem("Insert");
    miUpdate6=new JMenuItem("Update");
    midelete6=new JMenuItem("Delete");
    miView6=new JMenuItem("View");

    miInsert7=new JMenuItem("Insert");
    miUpdate7=new JMenuItem("Update");
    midelete7=new JMenuItem("Delete");
    miView7=new JMenuItem("View");
```

```
        txtField = new JTextField("    Air lines quality and information
management system");
        txtField.setFont(new Font("Serif", Font.PLAIN, 25));
        txtField.setEditable(false);
        //    po.setBackground(Color.MAGENTA);
    }
    void addComponentsToFrame()
    {
        mnucmpy.add(miInsert1);
        mnucmpy.add(miUpdate1);
        mnucmpy.add(midelete1);
        mnucmpy.add(miView1);

        mnusends.add(miInsert2);
        mnusends.add(miUpdate2);
        mnusends.add(midelete2);
        mnusends.add(miView2);

        mnuproduct.add(miInsert3);
        mnuproduct.add(miUpdate3);
        mnuproduct.add(midelete3);
        mnuproduct.add(miView3);

        mnuassess.add(miInsert4);
        mnuassess.add(miUpdate4);
        mnuassess.add(midelete4);
        mnuassess.add(miView4);

        mnutester.add(miInsert5);
        mnutester.add(miUpdate5);
        mnutester.add(midelete5);
        mnutester.add(miView5);

        mnucpyfeed.add(miInsert6);
        mnucpyfeed.add(miUpdate6);
        mnucpyfeed.add(midelete6);
        mnucpyfeed.add(miView6);

        mnufeed.add(miInsert7);
        mnufeed.add(miUpdate7);
        mnufeed.add(midelete7);
        mnufeed.add(miView7);

        mnuBar.add(mnucmpy);
        mnuBar.add(mnusends);
        mnuBar.add(mnuproduct);
        mnuBar.add(mnuassess);
        mnuBar.add(mnutester);
        mnuBar.add(mnucpyfeed);
        mnuBar.add(mnufeed);
        setJMenuBar(mnuBar);

        p1.setLayout(new BorderLayout());
        p1.add(txtField, BorderLayout.CENTER);
```

```

        JLabel imgLabel = new JLabel(new ImageIcon("src/img11.jpg"));
        p1.add(imgLabel, BorderLayout.SOUTH);
        this.setLayout(new BorderLayout());
        add(p1, BorderLayout.CENTER);
    }
    void register()
    {
        CompanyTable t1=new
CompanyTable(p1,ProjectUI.this,miInsert1,miUpdate1,midelete1,miView1);
        t1.regis_company();
        SendsTable t2=new
SendsTable(p1,ProjectUI.this,miInsert2,miUpdate2,midelete2,miView2);
        t2.regis_sends();
        ProductTable t3=new
ProductTable(p1,ProjectUI.this,miInsert3,miUpdate3,midelete3,miView3);
        t3.regis_product();
        AssessTable t4=new AssessTable(p1, ProjectUI.this, miInsert4,
miUpdate4, midelete4, miView4);
        t4.regis_assess();
        TestTable t5=new
TestTable(p1,ProjectUI.this,miInsert5,miUpdate5,midelete5,miView5);
        t5.regis_test();
        Comp_FeedTable t6=new Comp_FeedTable(p1, ProjectUI.this,
miInsert6,miUpdate6, midelete6, miView6);
        t6.regis_companyFeedback();
        FeedbackTable t7=new
FeedbackTable(p1,ProjectUI.this,miInsert7,miUpdate7,midelete7,miView7);
        t7.regis_Feedback();
        addWindowListener(new WindowAdapter(){
            public void windowClosing(WindowEvent evt)
            {
                ImageIcon icon = new
ImageIcon("src/t21.jpg");//C:\Users\DELL\Desktop\dbms\project\airlines Quality and
Inf mgmt system\src
                int
a=JOptionPane.showConfirmDialog(ProjectUI.this,"Are you sure?", "This will close
the UI", JOptionPane.OK_CANCEL_OPTION, JOptionPane.QUESTION_MESSAGE, icon);

                if(a==0)

ProjectUI.this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                else if(a==2)
                {
                    ProjectUI.this.invalidate();
                    ProjectUI.this.validate();
                    ProjectUI.this.repaint();
                }
            }
        });
    }

    public ProjectUI()
    {
        initialize();
    }

```

```
        addComponentsToFrame();
        register();
        pack();
        setTitle("Air lines quality and information management system");
        setSize(600,500);
        setVisible(true);
        Image icon = Toolkit.getDefaultToolkit().getImage("src/img23.png");
        setIconImage(icon);
        //setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }
}
```

## Company Table:

