*Informatics  
PRACTICES*

*PROJECT*

***SHREY GUPTA***

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Certificate

THIS IS TO CERTIFY THAT ***SHREY GUPTA*** OF CLASS ***XII-A*** HAS WORKED UNDER MY SUPERVISION ON PROJECT ***‘DELHI JAL BOARD WATER BILLING SYSTEM’*** AND COMPLETED IT TO MY FULL SATIFICATION.

I WISH HIM SUCCESS IN LIFE.

Ms. CHARU BANGA

THE SRIJAN SCHOOL

Acknowledgement

WE ARE THANKFUL TO OUR I.P. TEACHER **Ms. CHARU BANGA** WHO HELPED AND GUIDED ME WHILE MAKING THIS PROJECT. I WOULD ALSO LIKE TO THANK COMPUTER DEPARTMENT OF OUR SCHOOL WHO HELPED AND GAVE ME TIME FOR COMPLECTION OF MY PROJECT.

SHREY GUPTA

XII

INTRODUCTION

**DELHI JAL BOARD WATER BILLING SYSTEM**

This project has been made for storing water billing records like bill number, meter number, consumer name , no of units consumed etc. It contains addition, modification, deletion and searching of bills, generating of bills as per requirement of the user. Database and table are being created in MySql [back end] software. Frames are operated from Java and data is stored in MySql.

AIM

The main aim of my project is to create water bill as per entered units consumed by the user/consumer. It helps to store the records of consumers in particular table and these records can be easily accessed by the person in fast manner.

*MERITS*

1. *Any record can be easily accessed.*
2. *Bill can be generated as per entered bill number and bill number is settled Records can be stored in fast manner.*
3. *As primary key in the table so that no duplicate entry can be made in the table.*

DE-MERITS

1. *Due to failure of electricity, no work can be processed.*
2. *Bills are not categorized as per area.*
3. *Bills are not having arrears amt.*

Conclusion

***“Delhi Jal Board Bill Generating System****” has been prepared to reduce manual work and with the help of this project every work is being processed through tables and frames.*

TABLE STRUCTURE FOR WATER

|  |  |
| --- | --- |
| **Field** | **Datatype** |
| bno | int(5) PRIMARY KEY |
| mno | int(8) |
| Cname | varchar(20) |
| addr | varchar(40) |
| phone | int(12) |
| pread | int(7) |
| cread | int(7) |
| unit | int(5) |
| amt | int(7) |

CODING OF PROJECT

***Firstscreen.java***

private void btnnextActionPerformed(java.awt.event.ActionEvent evt)

{

new mainmenu().setVisible(true);

}

***Coding of project***

***Delhi Jal Board Billing System***

***Mainmenu.java***

private void btnaddActionPerformed(java.awt.event.ActionEvent evt)

{

new addcust().setVisible(true);

}

private void btnupdateActionPerformed(java.awt.event.ActionEvent evt)

{

new modcust().setVisible(true);

}

private void btnadd2ActionPerformed(java.awt.event.ActionEvent evt)

{

new delcust().setVisible(true);

}

private void btnadd3ActionPerformed(java.awt.event.ActionEvent evt)

{

new genbill().setVisible(true);

}

**Addition of records**

**Addcust.java**

import java.sql.\*;

import javax.swing.JOptionPane;

private void btnnewActionPerformed(java.awt.event.ActionEvent evt)

{

txtbno.setText(" ");

txtmno.setText(" ");

txtcname.setText(" ");

txtadd.setText(" ");

txtph.setText(" ");

txtpread.setText(" ");

txtcread.setText(" ");

txtunit.setText(" ");

txtamt.setText(" ");

}

private void btnbackActionPerformed(java.awt.event.ActionEvent evt)

{

new mainmenu().setVisible(true);

}

private void btnsaveActionPerformed(java.awt.event.ActionEvent evt)

{

try

{

Class.forName("java.sql.Driver");

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/jal","root","1");

//String query="Insert into water values("+txtbno.getText()+txtmno.getText()+"'"+txtcname.getText()+"'"+"'"+txtadd.getText()+"'"+txtph.getText()+txtpread.getText()+txtcread.getText()+txtunit.getText()+txtamt.getText()+");";

String query = "INSERT INTO water VALUES (";

query = query + txtbno.getText() + ", ";

query = query + txtmno.getText() + ", ";

query = query + "'" + txtcname.getText() + "', ";

query = query + "'"+txtadd.getText() + "', ";

query = query + txtph.getText() + ", ";

query = query + txtpread.getText() + ", ";

query = query + txtcread.getText() + ", ";

query = query + txtunit.getText() +", ";

query=query+ txtamt.getText() +");";

