

JAVA SWING BASED- CYBER SECURITY DATA MANAGEMENT- SQL CONNECTIVITY USING JDBC

A

Report

*Submitted in partial fulfilment of the
Requirements for the award of the Degree of*

BACHELOR OF ENGINEERING

IN

INFORMATION TECHNOLOGY

BY:

Mahendra Chittupolu <1602-18-737-081>



Department of Information Technology

Vasavi College of Engineering (Autonomous)

(Affiliated to Osmania University)

Ibrahimbagh, Hyderabad-31

2020

BONAFIDE CERTIFICATE

Certified that this project report titled “**CYBER SECURITY DATA MANAGEMENT**” is the bonafied Mini project work of **Mr.MAHENDRA.CH** (Roll.no:1602-18-737-081) who carried project under my supervision in the year **2020** certified further to my best knowledge.

Signature of the examiner

B. LEELAVATHY

Assistant professor

Department of Information Technology

Vasavi college of engineering

ABSTRACT

Since most of the world now a days runs through internet and many of us are not able to use it properly and cyber crimes are raising to store the data of complaining process and resolve this project helps to store data and change and delete records data of entries.

After recording we can view them and it stores data starting from victim to culprit. And in middle we can also have records of them employee like to whom the assigned and what is the process and status of the complain and also we can trace the culprit. And what action taken on them.

Through this we can save data efficiently in a better way using RDBMS

And also it helps police to look and eregister complaints

INTRODUCTION:

Requirement Analysis:

List of Tables:

1. User's record
2. Cyber crime
3. Complaints received
4. Department
5. Monitor
6. Action taken
7. Criminal record

List of attributes with their Domain types:

1. User's record:

- Name: Varchar(20)
- Phno: Number(10)
- usid: varchar(15)
- age: number(2)
- hno: varchar(15)
- street: varchar(15)
- Mandal: varchar(15)
- District: varchar(15)

2. Cyber Crime:

- cid: varchar(10)
- location: varchar(25)
- category: varchar(15)

3. Complaints received:

- usid: varchar(15)
- cid: varchar(10)
- received date: Date

4. Department:

- eid: varchar(15)
- ename: varchar(20)
- Designation: varchar(20)
- Branch: varchar(20)

5. Monitor:

- cid: varchar(10)
- eid: varchar(15)
- status: varchar(10)

6. Action taken:

- pid: varchar(15)
- eid: varchar(15)
- date resolved: DATE

7. Criminal record:

- Name: varchar(15)
- Ip addr: varchar(20)
- Pid: varchar(15)

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 user details cannot be lost so it is safer to use it . Users details can be made and also make to visible only to the users and also employee details can be make to visible to only employee, we can make this and can happen. And also by this we can track every ones data in a simple way and also we can make thus available to them and useful .

ARCHITECTURE AND TECHNOLOGY USED:

SOFTWARE USED:

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

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:

```
private void connToDb() {
    try {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        connection =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1522:xe", "Mahendra", "sqlmahi");
        statement = connection.createStatement();

    } catch (SQLException connectException) {
        System.out.println(connectException.getMessage());
        System.out.println(connectException.getSQLState());
        System.out.println(connectException.getErrorCode());
        System.exit(1);
    }
    catch (Exception e)
    {
        System.err.println("Unable to find and load driver");
        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.

DESIGN:

ER DIAGRAM:



DATA DESIGN:

Mapping cardinalities and participation constraints:

All users recorded details should be go to complaints received table so it is a total participation and many to one mapping cardinality.

The received complaints should me must go to cyber crime department so it is a one to one relation.

All data from cyber crime should go to a department where the cases are solved so it is a one to one mapping cardinality and total participation.

Action should be taken separately to the criminals so that criminal record table is one to one with action taken

And many officers can solve any type of cases so that is a many to many mapping cardinality.

And action is taken by departments so it is many to one relation and total participation constraint.

Every criminal will take actions so it is total participation constraints.

DDL COMMANDS:

```
SQL> CREATE TABLE users_record(  
  2  name varchar(20),  
  3  phno number(10),  
  4  usid varchar(15),  
  5  age number(2),  
  6  hno varchar(7),  
  7  street varchar(15),  
  8  mandal varchar(15),  
  9  district varchar(15),  
 10  primary key(usid));
```

Table created.

```
SQL> CREATE TABLE cyber_crime(  
  2  cid varchar(10),  
  3  location varchar(25),  
  4  category varchar(15),  
  5  primary key(cid));
```

Table created.

```
SQL> CREATE TABLE complaints_received(  
  2  usid varchar(15),  
  3  cid varchar(10),  
  4  received_date date,  
  5  foreign key(usid) references users_record,  
  6  foreign key(cid) references cyber_crime,  
  7  primary key(usid,cid));
```

Table created.

```
SQL> CREATE TABLE department(  
  2  eid varchar(15),  
  3  ename varchar(20),  
  4  designation varchar(20),  
  5  branch varchar(20),  
  6  primary key(eid));
```

Table created.

```
SQL> CREATE TABLE monitors(  
  2  cid varchar(10),  
  3  eid varchar(15),  
  4  status varchar(10),  
  5  foreign key(cid) references cyber_crime,  
  6  foreign key(eid) references department,  
  7  primary key(cid));
```

Table created.

```
SQL> CREATE TABLE criminal_record(  
  2  name varchar(15),  
  3  ip_addr varchar(20),  
  4  pid varchar(15),  
  5  primary key(pid));
```

Table created.

```
SQL> CREATE TABLE action_taken(  
  2  pid varchar(15),  
  3  eid varchar(15),  
  4  date_resolved date,  
  5  foreign key(eid) references department,  
  6  foreign key(pid) references criminal_record,  
  7  primary key(pid));
```

Table created.

Select*from tab;

Action_taken	Table
Complaints_received	Table
Criminal_record	Table
Cyber_crime	Table
Department	Table
Monitors	Table
Users_record	Table

```
SQL> desc users_record;
```

Name	Null?	Type
NAME		VARCHAR2(20)
PHNO		NUMBER(10)
USID	NOT NULL	VARCHAR2(15)
AGE		NUMBER(2)
HNO		VARCHAR2(7)
STREET		VARCHAR2(15)
MANDAL		VARCHAR2(15)
DISTRICT		VARCHAR2(15)

```
SQL> desc cyber_crime;
```

Name	Null?	Type
CID	NOT NULL	VARCHAR2(10)
LOCATION		VARCHAR2(25)
CATEGORY		VARCHAR2(15)

```
SQL> desc complaints_received;
```

Name	Null?	Type
USID	NOT NULL	VARCHAR2(15)
CID	NOT NULL	VARCHAR2(10)
RECEIVED_DATE		DATE

```
SQL> desc department;
```

Name	Null?	Type
EID	NOT NULL	VARCHAR2(15)
ENAME		VARCHAR2(20)
DESIGNATION		VARCHAR2(20)
BRANCH		VARCHAR2(20)