```
import java.awt.BorderLayout;
import java.awt.FlowLayout;
import java.awt.GridLayout;
import java.awt.List;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.ItemEvent;
import java.awt.event.ItemListener;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JMenuItem;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.JTable;
import javax.swing.JTextArea;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;

public class CompanyTable {

    private JPanel p1;
    private JFrame frame;

    private JMenuItem miInsert1,miUpdate1,midelete1,miView1;
    private JLabel lblcid,lblcname,lbemail,lblphone;
    private JTextField txtcid,txtcname,txtemail,txtphone;
    private JButton btn;
    private JTextArea txtmsg;
    private Connection connection;
    private Statement statement;
    public CompanyTable(JPanel p1,JFrame frame,JMenuItem miInsert1,JMenuItem
miUpdate1,JMenuItem midelete1,JMenuItem miView1) {
        try
        {
            Class.forName("oracle.jdbc.driver.OracleDriver");
        }
    }
}
```

```

        catch (Exception e)
        {
            System.err.println("Unable to find and load driver");
            System.exit(1);
        }
        connectToDB();
        this.frame=frame;
        this.p1=p1;
        this.miInsert1=miInsert1;
        this.midelete1=midelete1;
        this.miUpdate1=miUpdate1;
        this.miView1=miView1;
        txtcid=new JTextField(20);
        txtcname=new JTextField(20);
        txtemail=new JTextField(20);
        txtphone=new JTextField(20);
        txtmsg=new JTextArea(8,50);
        lblcid=new JLabel("Company Id:");
        lblcname=new JLabel("Company Name:");
        lblemail=new JLabel("Email:");
        lblphone=new JLabel("Phone No:");
        //queryHandler();
    }
    public void connectToDB()
    {
        try
        {
            connection =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1522:ORCL","mydbms","mydb
ms");
            statement = connection.createStatement();

        }
        catch (SQLException connectException)
        {
            System.out.println(connectException.getMessage());
            System.out.println(connectException.getSQLState());
            System.out.println(connectException.getErrorCode());
            System.exit(1);
        }
    }
    public void regis_company() {
        miInsert1.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent ae) {
                p1.removeAll();
                frame.invalidate();
                frame.validate();
                frame.repaint();
                // p1.setBackground(Color.CYAN);
                JPanel p=new JPanel();
                txtcid=new JTextField(20);
                txtcname=new JTextField(20);
                txtemail=new JTextField(20);
                txtphone=new JTextField(20);
                txtmsg=new JTextArea(8,50);
                btn=new JButton();
                //a grid of lbl and txtfield
                p.add(lblcid);
                p.add(txtcid);
            }
        });
    }

```

```

        p.add(lblcname);
        p.add(txtcname);
        p.add(lblemail);
        p.add(txtemail);
        p.add(lblphone);
        p.add(txtphone);
        p.setLayout(new GridLayout(4,2));

        p1.add(p);
        p1.add(btn);
        p1.add(txtmsg);//msg text area added to panel
        btn.setText("INSERT");
        p1.setLayout(new FlowLayout());
        frame.add(p1, BorderLayout.CENTER);
        frame.validate();

        //register listener
        btn.addActionListener(new ActionListener() {

            @Override
            public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                try {
                    Statement statement =
connection.createStatement();
                    String query= "INSERT INTO company
VALUES(" + txtcid.getText() + ", " + "'" + txtcname.getText() + "'," + "'" +
txtemail.getText() + "'," + txtphone.getText() + ")";
                    int i =
statement.executeUpdate(query);
                    txtmsg.append("\nInserted " +
i + " rows successfully");
                } catch (SQLException e1) {
                    // TODO Auto-generated catch block
                    e1.printStackTrace();

                    JOptionPane.showMessageDialog(frame, "Enter Details in Correct Format");
                    txtmsg.append(e1.getMessage());
                }
            }
        });

    }

});

miUpdate1.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent ae) {
        // p1.setBackground(Color.LIGHT_GRAY);
        p1.removeAll();
        frame.invalidate();
        frame.validate();
        frame.repaint();
        JPanel p=new JPanel();
        txtcid=new JTextField(20);
        txtcname=new JTextField(20);
        txtemail=new JTextField(20);
        txtphone=new JTextField(20);
        txtmsg=new JTextArea(8,50);
        txtmsg.setEditable(false);

```



