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STUDENT MARKSHEET GENERATOR

ABSTRACT

Keeping the Student Academic records to simplify the work of faculty members of a particular organization, the Marksheet Generator is one of the software which mainly used for generating marksheets for students. It consists of two logins: Teacher login and Student login.

The project is designed in Java. This proposal aims at developing and designing a system by providing a much simpler, easy to understand interface to handle student marks scored by a student in examination.

The subject teacher will enter the marks using teacher login whereas software will generate the marksheet by integrating all the marks inserted by teachers of different subjects, and also calculate the percentage based on the marks obtained by the student.

The MARKSHEET GENERATOR Management can be used in colleges by students to view their Results anytime using Student login. The proposed system

accesses the students marks from database of different subjects and generates the marksheet.

PROBLEM DEFINITION

MARKSHEET GENERATOR is a program that enables a computer to perform a specific task, as opposed to the physical components of the system (hardware). ... MARKSHEET GENERATOR has to be "loaded" into the computer's storage (such as a hard drive, memory, or RAM). Once the software is loaded, the teachers can be able to insert marks conveniently of respective student of particular subject and software can generate marksheet easily.

CODE :

DBCONNECTION

```
package Marks;
import java.sql.*;
public class DBConnection {
	Connection con;
	PreparedStatement ps;
	Statement st;
	ResultSet rs;
	String s;
public DBConnection() throws Exception {

Class.forName("oracle.jdbc.driver.OracleDriver"
);
		con =
DriverManager.getConnection("jdbc:oracle:thin:
@localhost:1521:xe", "system", "system");
	}

	public int checkstudentlogin(int id, String
password) throws Exception {
		ps = con.prepareStatement("select
password from student where userid=?");
		ps.setInt(1, id);
		rs = ps.executeQuery();
		while (rs.next()) {
			if
(password.equals(rs.getString(1))) {
				return id;
			} else {
				return 0;
			}
		}
		return 0;
	}

	public String getTeacher(String userid)
throws SQLException {

		ps = con.prepareStatement("select
name from teacher where subject=?");
```

```
            ps.setString(1, userid);
            rs = ps.executeQuery();
            while (rs.next()) {
                return rs.getString(1);
            }
            return null;
        }
        public String checkteacherlogin(int id, String password) throws Exception {
            ps = con.prepareStatement("select password, subject from teacher where userid=?");
            ps.setInt(1, id);
            rs = ps.executeQuery();
            while (rs.next()) {
                if (password.equals(rs.getString(1))) {
                    return rs.getString(2);
                } else {
                    return null;
                }
            }
            return null;
        }

        public ResultSet select() throws Exception {
            st = con.createStatement();
            rs = st.executeQuery("select userid from student");

            return rs;
        }
```

MarksEntry.java

```
package Marks;

    import java.awt.*;
    import static java.awt.Font.ITALIC;
    import java.awt.event.ActionEvent;
    import java.awt.event.ActionListener;
    import java.sql.ResultSet;
    import java.sql.SQLException;
    import javax.swing.*;

    public class MarksEntry {

        JFrame jf2;
        JTextField t1, t2, t3, t4, t5;
        JLabel l, l1, l2, l3, l4, l5;
        JButton b1, b2;
        Font f;

        MarksEntry() {
```

```
        public void update(String subject, int id, int mks) throws SQLException {
            st = con.createStatement();
            st.executeQuery("update student set " + subject + " = " + mks + " where userid= " + id);
            ps = con.prepareStatement("update student set Maths=? where userid=?");
        }
        public Student generatemarksheet(int userid) throws SQLException {
            Student obj = new Student();
            String s = "Select * from student where userid=?";
            ps = con.prepareStatement(s);
            ps.setInt(1, userid);
            rs = ps.executeQuery();
            while (rs.next()) {
                obj.setName(rs.getString(1));
                obj.setUserid(rs.getInt(2));
                obj.setJava(rs.getInt(4));
                obj.setDs(rs.getInt(5));
                obj.setMaths(rs.getInt(6));
            }
            obj.setTotal(obj.getDs() + obj.getJava() + obj.getMaths());
            String s2 = "update student set total=?where userid=?";
            ps = con.prepareStatement(s2);
            ps.setInt(1, obj.getTotal());
            ps.setInt(2, userid);
            rs = ps.executeQuery();

            return obj;}

            jf2 = new JFrame("Marks Entry");
            t1 = new JTextField();
            t2 = new JTextField();
            t3 = new JTextField();
            t4 = new JTextField();
            t5 = new JTextField();

            l = new JLabel();
            l1 = new JLabel();
            l2 = new JLabel();
            l3 = new JLabel();
            l4 = new JLabel();
            l5 = new JLabel();

            b1 = new JButton("Submit");
            b2 = new JButton("Reset");

            jf2.add(t1);
            jf2.add(t2);
            jf2.add(t3);
            jf2.add(t4);
```

```
            jf2.add(t5);
            jf2.add(l);
            jf2.add(l1);
            jf2.add(l2);
            jf2.add(l3);
            jf2.add(l4);
            jf2.add(l5);
            jf2.add(b1);
            jf2.add(b2);

            jf2.setSize(500, 400);
            jf2.setLayout(null);

            jf2.setVisible(true);

jf2.setDefaultCloseOperation(JFrame.EXIT_ON_
CLOSE);

            f = new Font("Serif", ITALIC, 15);
            l.setFont(f);
        }

        public void set(String subject) throws
Exception {
            DBConnection c = new
DBConnection();
            int nos[] = new int[5];
            ResultSet rst = c.select();
            int i = 0;
            while (rst.next()) {
                nos[i++] = rst.getInt(1);
            }
            String tr = c.getTeacher(subject);
            l.setText("Welcome " + tr + "!
Enter marks for " + subject);
            l1.setText(String.valueOf(nos[0]) +
":");
            l2.setText(String.valueOf(nos[1]) +
":");
            l3.setText(String.valueOf(nos[2]) +
":");
            l4.setText(String.valueOf(nos[3]) +
":");
            l5.setText(String.valueOf(nos[4]) +
":");

            l.setBounds(100, 20, 300, 20);
            l1.setBounds(140, 60, 100, 20);
            l2.setBounds(140, 100, 100, 20);
            l3.setBounds(140, 140, 100, 20);
            l4.setBounds(140, 180, 100, 20);
            l5.setBounds(140, 220, 100, 20);

            t1.setBounds(240, 60, 100, 20);
            t2.setBounds(240, 100, 100, 20);
            t3.setBounds(240, 140, 100, 20);
            t4.setBounds(240, 180, 100, 20);
            t5.setBounds(240, 220, 100, 20);

            b1.setBounds(120, 270, 80, 20);
            b2.setBounds(220, 270, 80, 20);

            b1.addActionListener((ActionEvent
ae) -> {
                try {
                    c.update(subject, nos[0],
Integer.parseInt(t1.getText()));
                    c.update(subject, nos[1],
Integer.parseInt(t2.getText()));
                    c.update(subject, nos[2],
Integer.parseInt(t3.getText()));
                    c.update(subject, nos[3],
Integer.parseInt(t4.getText()));
                    c.update(subject, nos[4],
Integer.parseInt(t5.getText()));


JOptionPane.showMessageDialog(jf2, "Data
inserted successfully!");
                    jf2.dispose();
                } catch (HeadlessException |
NumberFormatException | SQLException ex) {

System.out.println(ex.toString());
                }
            });

            b2.addActionListener((ActionEvent
ae) -> {
                t1.setText("");
                t2.setText("");
                t3.setText("");
                t4.setText("");
                t5.setText("");
            });
        }}
```