```
SQL> desc monitors;
```

Name	Null?	Type
CID	NOT NULL	VARCHAR2(10)
EID		VARCHAR2(15)
STATUS		VARCHAR2(10)

```
SQL> desc users_records;
```

```
SQL> desc criminal_record;
```

Name	Null?	Type
NAME		VARCHAR2(15)
IP_ADDR		VARCHAR2(20)
PID	NOT NULL	VARCHAR2(15)

```
SQL> desc action_taken;
```

Name	Null?	Type
PID	NOT NULL	VARCHAR2(15)
EID		VARCHAR2(15)
DATE_RESOLVED		DATE

DML COMMANDS:

```
SQL> insert into users_record values('&name',&phno,'&uid','&age','&hno','&street','&mandal','&district',
);
```

```
SQL> select *from users_record;
```

NAME	PHNO	USID	AGE	HNO
STREET	MANDAL	DISTRICT		
niteesh	6303520640	1	19	1-2/a
nandipahad	miryalaguda	nalagonda		
khushi	9346498993	2	18	12-5-505/17
kantinagar	mehadipatnam	hyderabad		
mohith	6302560420	3	19	12-133/6
krishna colony	miryalaguda	nalagonda		
NAME	PHNO	USID	AGE	HNO
STREET	MANDAL	DISTRICT		
badri	9246897210	4	19	15-155
kailashnagar	devarakonda	nalagonda		
kranthi	9864321102	5	22	12-33/s
donagalguda	moosapet	rangareddy		

```
SQL> /
Enter value for cid: 4
Enter value for location: lbnagar
Enter value for category: mobile
old 1: insert into cyber_crime values('&cid','&location','&category')
new 1: insert into cyber_crime values('4','lbnagar','mobile')

1 row created.

SQL> /
Enter value for cid: 5
Enter value for location: secundrabad
Enter value for category: mobile_data
old 1: insert into cyber_crime values('&cid','&location','&category')
new 1: insert into cyber_crime values('5','secundrabad','mobile_data')

1 row created.
```

```
SQL> select *from cyber_crime;
```

CID	LOCATION	CATEGORY
1	asif nagar	banking
2	asif nagar	hospitals
3	cyberabad	mobile
4	lbnagar	mobile
5	secundrabad	mobile_data

```
SQL> insert into complaints_received values('&usid','&cid','&received_date');
Enter value for usid: 1
Enter value for cid: 1
Enter value for received_date: 12-AUG-2019
old 1: insert into complaints_received values('&usid','&cid','&received_date')
new 1: insert into complaints_received values('1','1','12-AUG-2019')

1 row created.
```

```
SQL> /
Enter value for usid: 2
Enter value for cid: 2
Enter value for received_date: 15-OCT-2019
old 1: insert into complaints_received values('&usid','&cid','&received_date')
new 1: insert into complaints_received values('2','2','15-OCT-2019')

1 row created.
```



```
SQL> /
Enter value for usid: 3
Enter value for cid: 3
Enter value for received_date: 28-FEB-2019
old 1: insert into complaints_received values('&usid','&cid','&received_date')
new 1: insert into complaints_received values('3','3','28-FEB-2019')

1 row created.

SQL> /
```

```
SQL> /
Enter value for usid: 4
Enter value for cid: 4
Enter value for received_date: 01-JAN-2020
old 1: insert into complaints_received values('&usid','&cid','&received_date')
new 1: insert into complaints_received values('4','4','01-JAN-2020')

1 row created.
```

```
SQL> /
Enter value for usid: 5
Enter value for cid: 5
Enter value for received_date: 05-FEB-2020
old 1: insert into complaints_received values('&usid','&cid','&received_date')
new 1: insert into complaints_received values('5','5','05-FEB-2020')

1 row created.
```

```
1 row created.

SQL> select *from complaints_received;
```

USID	CID	RECEIVED_
1	1	12-AUG-19
2	2	15-OCT-19
3	3	28-FEB-19
4	4	01-JAN-20
5	5	05-FEB-20

```
SQL> /
Enter value for eid: 1202
Enter value for ename: seenaiah
Enter value for designation: ACP
Enter value for branch: cyberabad
old 1: insert into department values('&eid','&ename','&designation','&branch')
new 1: insert into department values('1202','seenaiah','ACP','cyberabad')

1 row created.

SQL> /
Enter value for eid: 1203
Enter value for ename: Arjun
Enter value for designation: DGP
Enter value for branch: moosapet
old 1: insert into department values('&eid','&ename','&designation','&branch')
new 1: insert into department values('1203','Arjun','DGP','moosapet')

1 row created.

SQL> /
Enter value for eid: 1204
Enter value for ename: malleshm
Enter value for designation: HIT
Enter value for branch: moosarambagh
old 1: insert into department values('&eid','&ename','&designation','&branch')
new 1: insert into department values('1204','malleshm','HIT','moosarambagh')

1 row created.
```

```
SQL> insert into department values('&eid','&ename','&designation','&branch');
Enter value for eid: 1205
Enter value for ename: mahesh
Enter value for designation: SI
Enter value for branch: lbnagar
old 1: insert into department values('&eid','&ename','&designation','&branch')
new 1: insert into department values('1205','mahesh','SI','lbnagar')

1 row created.
```

```
SQL> select *from department;
```

EID	ENAME	DESIGNATION	BRANCH
1201	narsaiah	SP	secundrabad
1202	seenaiah	ACP	cyberabad
1203	Arjun	DGP	moosapet
1204	malleshm	HIT	moosarambagh
1205	mahesh	SI	lbnagar

```
SQL>
```



```
SQL> insert into monitors values('&cid','&eid','&status');
Enter value for cid: 1
Enter value for eid: 1201
Enter value for status: pending
old 1: insert into monitors values('&cid','&eid','&status')
new 1: insert into monitors values('1','1201','pending')

1 row created.

SQL> /
Enter value for cid: 2
Enter value for eid: 1202
Enter value for status: completed
old 1: insert into monitors values('&cid','&eid','&status')
new 1: insert into monitors values('2','1202','completed')

1 row created.

SQL> /
Enter value for cid: 3
Enter value for eid: 1203
Enter value for status: completed
old 1: insert into monitors values('&cid','&eid','&status')
new 1: insert into monitors values('3','1203','completed')

1 row created.
```

```
SQL> /
Enter value for cid: 4
Enter value for eid: 1204
Enter value for status: pending
old 1: insert into monitors values('&cid','&eid','&status')
new 1: insert into monitors values('4','1204','pending')

1 row created.

SQL> /
Enter value for cid: 5
Enter value for eid: 1205
Enter value for status: completed
old 1: insert into monitors values('&cid','&eid','&status')
new 1: insert into monitors values('5','1205','completed')

1 row created.
```

```
SQL> select *from monitors;
```

CID	EID	STATUS
1	1201	pending
2	1202	completed
3	1203	completed
4	1204	pending
5	1205	completed

```
SQL> insert into criminal_record values('&name','&ip_addr','&pid');
```

Enter value for name: gilfoyle

Enter value for ip_addr: 192.192.168.52

Enter value for pid: 1

old 1: insert into criminal_record values('&name','&ip_addr','&pid')

new 1: insert into criminal_record values('gilfoyle','192.192.168.52','1')

1 row created.