```
        btn=new JButton();
        List idlist =new List(10);
        try
        {
            ResultSet rs = statement.executeQuery("SELECT cid FROM
company");

            while (rs.next())
            {
                idlist.add(rs.getString("cid"));
            }
        }
        catch (SQLException e)
        {
            JOptionPane.showMessageDialog(frame,"Enter
Details in Correct Format");
            txtmsg.append(e.getMessage());
        }

        p.add(lblcid);
        p.add(txtcid);
        p.add(lblcname);
        p.add(txtcname);
        p.add(lblemail);
        p.add(txtemail);
        p.add(lblphone);
        p.add(txtphone);

        p.setLayout(new GridLayout(4,2));
        p1.add(p);
        p1.add(idlist);
        p1.add(btn);
        p1.add(txtmsg);
        btn.setText("Update");
        p1.setLayout(new FlowLayout());

        frame.add(p1,BorderLayout.CENTER);
        frame.validate();

        idlist.addItemListener(new ItemListener()
        {
            @Override
            public void itemStateChanged(ItemEvent arg0) {
                // TODO Auto-generated method stub

                try
                {
                    ResultSet rs =
statement.executeQuery("SELECT * FROM company where CID
="+idlist.getSelectedItem());

                    rs.next();
                    txtcid.setText(rs.getString("CID"));

                    txtcname.setText(rs.getString("CNAME"));

                    txtemail.setText(rs.getString("Email"));

                    txtphone.setText(rs.getString("PNO"));
                }
                catch (SQLException selectException)
```

```

        {
            txtmsg.append(selectException.getMessage());
        }
    });

    btn.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            try
            {
                Statement statement =
connection.createStatement();
                int i =
statement.executeUpdate("UPDATE company "
+ "',' ' "
+ "',' ' "
+ "pno =" + txtphone.getText() + "
+ idlist.getSelectedItem());
                txtmsg.append("\nUpdated " + i + "
rows successfully");
                //idlist.removeAll();
                //loadSailors();
            }
            catch (SQLException insertException)
            {

                JOptionPane.showMessageDialog(frame,"Enter Details in Correct Format");
                txtmsg.append(insertException.getMessage());
            }
        }
    });

    midetele1.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent ae) {
            // p1.setBackground(Color.BLUE);
            p1.removeAll();
            frame.invalidate();
            frame.validate();
            frame.repaint();
            JPanel p=new JPanel();
            txtcid=new JTextField(20);
            txtcname=new JTextField(20);
            txtemail=new JTextField(20);
            txtphone=new JTextField(20);
            txtmsg=new JTextArea(8,50);

```

```

        btn=new JButton();
        List idlist =new List(10);
        try
        {
            ResultSet rs = statement.executeQuery("SELECT cid FROM
company");

            while (rs.next())
            {
                idlist.add(rs.getString("cid"));
            }
        }
        catch (SQLException e)
        {
            txtmsg.append(e.getMessage());
        }

        p.add(lblcid);
        p.add(txtcid);
        p.add(lblcname);
        p.add(txtcname);
        p.add(lblemail);
        p.add(txtemail);
        p.add(lblphone);
        p.add(txtphone);

        p.setLayout(new GridLayout(4,2));
        p1.add(p);
        p1.add(idlist);
        p1.add(btn);
        p1.add(txtmsg);
        btn.setText("Delete");
        p1.setLayout(new FlowLayout());

        frame.add(p1,BorderLayout.CENTER);
        frame.validate();

        idlist.addItemListener(new ItemListener()
        {
            @Override
            public void itemStateChanged(ItemEvent arg0) {
                // TODO Auto-generated method stub

                try
                {
                    ResultSet rs =
statement.executeQuery("SELECT * FROM company where CID
="+idlist.getSelectedItem());

                    rs.next();
                    txtcid.setText(rs.getString("CID"));

                    txtcname.setText(rs.getString("CNAME"));

                    txtemail.setText(rs.getString("Email"));

                    txtphone.setText(rs.getString("PNO"));
                }
                catch (SQLException selectException)
                {

```

```
txtmsg.append(selectException.getMessage());
    }
}
});

btn.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        try
        {
            Statement statement =
connection.createStatement();
            int i =
statement.executeUpdate("delete from company where cid=" +
idlist.getSelectedItem());
            txtmsg.append("\nDeleted " + i + "
rows successfully");