Statement stmt=con.createStatement();

stmt.executeUpdate(query);

JOptionPane.showMessageDialog(null,"Saved Successfully");

stmt.close();

con.close();

}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,"Error in Connectivity");

}

}

private void txtcreadFocusLost(java.awt.event.FocusEvent evt)

{

long res;

res=Long.parseLong(txtcread.getText())-Long.parseLong(txtpread.getText());

txtunit.setText(""+res);

long r;

r=res\*2;

txtamt.setText(""+r);

}

**Modify Customers**

**Modcust.java**

import java.sql.\*;

import javax.swing.JOptionPane;

private void txtcreadFocusLost(java.awt.event.FocusEvent evt)

{

long res;

res=Long.parseLong(txtcread.getText())-Long.parseLong(txtpread.getText());

txtunit.setText(""+res);

long r;

r=res\*2;

txtamt.setText(""+r);

}

private void btnnewActionPerformed(java.awt.event.ActionEvent evt)

{

txtbno.setText(" ");

txtmno.setText(" ");

txtcname.setText(" ");

txtadd.setText(" ");

txtph.setText(" ");

txtpread.setText(" ");

txtcread.setText(" ");

txtunit.setText(" ");

txtamt.setText(" ");

}

private void btnbackActionPerformed(java.awt.event.ActionEvent evt)

{

new mainmenu().setVisible(true);

}

private void btnsearchActionPerformed(java.awt.event.ActionEvent evt)

{

try

{ Class.forName("java.sql.Driver");

Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/jal","root","1");

Statement stmt =con.createStatement();

String query = "SELECT \* FROM water WHERE bno = ";

query = query + txtbno.getText() + ";";

ResultSet rs = stmt.executeQuery(query);

int mn1;

long phone1,pread1,cread1,unit1,amt1;

String cname1,addr1;

if (rs.next())

{

mn1 = rs.getInt("mno");

cname1 = rs.getString("cname");

addr1=rs.getString("addr");

phone1=rs.getLong("phone");

pread1=rs.getLong("pread");

cread1=rs.getLong("cread");

unit1=rs.getLong("unit");

amt1=rs.getLong("amt");

txtmno.setText(" "+mn1);

txtcname.setText(cname1);

txtadd.setText(addr1);

txtph.setText(" "+phone1);

txtpread.setText(" "+pread1);

txtcread.setText(" "+cread1);

txtunit.setText(" "+unit1);

txtamt.setText(" "+amt1);

}

else

{

txtbno.setText(" ");

txtmno.setText(" ");

txtcname.setText(" ");

txtadd.setText(" ");

txtph.setText(" ");

txtpread.setText(" ");

txtcread.setText(" ");

txtunit.setText(" ");

txtamt.setText(" ");

JOptionPane.showMessageDialog(null, "No such record found");

}

} //end of try

catch(Exception e)

{ JOptionPane.showMessageDialog(null, "Error in connectivity");

}

}

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

// TODO add your handling code here:

int ans;

String query;

ans = JOptionPane.showConfirmDialog(null, "Surely wants to update the record");

if(ans == JOptionPane.YES\_OPTION)

{

try

{

Class.forName("java.sql.Driver");

Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/jal","root","1");

Statement stmt =con.createStatement();

{ query = "UPDATE water SET cname = " + "'" + txtcname.getText() + "'";

query = query + ", addr = " + "'" + txtadd.getText() + "'";

query=query+", mno = "+ txtmno.getText()+",";

query=query+ "phone="+txtph.getText()+",";

query=query+ "pread="+txtpread.getText()+",";

query=query+ "cread="+txtcread.getText()+",";

query=query+ "unit="+txtunit.getText()+",";

query=query+ "amt="+txtamt.getText();

query = query + " WHERE bno= " + txtbno.getText() + ";";

stmt.executeUpdate(query);

JOptionPane.showMessageDialog(null, "Record successfully updated");

} //end of try

}

catch(Exception e)

{ JOptionPane.showMessageDialog(null, "Error in updation");

}

} //end of if

}

**Deletion Records of customers**

**Delcust.java**

import java.sql.\*;

import javax.swing.JOptionPane;

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

// TODO add your handling code here:

try {

Class.forName("java.sql.Driver");

Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/jal","root","1");