```
SQL> /
```

Enter value for name: richard

Enter value for ip_addr: 255.255.127.27

Enter value for pid: 2

old 1: insert into criminal_record values('&name','&ip_addr','&pid')

new 1: insert into criminal_record values('richard','255.255.127.27','2')

1 row created.

```
SQL> /
```

Enter value for name: dinesh

Enter value for ip_addr: 192.192.168.52

Enter value for pid: 3

old 1: insert into criminal_record values('&name','&ip_addr','&pid')

new 1: insert into criminal_record values('dinesh','192.192.168.52','3')

1 row created.

```
SQL> /
```

Enter value for name: jian yang

Enter value for ip_addr: 192.192.168.35

Enter value for pid: 4

old 1: insert into criminal_record values('&name','&ip_addr','&pid')

new 1: insert into criminal_record values('jian yang','192.192.168.35','4')

1 row created.

```
SQL> /
```

Enter value for name: k.ramachandra

Enter value for ip_addr: 255.255.197.152

Enter value for pid: 5

old 1: insert into criminal_record values('&name','&ip_addr','&pid')

new 1: insert into criminal_record values('k.ramachandra','255.255.197.152','5')

1 row created.

```
SQL> insert into action_taken values('&pid','&eid','&date_resolved');
Enter value for pid: 1
Enter value for eid: 1201
Enter value for date_resolved: 20-AUG-2019
old 1: insert into action_taken values('&pid','&eid','&date_resolved')
new 1: insert into action_taken values('1','1201','20-AUG-2019')

1 row created.

SQL> /
Enter value for pid: 2
Enter value for eid: 1202
Enter value for date_resolved: 25-OCT-2019
old 1: insert into action_taken values('&pid','&eid','&date_resolved')
new 1: insert into action_taken values('2','1202','25-OCT-2019')

1 row created.

SQL> /
Enter value for pid: 3
Enter value for eid: 1203
Enter value for date_resolved: 7-MAY-2019
old 1: insert into action_taken values('&pid','&eid','&date_resolved')
new 1: insert into action_taken values('3','1203','7-MAY-2019')

1 row created.

SQL> /
Enter value for pid: 4
Enter value for eid: 1204
Enter value for date_resolved: 25-JAN-2020
old 1: insert into action_taken values('&pid','&eid','&date_resolved')
new 1: insert into action_taken values('4','1204','25-JAN-2020')

1 row created.

SQL> /
Enter value for pid: 5
Enter value for eid: 1205
Enter value for date_resolved: 10-FEB-2020
old 1: insert into action_taken values('&pid','&eid','&date_resolved')
new 1: insert into action_taken values('5','1205','10-FEB-2020')

1 row created.
```

IMPLEMENTATION:

USER INTERFACE:

```
package view;

import java.awt.CardLayout;
import java.awt.Color;

import complaintsReceived.*;
import java.awt.FlowLayout;
import java.awt.Font;
import java.awt.GridBagLayout;
import complaintsReceived.*;

import users.*;

import java.awt.GridLayout;
import java.awt.TextArea;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.WindowAdapter;
import java.awt.event.WindowEvent;

import javax.swing.BorderFactory;
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.UIManager;
import javax.swing.UnsupportedLookAndFeelException;
import javax.swing.border.Border;

import actionTaken.delAction;
import actionTaken.insertAction;
import actionTaken.viewAction;
import complaintsReceived.insertComplaints;
import criminalRecords.delCriminalrec;
```

```
import criminalRecords.insertCriminalrec;  
import criminalRecords.viewCriminalrec;  
import cyberCrime.delCyber;  
import cyberCrime.insertCyber;  
import cyberCrime.viewCyber;  
import department.delDept;  
import department.insertDept;  
import department.viewDept;  
import monitors.delMonitors;  
import monitors.insertMonitors;  
import monitors.viewMonitors;  
import users.insertUsers;
```

```
public class cyberGUI {  
    private JLabel lbl;  
    private JFrame f;  
    private JMenu mnuusers;  
    private JMenu mnuccrime;  
    private JMenu mnucomprec;  
    private JMenu mnudept;  
    private JMenu mnumon;  
    private JMenu mnucrec;  
    private JMenu mnuactkn;  
    private JMenuItem miinusers;  
    private JMenuItem midelusers;  
    private JMenuItem mivwusers;  
    private JMenuItem miinccrime;  
    private JMenuItem midelccrime;  
    private JMenuItem mivwccrime;  
    private JMenuItem miincomprec;  
    private JMenuItem midelcomprec;  
    private JMenuItem mivwcomprec;  
    private JMenuItem miindept;  
    private JMenuItem mideldept;  
    private JMenuItem mivwdept;  
    private JMenuItem miinmon;  
    private JMenuItem midelmon;  
    private JMenuItem mivwmon;  
    private JMenuItem miinccrec;  
    private JMenuItem midelccrec;  
    private JMenuItem mivwccrec;  
    private JMenuItem miinactkn;
```

```
private JMenuItem midelactkn;
private JMenuItem mivwactkn;
private JMenuBar mnuBar;
private JPanel pnl;

public cyberGUI() {
    initializeItems();
    AddItemsToFrame();
}

public void initializeItems()
{
    f = new JFrame();
    lbl = new JLabel("Cyber Security Data Management");
    mnuBar = new JMenuBar();
    mnuusers = new JMenu("User's Records");
    mnuccrime = new JMenu("Cyber Crime");
    miinusers = new JMenuItem("insert user's");
    midelusers = new JMenuItem("delete user's");
    mivwusers = new JMenuItem("view user's");
    miinccrime = new JMenuItem("insert cyber crime");
    midelccrime = new JMenuItem("delete cyber crime");
    mivwccrime = new JMenuItem("view cyber crime");
    mnucomprec = new JMenu("Complaint's Recieved");
    miincomprec = new JMenuItem("insert complaints recieved");
    midelcomprec = new JMenuItem("delete complaints recieved");
    mivwcomprec = new JMenuItem("view complaints recieved");
    mnudept = new JMenu("Department");
    miindept = new JMenuItem("insert department");
    mideldept = new JMenuItem("delete department");
    mivwdept = new JMenuItem("view department");
    mnumon = new JMenu("Monitor's");
    miinmon = new JMenuItem("insert into monitor's");
    midelmon = new JMenuItem("delete monitor's");
    mivwmon = new JMenuItem("view Monitor's");
    mnucrec = new JMenu("Criminal Record's");
    miinrec = new JMenuItem("insert criminal record");
    midelrec = new JMenuItem("delete criminal record");
    mivwrec = new JMenuItem("view criminal records");
    mnuactkn = new JMenu("Action Taken");
    miinactkn = new JMenuItem("insert actiontaken");
```

```
        midelactkn = new JMenuItem("delete action taken");
        mivwactkn = new JMenuItem("view action taken");
        pnl = new JPanel(new FlowLayout());