            //idlist.removeAll();
            //loadSailors();
            txtcid.setText(null);
            txtcname.setText(null);
            txtemail.setText(null);
            txtphone.setText(null);
            idlist.removeAll();
        }
        catch (SQLException insertException)
        {

JOptionPane.showMessageDialog(frame,"Enter Details in Correct Format");
txtmsg.append(insertException.getMessage());
        }
    }
});

miView1.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        p1.removeAll();
        frame.invalidate();
        frame.validate();
        frame.repaint();
JTable j;
        DefaultTableModel model = new DefaultTableModel();
        j = new JTable(model);
        model.addColumn("CID");
        model.addColumn("Company Name");
        model.addColumn("Email");
        model.addColumn("Pno");
        try {
```

```
ResultSet rs=statement.executeQuery("select *
from company");
while(rs.next()) {
    model.addRow(new Object[]{rs.getString("cid"),
rs.getString("cname"),rs.getString("email"),rs.getString("pno")});
}
}
catch(SQLException e1) {
    JOptionPane.showMessageDialog(frame,"Something
Went Wrong");
}
//j.setBounds(0, 0, 500, 500);

JScrollPane sp = new JScrollPane(j);

p1.add(sp,BorderLayout.NORTH);
frame.invalidate();
frame.validate();
frame.repaint();
}
});

}
}
```

### Main:

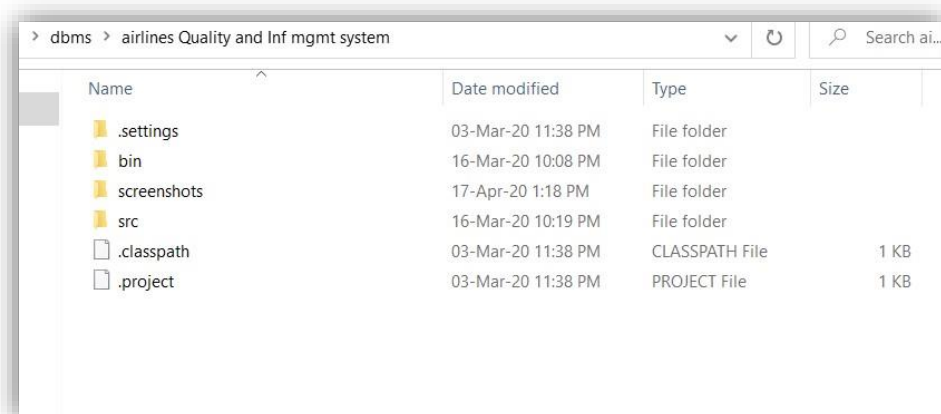
```
public class Main {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        new ProjectUI();
    }

