**ABSTRACT**

A Student Database Management System is an environment that manages all the data of students who are studying in an educational institution. This data is computerized through an automated system. Here, computerization is more advantageous than the usual method. Thus, a student database management system offers many benefits to an educational institution. It allows teachers to easily change and access student data.

This project is useful for easy user interface. The system uses the powerful database management system, data retrieval and data manipulation. This project provides more ease for managing the data than manually maintaining the data. Hence it saves a lot of time. So we can say that the project is useful for saving our valuable time

**IMPLEMENTATION**

The aim is to automate the existing manual system by the help of computerized equipments and full fledged computer software, fulfilling their requirements, so that their valuable data /information can be stored for a longer period with easy accessing and manipulation of the same. Basically the project describes how to manage for good performance and better services for the clients.

Student Database Management system, as described above, can lead to error free , secure, reliable and fast management system. It can assist the user to concentrate on other activities rather than record keeping. Thus, it will help organization in better utilization of resources.

The Student Database Management system provides the following functionalities:

* Login with username and password
  + - * Enter the specified details
      * Insert the given details
      * Update the data by changing the password
      * Delete the data

**SOURCE CODE:**

import java.sql.\*;

import java.sql.DriverManager;

import javax.swing.Action;

import static javax.swing.JOptionPane.showMessageDialog;

import javax.swing.JPanel;

public class login extends javax.swing.JFrame

{

Connection conn = null;

Statement stmt;

public void connectdb() {

try

{

String dbURL=

“jdbc:sqlserver://RCSE151\\sqlserver:1433;databaseName=063”;

String user=”sa”;

String pass=”password”;

conn = DriverManager.getConnection(dbURL,user, pass);

if (conn != null) {

DatabaseMetaData dm = (DatabaseMetaData) conn.getMetaData();

}

}

catch (SQLException ex)

{

ex.printStackTrace();

}

}

public login() {

initComponents();

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

try {

Connectdb();

Stmt = conn.createStatement();

String sql = “insert into dbo.N123 values (‘” + jTextField2.getText() + “’,’” + jpasswordField1.getText() + “’,’” + jTextField3.getText() + “’,’” + jTextField4.getText() + “’,’” + jTextField5.getText() + “’,’” + jTextField6.getText() + “’)”;

stmt.executeUpdate(sql);

showMessageDialog(null,”SUCCESSFULLY INSERTED DATA!!!”);

}

catch (SQLException ex) {

ex.printStackTrace();

}}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

try{

connectdb();

stmt = conn.createStatement();

String sql = “update dbo.N123 “ + “set password = ‘”+jpasswordField1.getText()+”’ where username=’”+jTextField2.getText()+”’ “;

stmt.executeUpdate(sql);

showMessageDialog(null, “SUCCESSFULLY UPDATED DATA!!!”);

}

catch(SQLException ex){

ex.printStackTrace();

}

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

try{

connectdb();

stmt = conn.createStatement();

String sql = “delete from dbo.N123 where RollNumber =’”+jTextField6.getText()+”’ “;

stmt.executeUpdate(sql);

showMessageDialog(null, “SUCCESSFULLY DELETED DATA!!!”);

}

catch(SQLException ex){

ex.printStackTrace();

}}

public static void main(String args[])

{

Java.awt.EventQueue.invokeLater(new Runnable() {

@Override

Public void run() {

New login().setVisible(true);

}

});

}