    }
    public void AddItemsToFrame()
    {
        mnuusers.add(miinusers);

        mnuusers.add(midelusers);
        mnuusers.add(mivwusers);
        mnuccrime.add(miinccrime);
        mnuccrime.add(midelccrime);
        mnuccrime.add(mivwccrime);
        mnucomprec.add(miincomprec);
        mnucomprec.add(midelcomprec);
        mnucomprec.add(mivwcomprec);
        mnudept.add(miindept);
        mnudept.add(mideldept);
        mnudept.add(mivwdept);
        mnumon.add(miinmon);
        mnumon.add(midelmon);
        mnumon.add(mivwmon);
        mnurec.add(miinrec);
        mnurec.add(midelrec);
        mnurec.add(mivwrec);
        mnuactkn.add(miinactkn);
        mnuactkn.add(midelactkn);
        mnuactkn.add(midelactkn);
        mnuactkn.add(mivwactkn);
        mnuBar.add(mnuusers);
        mnuBar.add(mnucomprec);
        mnuBar.add(mnuccrime);
        mnuBar.add(mnumon);
        mnuBar.add(mnudept);
        mnuBar.add(mnuactkn);
        mnuBar.add(mnurec);

        Font font = new Font("Monaco", Font.BOLD,25);
        Color clr = new Color(200, 100, 150);

        lbl.setFont(font);
```

```
lbl.setForeground(Color.RED);

miinusers.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        insertUsers inuser = new insertUsers();
        inuser.insusers();
    }

});

midelusers.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        delUsers deluser = new delUsers();
        deluser.delusers();
        // TODO Auto-generated method stub
    }

});

mivwusers.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        viewUsers vwuser = new viewUsers();
        vwuser.vwusers();
    }

});

miincomprec.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        insertComplaints incomp = new insertComplaints();
        incomp.incompliants();
    }

});

midelcomprec.addActionListener(new ActionListener() {

    @Override
```



```
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            delComplaints delComp = new delComplaints();
            delComp.delComp();
        }
    };

    mivwcomprec.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            viewComplaints vwcomp = new viewComplaints();
            vwcomp.vwComp();
            // TODO Auto-generated method stub
        }
    });

    miinccrime.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            insertCyber inscyber = new insertCyber();
            inscyber.insertcyber();
            // TODO Auto-generated method stub
        }
    });

    midelccrime.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            delCyber delcyber = new delCyber();
            delcyber.delcyber();
            // TODO Auto-generated method stub
        }
    });

    mivwccrime.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            viewCyber vwcyber = new viewCyber();
            vwcyber.viewcyber();
        }
    });
};
```

```
miinmon.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        insertMonitors insmon = new insertMonitors();
        insmon.insmoni();
    }

});

midelmon.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        delMonitors delmon = new delMonitors();
        delmon.delmoni();
    }

});

mivwmon.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        viewMonitors vwmon = new viewMonitors();
        vwmon.vwmoni();
    }

});

miindept.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        insertDept insdept = new insertDept();
        insdept.insdept();
    }

});

mideldept.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        delDept deldept = new delDept();
```

```
        deldept.deldept();
    }
});
mivwdept.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        viewDept vwDept = new viewDept();
        vwDept.vwdept();
    }
});
miinactkn.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        insertAction insacn = new insertAction();
        insacn.insactn();
    }
});
midelactkn.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        delAction delactn = new delAction();
        delactn.delacn();
    }
});
mivwactkn.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        viewAction vwacn = new viewAction();
        vwacn.vwacn();
    }
});
miincrec.addActionListener(new ActionListener() {

    @Override
```

```
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            insertCriminalrec inscrim = new insertCriminalrec();
            inscrim.inscrimrec();
        }
    };
    midelcrec.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            delCriminalrec delcrim = new delCriminalrec();
            delcrim.delcrimrec();
        }
    });
    mivwcrec.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            viewCriminalrec vwcrim = new viewCriminalrec();
            vwcrim.vwcrimrec();
        }
    });
    f.addWindowListener(new WindowAdapter(){
        public void windowClosing(WindowEvent evt)
        {

            int confirmed = JOptionPane.showConfirmDialog(null, "DO YOU WANT
TO EXIT?", "!!THIS CLOSES ENTERING DATA!!",JOptionPane.YES_NO_OPTION);
            if(confirmed == JOptionPane.YES_OPTION)
            {
                System.exit(0);
            }

        }
    });
```

```
f.add(new JLabel(new ImageIcon("C:\\Users\\mahendra\\Desktop\\lang\\java\\dbms/image.jpg")));

//f.setBounds(0,0,0,0);

f.setBackground(clr);
f.add(pnl);
f.setJMenuBar(mnuBar);
f.setTitle("CYBER SECURITY DATA MANAGEMENT");
f.setLayout(new FlowLayout());
f.setSize(1400,1400);
f.setVisible(true);

try {
    UIManager.setLookAndFeel("com.sun.java.swing.plaf.windows.WindowsLookAndFeel");
} catch (ClassNotFoundException | InstantiationException | IllegalAccessException
        | UnsupportedLookAndFeelException e1) {
    // TODO Auto-generated catch block
    e1.printStackTrace();
}

}
}
```

USERS RECORD:

INSERT_USERS:

```
package users;

import java.awt.Color;
import java.awt.FlowLayout;
import java.awt.GridLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.Statement;

import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
```

```
import javax.swing.JTextArea;
import javax.swing.JTextField;

public class insertUsers {
    Connection connection;
    Statement statement;
    public void connectToDB()
    {
        try
        {
            connection =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","Mahendra","sqlmahi");
            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 insusers() {
        try
        {
            Class.forName("oracle.jdbc.driver.OracleDriver");
        }
        catch (Exception e)
        {
            System.err.println("Unable to find and load driver");
            System.exit(1);
        }
        connectToDB();
        JFrame f = new JFrame();
        JLabel lname;
        JLabel lphno;
        JLabel luid;
        JLabel lage;
        JLabel lhno;
```

```
JLabel lstreet;  
JLabel lmandal;  
JLabel ldistrict;  
JTextField tfname;  
JTextField tfphno;  
JTextField tfusid;  
JTextField tfage;  
JTextField tfhno;  
JTextField tfstreet;  
JTextField tfmandal;  
JTextField tfdistrict;  
JTextArea tfdesc;  
JButton btnins;
```

```
lname = new JLabel("Name");  
lphno = new JLabel("Ph.no");  
lusid = new JLabel("User id");  
lage = new JLabel("Age");  
lhno = new JLabel("H:no");  
lstreet = new JLabel("Street");  
lmandal = new JLabel("Mandal");  
ldistrict = new JLabel("District");  
tfname = new JTextField(15);  
tfphno = new JTextField(15);  
tfusid = new JTextField(15);  
tfage = new JTextField(15);  
tfhno = new JTextField(15);  
tfstreet = new JTextField(15);  
tfmandal = new JTextField(15);  
tfdistrict = new JTextField(15);  
tfdesc = new JTextArea(10,55);  
btnins = new JButton("SUBMIT");  
JPanel pnl = new JPanel();  
JPanel pnl1 = new JPanel();  
JPanel pnl2 = new JPanel();
```