}
```

## GitHub links and folder structure

<https://github.com/ManeethMadishetti/DBMSPROJECT>



## DBMS MINI PROJECT

### TITLE: AIR LINES QUALITY AND INFORMATION MANAGEMENT SYSTEM

dbms > airlines Quality and Inf mgmt system > src

Name	Date modified	Type	Size
AssessTable	15-Mar-20 7:15 PM	JAVA File	10 KB
Comp_FeedTable	15-Mar-20 7:15 PM	JAVA File	10 KB
CompanyTable	15-Mar-20 7:20 PM	JAVA File	10 KB
FeedbackTable	16-Mar-20 9:51 PM	JAVA File	12 KB
in	16-Mar-20 10:08 PM	JPG File	22 KB
Main	04-Mar-20 10:46 PM	JAVA File	1 KB
OracleCon	13-Mar-20 9:19 PM	JAVA File	1 KB
ProductTable	16-Mar-20 9:30 PM	JAVA File	11 KB
ProjectUI	17-Mar-20 7:15 PM	JAVA File	6 KB
SendsTable	15-Mar-20 7:14 PM	JAVA File	10 KB
t1	16-Mar-20 10:14 PM	JFIF File	3 KB
t2	16-Mar-20 10:18 PM	JFIF File	14 KB
t21	16-Mar-20 10:19 PM	JPG File	7 KB
TestTable	16-Mar-20 9:37 PM	JAVA File	12 KB

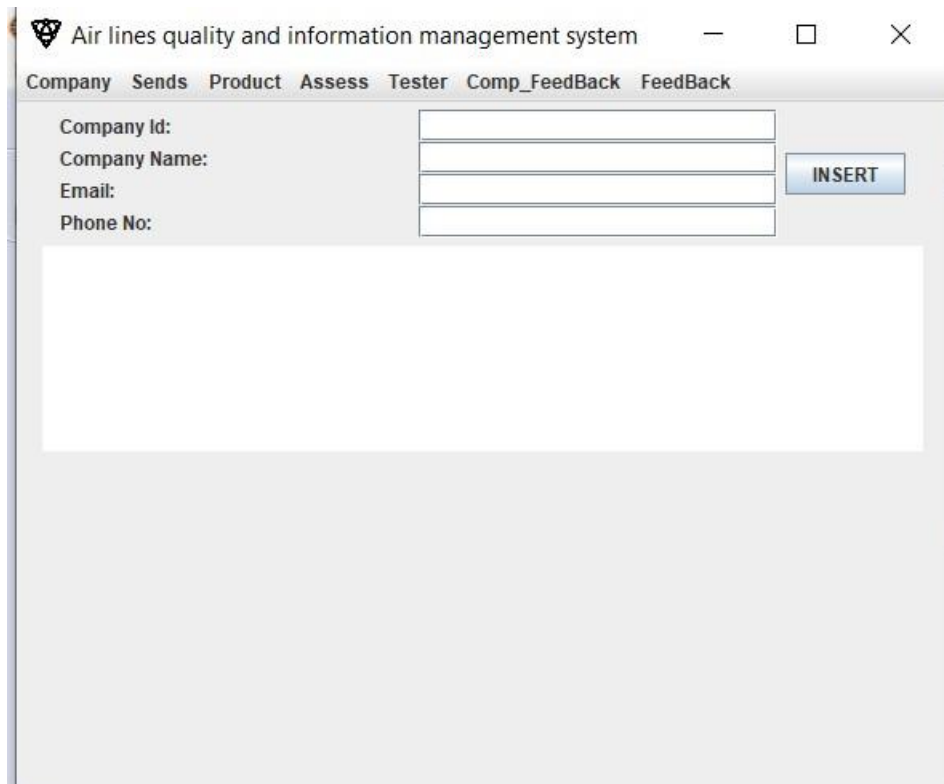
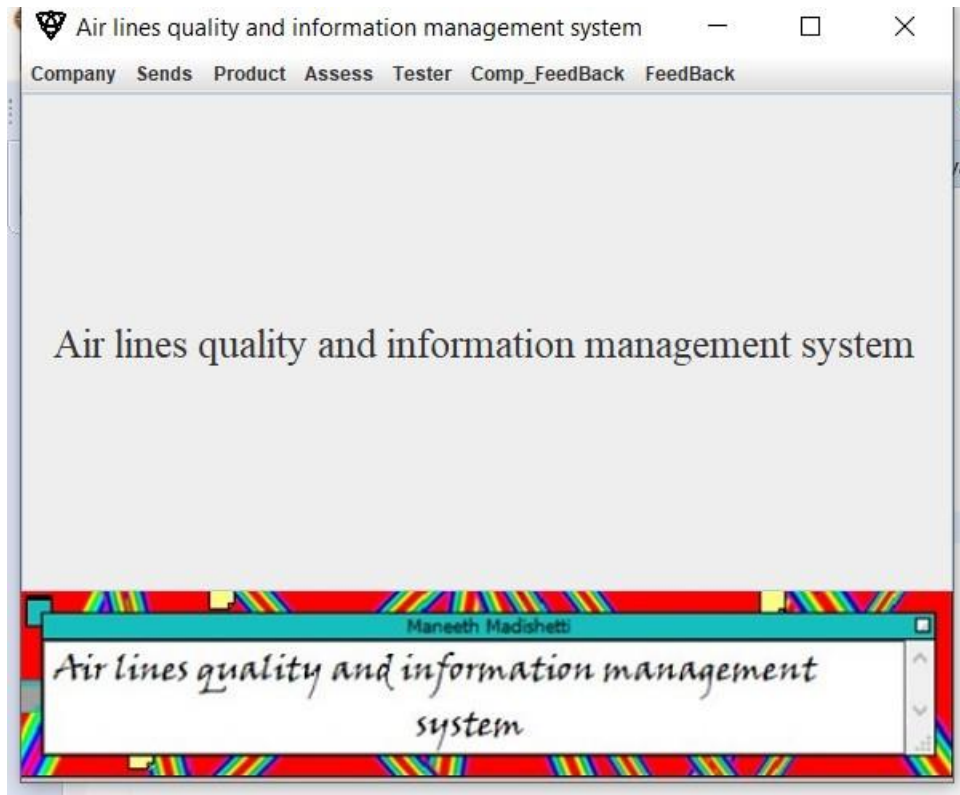
(D:)  
(E:)  
(F:)

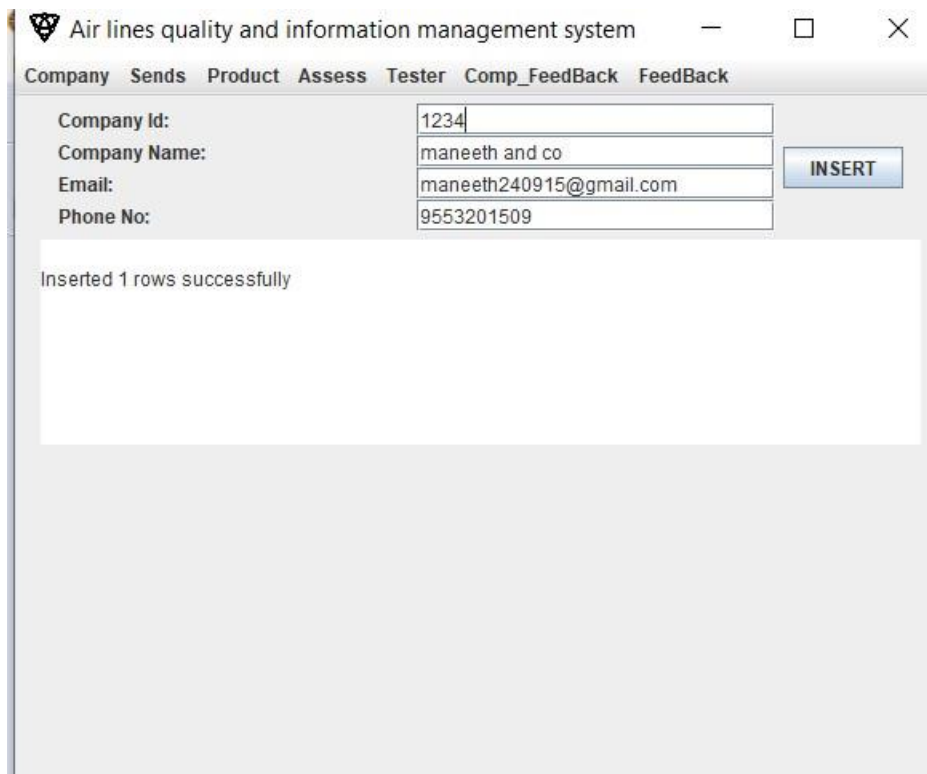
dbms > airlines Quality and Inf mgmt system > bin

Name	Date modified	Type	Size
AssessTable\$1\$1.class	15-Mar-20 7:15 PM	CLASS File	2 KB
AssessTable\$1.class	15-Mar-20 7:15 PM	CLASS File	3 KB
AssessTable\$2\$1.class	15-Mar-20 7:15 PM	CLASS File	3 KB
AssessTable\$2\$2.class	15-Mar-20 7:15 PM	CLASS File	2 KB
AssessTable\$2.class	15-Mar-20 7:15 PM	CLASS File	4 KB
AssessTable\$3\$1.class	15-Mar-20 7:15 PM	CLASS File	3 KB