Statement stmt =con.createStatement();

String query = "SELECT \* FROM water WHERE bno = ";

query = query + txtbno.getText() + ";";

ResultSet rs = stmt.executeQuery(query);

int mn1;

long phone1,pread1,cread1,unit1,amt1;

String cname1,addr1;

if (rs.next()) {

mn1 = rs.getInt("mno");

cname1 = rs.getString("cname");

addr1=rs.getString("addr");

phone1=rs.getLong("phone");

pread1=rs.getLong("pread");

cread1=rs.getLong("cread");

unit1=rs.getLong("unit");

amt1=rs.getLong("amt");

txtmno.setText(" "+mn1);

txtcname.setText(cname1);

txtadd.setText(addr1);

txtph.setText(" "+phone1);

txtpread.setText(" "+pread1);

txtcread.setText(" "+cread1);

txtunit.setText(" "+unit1);

txtamt.setText(" "+amt1);

}

else

{

txtbno.setText(" ");

txtmno.setText(" ");

txtcname.setText(" ");

txtadd.setText(" ");

txtph.setText(" ");

txtpread.setText(" ");

txtcread.setText(" ");

txtunit.setText(" ");

txtamt.setText(" ");

JOptionPane.showMessageDialog(null, "No such record found");

}

} //end of try

catch(Exception e) {

JOptionPane.showMessageDialog(null, "Error in connectivity");

}

}

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

// TODO add your handling code here:

int ans;

String query;

ans = JOptionPane.showConfirmDialog(null, "Surely wants to delete the record");

if(ans == JOptionPane.YES\_OPTION) {

try {

Class.forName("java.sql.Driver");

Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/jal","root","1");

Statement stmt =con.createStatement();

{query = "DELETE FROM water WHERE bno = ";

query = query + txtbno.getText() + ";";

stmt.executeUpdate(query);

JOptionPane.showMessageDialog(null, "Record successfully deleted");

} //end of try

} catch(Exception e) {

JOptionPane.showMessageDialog(null, "Error in updation");

}

} //end of if

}

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

// TODO add your handling code here:

new mainmenu().setVisible(true);

}

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

// TODO add your handling code here:

txtbno.setText(" ");

txtmno.setText(" ");

txtcname.setText(" ");

txtadd.setText(" ");

txtph.setText(" ");

txtpread.setText(" ");

txtcread.setText(" ");

txtunit.setText(" ");

txtamt.setText(" ");

}

**Generating Bill**

**Genbill.java**

import java.sql.\*;

import javax.swing.JOptionPane;

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

// TODO add your handling code here:

try {

Class.forName("java.sql.Driver");

Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/jal","root","1");

Statement stmt =con.createStatement();

String query = "SELECT \* FROM water WHERE bno = ";

query = query + txtbno.getText() + ";";

ResultSet rs = stmt.executeQuery(query);

int mn1;

long phone1,pread1,cread1,unit1,amt1;

String cname1,addr1;

if (rs.next()) {

mn1 = rs.getInt("mno");

cname1 = rs.getString("cname");

addr1=rs.getString("addr");

phone1=rs.getLong("phone");

pread1=rs.getLong("pread");

cread1=rs.getLong("cread");

unit1=rs.getLong("unit");

amt1=rs.getLong("amt");

lblmno.setText(" "+mn1);

lblcname.setText(cname1);

lbladdr.setText(addr1);

lblphone.setText(" "+phone1);

lblpread.setText(" "+pread1);

lblcread.setText(" "+cread1);

lblunit.setText(" "+unit1);

lblamt.setText(" "+amt1);

}

else

{

txtbno.setText(" ");

lblmno.setText(" ");

lblcname.setText(" ");

lbladdr.setText(" ");

lblphone.setText(" ");

lblpread.setText(" ");

lblcread.setText(" ");

lblunit.setText(" ");

lblamt.setText(" ");

JOptionPane.showMessageDialog(null, "No such record found");

}

} //end of try

catch(Exception e) {

JOptionPane.showMessageDialog(null, "Error in connectivity");

}

}

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

// TODO add your handling code here:

new mainmenu().setVisible(true);

}

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

// TODO add your handling code here:

txtbno.setText(" ");

lblmno.setText(" ");

lblcname.setText(" ");

lbladdr.setText(" ");

lblphone.setText(" ");

lblpread.setText(" ");

lblcread.setText(" ");

lblunit.setText(" ");

lblamt.setText(" ");

}

Outputs of Running Project



