```
btnins.addActionListener(new ActionListener() {
```

```
    @Override  
    public void actionPerformed(ActionEvent e) {
```

```
// TODO Auto-generated method stub
try
{
    Statement statement = connection.createStatement();

    //String query = "INSERT INTO sailors
(userid,NAME,AGE,hno,street,mandal,dist) VALUES (2,'Divya',7,20)";

    String query= "INSERT INTO users_record
VALUES('"+tfname.getText()+"','"+tfphno.getText()
+"','"+tfusid.getText()+"','"+tfage.getText()+"','"+tfhno.getText()
+"','"+tfstreet.getText()+"','"+tfmandal.getText()+"','"+tfdistrict.getText()+"");

    int i = statement.executeUpdate(query);
    tfdesc.setText(null);
    tfdesc.append("\nInserted " + i + " rows successfully");
    tfname.setText(null);
    tfphno.setText(null);
    tfusid.setText(null);
    tfage.setText(null);
    tfhno.setText(null);
    tfstreet.setText(null);
    tfdistrict.setText(null);
    tfmandal.setText(null);

}
catch (SQLException insertException)
{

    tfdesc.append("\nENTER phno and age in number format
ONLY!!");

    tfdesc.append("\nSQLException: " + insertException.getMessage()
+ "\n");

    tfdesc.append("SQLState: " + insertException.getSQLState() +
"\n");

    tfdesc.append("VendorError: " + insertException.getErrorCode() +
"\n");

    tfname.setText(null);
    tfphno.setText(null);
    tfusid.setText(null);
    tfage.setText(null);
    tfhno.setText(null);
    tfstreet.setText(null);
    tfdistrict.setText(null);
    tfmandal.setText(null);
```



```
        }  
    }  
});  
  
    pnl1.add(lusid);  
    pnl1.add(tfusid);  
    pnl1.add(lname);  
    pnl1.add(tfname);  
    pnl1.add(lphno);  
    pnl1.add(tfphno);  
    pnl1.add(lage);  
    pnl1.add(tfage);  
    pnl1.add(lhno);  
    pnl1.add(tfhno);  
    pnl1.add(lstreet);  
    pnl1.add(tfstreet);  
    pnl1.add(lmandal);  
    pnl1.add(tfmandal);  
    pnl1.add(ldistrict);  
    pnl1.add(tfdistrict);  
    pnl2.add(tfdesc);  
    pnl.add(btnins);  
    pnl1.setLayout(new FlowLayout());  
    pnl2.setLayout(new FlowLayout());  
  
    f.getContentPane().setBackground(Color.DARK_GRAY);  
  
    f.add(pnl1);  
    f.add(pnl);  
    f.add(pnl2);  
  
    f.setLayout(new FlowLayout());  
  
    f.setVisible(true);  
    f.setSize(1500,600);  
    f.setTitle("Insert User's");  
  
    }  
}
```

VIEW USERS:

```
package users;

import java.awt.Color;
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 java.awt.FlowLayout;

import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JPanel;
import javax.swing.JTextArea;
import javax.swing.JTextField;

public class viewUsers {
    Connection connection;
    Statement statement;
    ResultSet rs;
    public void connectToDB()
    {
        try
        {
            connection =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","Mahendra","sqlmahi");
            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 vwusers() {
    try
    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
    }
    catch (Exception e)
    {
        System.err.println("Unable to find and load driver");
        System.exit(1);
    }
    connectToDB();
    JFrame f = new JFrame();
    JLabel lname;
    JLabel lphno;
    JLabel luserid;
    JLabel lage;
    JLabel lhno;
    JLabel lstreet;
    JLabel lmandal;
    JLabel ldistrict;
    JTextField tfname;
    JTextField tfphno;
    JTextField tfuserid;
    JTextField tfage;
    JTextField tfhno;
    JTextField tfstreet;
    JTextField tfmandal;
    JTextField tfdistrict;
    JTextArea jtadesc;
    JButton btnup;
    List liuserid;

    lname = new JLabel("Name");
    lphno = new JLabel("Ph.no");
    luserid = new JLabel("User id");
```

```
laga = new JLabel("Age");
lhno = new JLabel("H:no");
lstreet = new JLabel("Street");
lmandal = new JLabel("Mandal");
ldistrict = new JLabel("District");
tfname = new JTextField(15);
tfphno = new JTextField(15);
tfusid = new JTextField(15);
tfage = new JTextField(15);
tfhno = new JTextField(15);
tfstreet = new JTextField(15);
tfmandal = new JTextField(15);
tfdistrict = new JTextField(15);
jtadesc = new JTextArea(10,50);
liusid = new List(10);
btnup = new JButton("MODIFY");

JPanel pnlname = new JPanel();
JPanel pnlphno = new JPanel();
JPanel pnliusid = new JPanel();
JPanel pnlag = new JPanel();
JPanel pnlhno = new JPanel();
JPanel pnstreet = new JPanel();
JPanel pnmandal = new JPanel();
JPanel pndistrict = new JPanel();
JPanel pnl = new JPanel();
JPanel pnl1 = new JPanel();
JPanel pnl2 = new JPanel();
jtadesc.setEditable(false);
try
{
    rs = statement.executeQuery("SELECT * FROM USERS_RECORD");
    while (rs.next())
    {
        liusid.add(rs.getString("USID"));
    }
}
catch (SQLException e)
{
    jtadesc.append("\nSQLException: " + e.getMessage() + "\n");
    jtadesc.append("SQLState: " + e.getSQLState() + "\n");
    jtadesc.append("VendorError: " + e.getErrorCode() + "\n");
}
```

```
    }  
    liusid.addItemListener(new ItemListener() {  
  
        @Override  
        public void itemStateChanged(ItemEvent e) {  
            // TODO Auto-generated method stub  
            try {  
                rs = statement.executeQuery("SELECT *FROM USERS_RECORD  
WHERE USID = "+liusid.getSelectedItemId());  
                rs.next();  
                tfusid.setText(rs.getString("USID"));  
                tfname.setText(rs.getString("NAME"));  
                tfage.setText(rs.getString("AGE"));  
                tfdistrict.setText(rs.getString("DISTRICT"));  
                tfhno.setText(rs.getString("HNO"));  
                tfmandal.setText(rs.getString("MANDAL"));  
                tfphno.setText(rs.getString("PHNO"));  
                tfstreet.setText(rs.getString("STREET"));  
            } catch (SQLException e1) {  
                // TODO Auto-generated catch block  
                jtadesc.append("\nSQLException: " + e1.getMessage() + "\n");  
                jtadesc.append("SQLState: " + e1.getSQLState() + "\n");  
                jtadesc.append("VendorError: " + e1.getErrorCode() + "\n");  
            }  
        }  
    });  
    btnup.addActionListener(new ActionListener() {  
  