AssessTable\$3\$2.class	15-Mar-20 7:15 PM	CLASS File	2 KB
AssessTable\$3.class	15-Mar-20 7:15 PM	CLASS File	4 KB
AssessTable\$4.class	15-Mar-20 7:15 PM	CLASS File	3 KB
AssessTable.class	15-Mar-20 7:15 PM	CLASS File	5 KB
Comp_FeedTable\$1\$1.class	15-Mar-20 7:15 PM	CLASS File	2 KB
Comp_FeedTable\$1.class	15-Mar-20 7:15 PM	CLASS File	3 KB
Comp_FeedTable\$2\$1.class	15-Mar-20 7:15 PM	CLASS File	3 KB
Comp_FeedTable\$2\$2.class	15-Mar-20 7:15 PM	CLASS File	2 KB
Comp_FeedTable\$2.class	15-Mar-20 7:15 PM	CLASS File	4 KB
Comp_FeedTable\$3\$1.class	15-Mar-20 7:15 PM	CLASS File	3 KB
Comp_FeedTable\$3\$2.class	15-Mar-20 7:15 PM	CLASS File	3 KB
Comp_FeedTable\$3.class	15-Mar-20 7:15 PM	CLASS File	4 KB
Comp_FeedTable\$4.class	15-Mar-20 7:15 PM	CLASS File	3 KB
Comp_FeedTable.class	15-Mar-20 7:15 PM	CLASS File	5 KB
CompanyTable\$1\$1.class	15-Mar-20 7:20 PM	CLASS File	2 KB
CompanyTable\$1.class	15-Mar-20 7:20 PM	CLASS File	3 KB
CompanyTable\$2\$1.class	15-Mar-20 7:20 PM	CLASS File	2 KB
CompanyTable\$2\$2.class	15-Mar-20 7:20 PM	CLASS File	2 KB
CompanyTable\$2.class	15-Mar-20 7:20 PM	CLASS File	4 KB
CompanyTable\$3\$1.class	15-Mar-20 7:20 PM	CLASS File	2 KB
CompanyTable\$3\$2.class	15-Mar-20 7:20 PM	CLASS File	2 KB

## Testing:

### Java GUI Testing:





Air lines quality and information management system

Company Sends Product Assess Tester Comp\_FeedBack FeedBack

Company Id: 1234

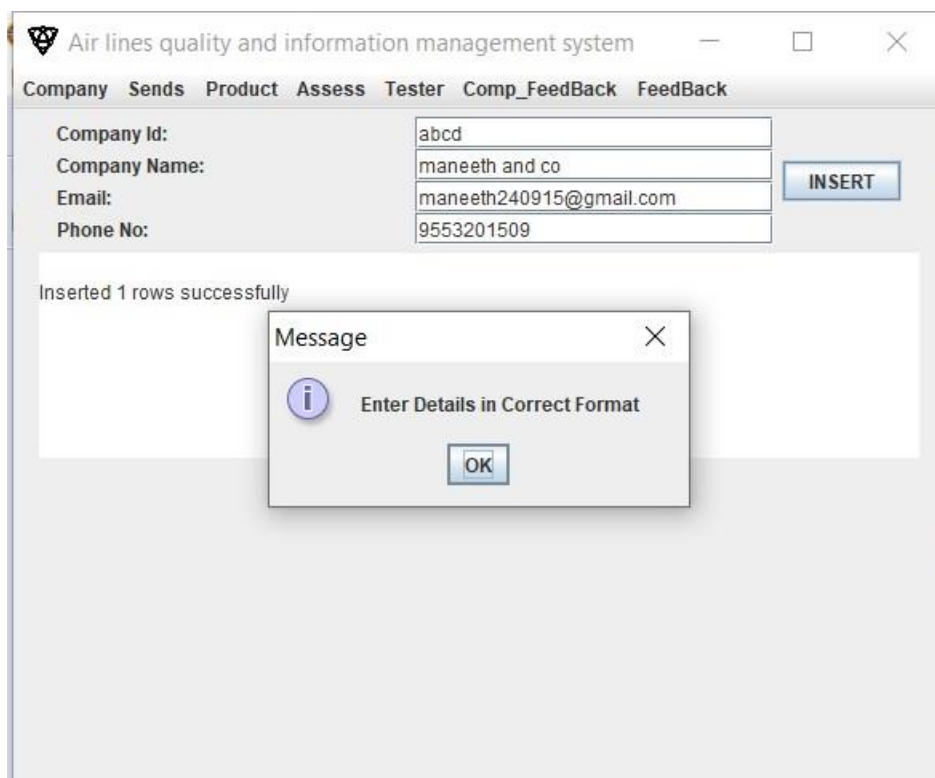
Company Name: maneeth and co