        @Override  
        public void actionPerformed(ActionEvent e) {  
            // TODO Auto-generated method stub  
            try {  
                Statement statement = connection.createStatement();  
                int i = statement.executeUpdate("update users_record SET name  
='"+tfname.getText()+"',phno='"+tfphno.getText()+"',usid='"+tfusid.getText()+"  
                '"+tfage.getText()+"', hno  
='"+tfhno.getText()+"',street='"+tfstreet.getText()+"',mandal='"+tfmandal.getText()+"  
                '"+tfdistrict.getText()+"' where usid =  
                '"+liusid.getSelectedItemId()+"");  
                jtadesc.setText(null);  
                jtadesc.append("Updated"+i+"rows sucessfully");  
                liusid.removeAll();  
            }  
        }  
    });  
}
```

```
tfname.setText(null);
tfage.setText(null);
tfdistrict.setText(null);
tfhno.setText(null);
tfmandal.setText(null);
tfphno.setText(null);
tfstreet.setText(null);
tfusid.setText(null);
try
{
    rs = statement.executeQuery("SELECT * FROM
USERS_RECORD");
    while (rs.next())
    {
        liusid.add(rs.getString("USID"));
    }
}
catch (SQLException e3)
{
    jtadesc.append("\nSQLException: " +
e3.getMessage() + "\n");
    jtadesc.append("SQLState: " +
e3.getSQLState() + "\n");
    jtadesc.append("VendorError: " +
e3.getErrorCode() + "\n");
}
} catch (SQLException e1) {
    // TODO Auto-generated catch block
    jtadesc.append("ENTER PHNO AND AGE IN NUMBER FORMAT
ONLY");
    jtadesc.append("\nSQLException: " + e1.getMessage() + "\n");
    jtadesc.append("SQLState: " + e1.getSQLState() + "\n");
    jtadesc.append("VendorError: " + e1.getErrorCode() + "\n");
}
}
});
pnI1.add(liusid);
pnIusid.add(Iusid);
pnIusid.add(tfusid);
pnIusid.setLayout(new FlowLayout());
```

```
pnlname.add(lname);
pnlname.add(tfname);
pnlname.setLayout(new FlowLayout());
pnlage.add(lage);
pnlage.add(tfage);
pnlage.setLayout(new FlowLayout());
pnlhno.add(lhno);
pnlhno.add(tfhno);
pnlhno.setLayout(new FlowLayout());
pnlstreet.add(lstreet);
pnlstreet.add(tfstreet);
pnlstreet.setLayout(new FlowLayout());
pnlmandal.add(lmandal);
pnlmandal.add(tfmandal);
pnlmandal.setLayout(new FlowLayout());
pnldistrict.add(ldistrict);
pnldistrict.add(tfdistrict);
pnldistrict.setLayout(new FlowLayout());

pnlphno.add(lphno);
pnlphno.add(tfphno);
pnlphno.setLayout(new FlowLayout());
pnl.add(pnlusid);
pnl.add(pnlname);
pnl.add(pnlphno);
pnl.add(pnlage);
pnl.add(pnlhno);
pnl.add(pnlstreet);
pnl.add(pnlmandal);
pnl.add(pnldistrict);
pnl2.add(btnup);
pnl2.add(jtadesc);
pnl2.setLayout(new FlowLayout());
pnl1.setLayout(new FlowLayout());
pnl.setLayout(new FlowLayout());
f.getContentPane().setBackground(Color.DARK_GRAY);
f.add(pnl1);
f.add(pnl);
f.add(pnl2);

f.setSize(1500,600);
```

```
        f.setLayout(new FlowLayout());  
        f.setVisible(true);  
  
    }  
  
}
```

DELETE USERS:

```
package users;  
  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;  
import java.awt.event.ItemEvent;  
import java.awt.event.ItemListener;  
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.JPanel;  
import javax.swing.JTextArea;  
import javax.swing.JTextField;  
  
import java.awt.*;  
  
import java.sql.*;  
  
public class delUsers {  
    Connection connection;  
    Statement statement;  
    ResultSet rs;  
    public void connectToDB()  
    {  
        try  
        {  
            connection =  
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","Mahendra","sqlmahi");  
            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 delusers() {  
    try  
    {  
        Class.forName("oracle.jdbc.driver.OracleDriver");  
    }  
    catch (Exception e)  
    {  
        System.err.println("Unable to find and load driver");  
        System.exit(1);  
    }  
    connectToDB();  
    JFrame f = new JFrame();  
    JLabel lname = new JLabel("Name");  
    JLabel lphno = new JLabel("PH.NO");  
    JLabel luserid = new JLabel("User I'D");  
    JLabel lage = new JLabel("AGE");  
    JLabel lhno = new JLabel("H.no");  
    JLabel lstreet = new JLabel("Street");  
    JLabel lmandal = new JLabel("Mandal");  
    JLabel ldist = new JLabel("District");  
    JTextField tfuserid = new JTextField(15);  
    JTextField tfname = new JTextField(15);  
    JTextField tfphno = new JTextField(15);  
    JTextField tfage = new JTextField(15);  
    JTextField tfhno = new JTextField(15);  
    JTextField tfstreet = new JTextField(15);  
    JTextField tfmandal = new JTextField(15);  
    JTextField tfdist = new JTextField(15);  
    List uidlist = new List(10);  
    JButton btndel = new JButton("DELETE");  
    JTextArea jtadesc = new JTextArea(15,55);
```

```
JPanel pnl1 = new JPanel();
JPanel pnl2 = new JPanel();
jtadesc.setEditable(false);

try
{
    rs = statement.executeQuery("SELECT * FROM users_record");
    while (rs.next())
    {
        uidlist.add(rs.getString("USID"));
    }
}
catch (SQLException e)
{
    jtadesc.append("\nSQLException: " + e.getMessage() + "\n");
    jtadesc.append("SQLState:  " + e.getSQLState() + "\n");
    jtadesc.append("VendorError: " + e.getErrorCode() + "\n");
}

uidlist.addItemListener(new ItemListener() {

    @Override
    public void itemStateChanged(ItemEvent e) {
        // TODO Auto-generated method stub
        try {
            rs = statement.executeQuery("select *from users_record");
            while (rs.next())
            {
                if (rs.getString("USID").equals(uidlist.getSelectedItem()))
                    break;
            }
            if (!rs.isAfterLast())
            {
                tfuserid.setText(rs.getString("USID"));
                tfname.setText(rs.getString("NAME"));
                tfphno.setText(rs.getString("PHNO"));
                tfage.setText(rs.getString("AGE"));
                tfhno.setText(rs.getString("HNO"));
                tfstreet.setText(rs.getString("STREET"));
                tfmandal.setText(rs.getString("MANDAL"));
                tfdist.setText(rs.getString("DISTRICT"));
            }
        }
    }
});
```

```
    } catch (SQLException e1) {
        // TODO Auto-generated catch block
        jtadesc.append("\nSQLException: " + e1.getMessage() + "\n");
        jtadesc.append("SQLState:  " + e1.getSQLState() + "\n");
        jtadesc.append("VendorError: " + e1.getErrorCode() + "\n");
    }