Email: maneeth240915@gmail.com

Phone No: 9553201509

INSERT

Inserted 1 rows successfully



Air lines quality and information management system

Company Sends Product Assess Tester Comp\_FeedBack FeedBack

Company Id: abcd

Company Name: maneeth and co

Email: maneeth240915@gmail.com

Phone No: 9553201509

INSERT

Inserted 1 rows successfully

Message

Enter Details in Correct Format

OK



Air lines quality and information management system

Company Sends Product Assess Tester Comp\_FeedBack FeedBack

Company Id: 123  
Company Name: cisco  
Email: cisco123@gmail.com  
Phone No: 9632587410

121  
123  
124  
520  
1234

Update

Air lines quality and information management system

Company Sends Product Assess Tester Comp\_FeedBack FeedBack

Company Id: 123  
Company Name: cisco.net  
Email: cisco123@gmail.com  
Phone No: 9632587410

121  
123  
124  
520  
1234

Update

Updated 1 rows successfully

DBMS MINI PROJECT  
TITILE: AIR LINES QUALITY AND INFORMATION MANAGEMENT SYSTEM

Air lines quality and information management system

Company Sends Product Assess Tester Comp\_FeedBack FeedBack

Company Id:

Company Name:

Email:

Phone No:

121  
123  
124  
520  
1234

Delete

Air lines quality and information management system

Company Sends Product Assess Tester Comp\_FeedBack FeedBack

Company Id:

Company Name:

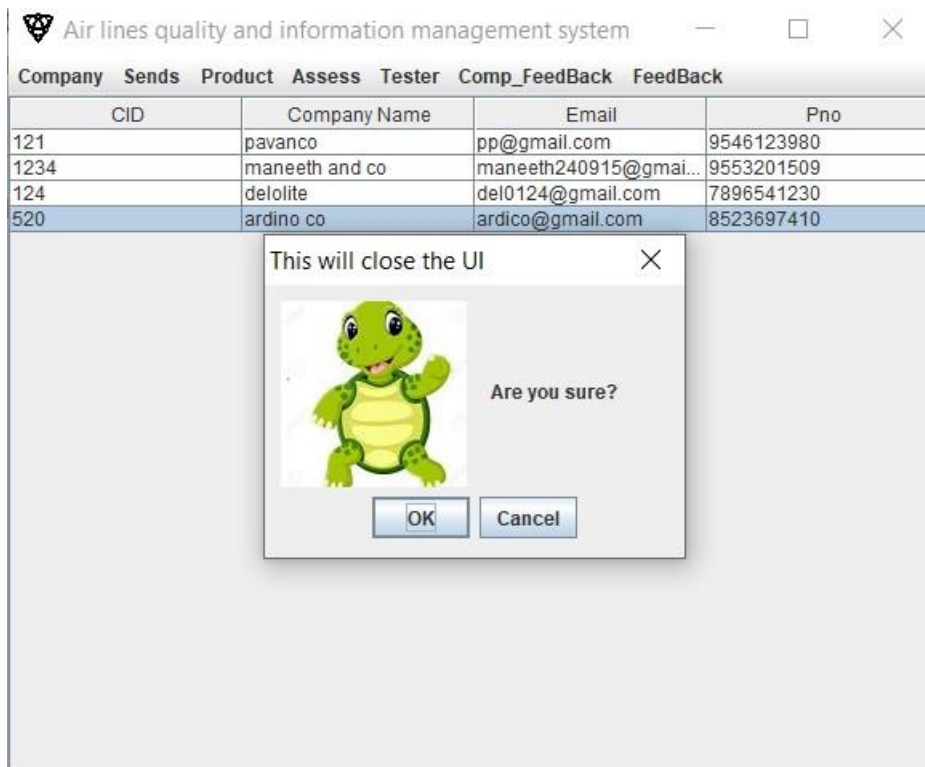
Email:

Phone No:

121  
124  
520  
1234

Delete

Air lines quality and information management system			
Company	Sends	Product	Assess
Tester	Comp_FeedBack	FeedBack	
CID	Company Name	Email	Pno
121	pavanco	pp@gmail.com	9546123980
1234	maneeth and co	maneeth240915@gmai...	9553201509
124	delolite	del0124@gmail.com	7896541230
520	ardino co	ardico@gmail.com	8523697410



**The data entered in the above form is updated in the “company ” table of the Oracle database 11g as:**

```
SQL> select * from company;
```

CID	CNAME	EMAIL	PNO
121	pavanco	pp@gmail.com	9546123980
1234	maneeth and co	maneeth240915@gmail.com	9553201509
124	delolite	de10124@gmail.com	7896541230
520	ardino co	ardico@gmail.com	8523697410

```
SQL>
```

## Results:

I successfully completed this MINI PROJECT “Air Lines Quality and control Management system”.

## Discussion and Future work

While doing this project I got new ideas I understood how to work on projects. Now to further extend this project I want to create a android app by which I can control my project on my hand and connect to it.

## References:

- [https://www.academia.edu/36893248/Ramakrishnan - Database Management Systems 3rd Edition](https://www.academia.edu/36893248/Ramakrishnan_-_Database_Management_Systems_3rd_Edition)
- <https://docs.oracle.com/javase/7/docs/index.html>
- <https://www.javatpoint.com/dbms-tutorial>
- [http://www.sqlines.com/articles/java/sql\\_server\\_jdbc\\_connection](http://www.sqlines.com/articles/java/sql_server_jdbc_connection)