}

});

btndel.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 users_record
WHERE USID = "
                                + uidlist.getSelectedItemAt());
            jtadesc.append("\nDeleted"+i+"Rows Sucessfully");
            tfuserid.setText(null);
            tfstreet.setText(null);
            tfphno.setText(null);
            tfname.setText(null);
            tfmandal.setText(null);
            tfhno.setText(null);
            tfdist.setText(null);
            tfage.setText(null);
            uidlist.removeAll();
            try
            {
                rs = statement.executeQuery("SELECT * FROM users_record");
                while (rs.next())
                {
                    uidlist.add(rs.getString("USID"));
                }
            }
            catch (SQLException e3)
            {
                jtadesc.append("\nSQLException: " + e3.getMessage() +
"\n");
            }
        }
    }
});
```

```
"\n");

        }

    } catch (SQLException e5) {
        jtadesc.append("\nSQLException: " + e5.getMessage() + "\n");
        jtadesc.append("SQLState: " + e5.getSQLState() + "\n");
        jtadesc.append("VendorError: " + e5.getErrorCode() + "\n");
    }
}

});

pnl2.add(uidlist);
pnl1.add(lname);
pnl1.add(tfname);
pnl1.add(lphno);
pnl1.add(tfphno);
pnl1.add(luserid);
pnl1.add(tfuserid);
pnl1.add(lage);
pnl1.add(tfage);
pnl1.add(lhno);
pnl1.add(tfhno);
pnl1.add(lstreet);
pnl1.add(tfstreet);
pnl1.add(lmandal);
pnl1.add(tfmandal);
pnl1.add(lidist);
pnl1.add(tfdist);
JPanel pnl3 = new JPanel();
pnl3.add(jtadesc);
JPanel pnl = new JPanel();
pnl.add(btndel);
pnl1.setLayout(new FlowLayout());
pnl.setLayout(new FlowLayout());
pnl3.setLayout(new FlowLayout());
f.getContentPane().setBackground(Color.DARK_GRAY);
f.setSize(1500, 600);
f.add(pnl2);
```

```
f.add(pnl1);  
f.add(pnl);  
f.add(pnl3);  
  
f.setLayout(new FlowLayout());  
f.setVisible(true);  
  
}  
  
}
```

GITHUB LINK:

<https://github.com/Mahendra-Chittupolu/DBMS-MINIPROJECT-cybersecurity->

FOLDER STRUCTURE:

This project contains a folder named src in which it has 9 different folders for different purposes each folder has 3 codes such as to make insert, delete, update. By this we can navigate easily to reach code and also we can make many changes we can want easily.

And also those are named perfectly to be understand easily

Name	Date modified	Type	Size
.settings	11-03-2020 18:40	File folder	
bin	17-04-2020 12:26	File folder	
src	12-03-2020 19:30	File folder	
.classpath	07-04-2020 10:36	CLASSPATH File	1 KB
.project	11-03-2020 18:40	PROJECT File	1 KB
image	14-04-2020 15:08	JPG File	151 KB

actionTaken	12-03-2020 19:42	File folder
complaintsReceived	12-03-2020 19:38	File folder
criminalRecords	12-03-2020 19:43	File folder
cyberCrime	12-03-2020 19:39	File folder
department	12-03-2020 19:41	File folder
launch	11-03-2020 20:01	File folder
monitors	12-03-2020 19:40	File folder
users	12-03-2020 19:37	File folder
view	11-03-2020 19:05	File folder

Testing:

Insert users:

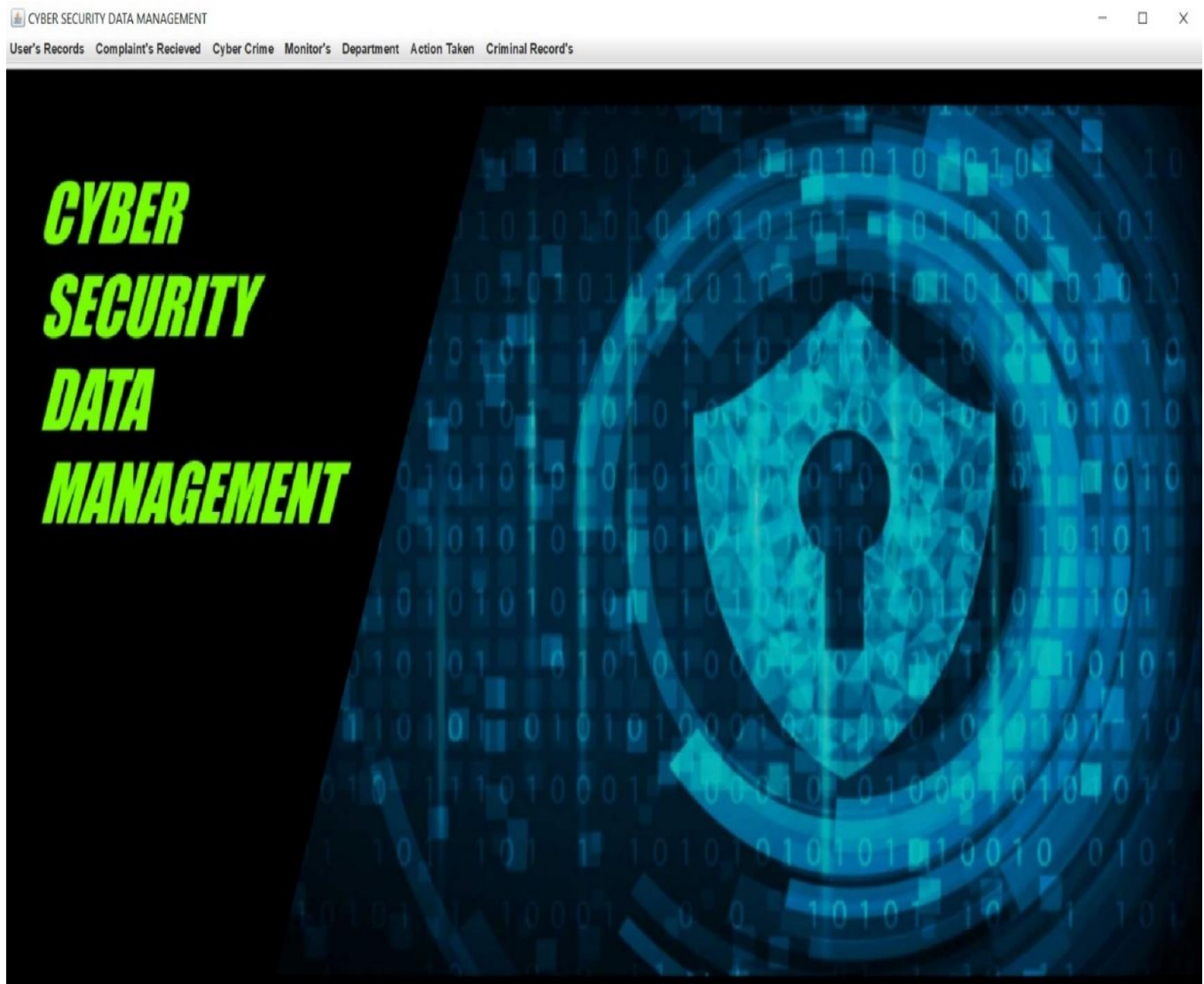
The first screenshot shows the 'Insert User's' form with the following data entered: User id: mahendra, Name: mahdbn, Ph.no: akbd, Age: yvh, H.no: gvcgg, Street: hgc, Mandal: ghfc, District: hg. The 'SUBMIT' button is visible. The second screenshot shows the same form after submission, displaying an error message: 'ENTER phno and age in number format ONLY!!', 'SQLException: ORA-00984: column not allowed here', 'SQLState: 42000', and 'VendorError: 984'.

UPDATE USERS:

The screenshot shows the 'UPDATE USERS' interface. At the top, there is a list of users with the number 15 selected. Below the list, the form displays the details for User id 15: Name: Mahendra.Ch, Ph.no: 944194115K, Age: 20, H.no: 11-115, Street: seetharampuram, Mandal: miryalaguda, District: nalgonda. The 'MODIFY' button is visible. The error message displayed is: 'ENTER PHNO AND AGE IN NUMBER FORMAT ONLY', 'SQLException: ORA-00933: SQL command not properly ended', 'SQLState: 42000', and 'VendorError: 933'.

RESULTS:

HOME UI:



USERS RECORD:

1.INSERT_USERS

Insert User's

User Id Name Ph.no Age H.no Street Mandal District

Insert User's

User Id Name Ph.no Age H.no Street Mandal District

Inserted 1 rows successfully


```
Connected.
SQL> select *from users_record;
```

NAME	PHNO	USID	AGE	HNO
niteesh	6303520640	1	19	1-2/a
nandipahad	miryalaguda	nalagonda		
khushi	9346498993	2	18	12-5-505/17
kantinagar	mehadipatnam	hyderabad		
mohith	6302560420	3	19	12-133/6
krishna colony	miryalaguda	nalgonda		

NAME	PHNO	USID	AGE	HNO
badri	9246897210	4	19	15-155
kailashnagar	devarakonda	nalagonda		
kranthi	9864321102	5	22	12-33/s
donagalguda	moosapet	rangareddy		
Goswami.k	9381340881	6	19	11-121
sitaramnagar	nizambad	nizambad		

NAME	PHNO	USID	AGE	HNO
mahendra	8897110606	15	19	11-115
seetharampuram	miryalaguda	nalgonda		

7 rows selected.

DELETE USERS:

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

Name PH.NO User ID AGE H.No Street Mandal District

1
2
3
4
5
15

Name
PH.NO
User ID
AGE
H.no
Street
Mandal
District

Deleted Rows Successfully

DELETE

```
SQL> select *from users_record;
```

NAME	PHNO	USID	AGE	HNO
niteesh	6303520640	1	19	1-2/a
nandipahad	miryalaguda	nalagonda		
khushi	9346498993	2	18	12-5-505/17
kantinagar	mehadipatnam	hyderabad		
mohith	6302560420	3	19	12-133/6
krishna colony	miryalaguda	nalagonda		

NAME	PHNO	USID	AGE	HNO
badri	9246897210	4	19	15-155
kailashnagar	devarakonda	nalagonda		
kranthi	9864321102	5	22	12-33/s
donagaluda	moosapet	rangareddy		
mahendra	8897110606	15	19	11-115
seetharampuram	miryalaguda	nalagonda		

6 rows selected.

MODIFY USERS:

1
2
3
4
5
15

User id: 15 Name: mahendra Ph.no: 8897110606 Age: 19 H.no: 11-115 Street: seetharampuram Mandal: miryalaguda District: nalgonda

MODIFY

1
2
3
4
5
15

User id: 15 Name: Mahendra.Ch Ph.no: 9441941152 Age: 20 H.no: 11-115 Street: seetharampuram Mandal: miryalaguda District: nalgonda

Updated rows successfully

MODIFY

```
SQL> select *from users_record;
```

NAME	PHNO	USID	AGE	HNO
STREET	MANDAL	DISTRICT		
niteesh nandipahad	6303520640 miryalaguda	1 nalagonda	19	1-2/a
khushi kantinagar	9346498993 mehadipatnam	2 hyderabad	18	12-5-505/17
mohith krishna colony	6302560420 miryalaguda	3 nalgonda	19	12-133/6
badri kailashnagar	9246897210 devarakonda	4 nalagonda	19	15-155
kranthi donagaluda	9864321102 moosapet	5 rangareddy	22	12-33/s
Mahendra.Ch seetharampuram	9441941152 miryalaguda	15 nalgonda	20	11-115

6 rows selected.

CYBER_CRIME:

INSERT_CYBER:

Inserted 1Queries Sucessfully

CID

Location

Category


```
6 rows selected.

SQL> select *from cyber_crime;

CID      LOCATION      CATEGORY
-----
1        asif nagar    banking
2        asif nagar    hospitals
3        cyberabad     mobile
4        lbnagar       mobile
5        secundrabad   mobile_data
15       jb            h

6 rows selected.
```

DELETE USERS:



```
SQL> select *from cyber_crime;
```

CID	LOCATION	CATEGORY
1	asif nagar	banking
2	asif nagar	hospitals
3	cyberabad	mobile
4	lbnagar	mobile
5	secundrabad	mobile_data
25	malakpet	mobiletheft

6 rows selected.

MODIFY CYBERCRIME:

Updated rows successfully

CID: 25 location: shadnagar Category: mobiletheft

```
SQL> select *from cyber_crime;
```

CID	LOCATION	CATEGORY
1	asif nagar	banking
2	asif nagar	hospitals
3	cyberabad	mobile
4	lbnagar	mobile
5	secundrabad	mobile_data
25	shadnagar	mobiletheft

6 rows selected.

EXIT:



DISCUSSIONS and FUTURE WORK:

After this mini project “CYBER CRIME DATA MANAGEMENT” I want to do a project based on android like implementing this work in an android app which makes us to use more freely entering data. And also we can sync this to cloud and can keep passcode for security and ease of access data .

I want to work on many ideations projects. Like swayam and some other colleges hackathons .

We can make more use of artificial intelligence and machine learning so I want to make a project based on them which is useful to mankind in many ways . people now a days are facing many issues on crimes related to cyber so I want to make a better place for people to use every app in a better and a easy way to provide secure access to internet in these days

I will work to increase their faith on internet by and try to reduce cyber crimes.

REFERENCES:

- <https://docs.oracle.com/javase/7/docs/api/>
- <https://www.javatpoint.com/dbms-tutorial>
- https://en.wikipedia.org/wiki/Computer_security
- DATA SYSTEM CONCEPTS BY: Henry F korth.
- DATA MANAGEMENT SYSTEMS BY: Raghu Ramakrishna.