STUDENTLOGIN.java

```
package Marks;

import java.awt.*;
import java.awt.event.*;
import javax.swing.*;

public class StudentLogin {

    JFrame jf2;
    JTextField t1;
    JPasswordField t2;
    JLabel l, l1, l2;
    JButton b1, b2;
      Font f;

    public StudentLogin() {
        jf2 = new JFrame("Student
Login");
        t1 = new JTextField();
        t2 = new JPasswordField();

        l = new JLabel("Credentials: ");
        l1 = new JLabel("UserID:");
        l2 = new JLabel("Password:");

        b1 = new JButton("Generate: ");
        b2 = new JButton("Reset");

        jf2.add(t1);
        jf2.add(t2);
```

```
                jf2.add(l);
                jf2.add(l1);
                jf2.add(l2);

                jf2.add(b1);
                jf2.add(b2);

                jf2.setSize(500, 400);
                jf2.setLayout(null);

                jf2.setVisible(true);

jf2.setDefaultCloseOperation(JFrame.EXIT_ON_
CLOSE);

        }

        public void set() {
            l.setBounds(150, 20, 150, 20);
            l1.setBounds(100, 60, 100, 20);
            l2.setBounds(100, 100, 100, 20);

            t1.setBounds(240, 60, 100, 20);
            t2.setBounds(240, 100, 100, 20);

            b1.setBounds(120, 200, 80, 20);
            b2.setBounds(220, 200, 80, 20);


b1.addActionListener((ActionEvent ae) -> {
                    try {
                        DBConnection co =
new DBConnection();
                        int check =
co.checkstudentlogin(Integer.parseInt(t1.getTex
t()), t2.getText());
                        if (check != 0) {

JOptionPane.showMessageDialog(jf2, "Login
Successful!");
                            //jf2.dispose();

                            Marksheet r =
new Marksheet();

System.out.println(check);
                            r.set(check);
                            jf2.dispose();
                        }
                    } catch (Exception ex) {
                    }
                });


b2.addActionListener((ActionEvent ae) -> {
                    t1.setText("");
                    t2.setText("");
                });
        }

        public String getName() {
            return t1.getText();
        }

        public String getLocation() {
            return t2.getText();
        }
    }
```

TEACHERLOGIN.java

```
package Marks;

import java.awt.*;
import java.awt.event.*;
import javax.swing.*;

public class TeacherLogin {

    JFrame jf2;
    JTextField t1;
    JPasswordField t2;
    JLabel l, l1, l2;
    JButton b1, b2;
    Font f;

    TeacherLogin() {
        jf2 = new JFrame("Teacher
Login");
        t1 = new JTextField();
        t2 = new JPasswordField();

        l = new JLabel("Please sign in: ");
        l1 = new JLabel("UserID:");
        l2 = new JLabel("Password:");

        b1 = new JButton("Login");
        b2 = new JButton("Reset");

        jf2.add(t1);
        jf2.add(t2);

        jf2.add(l);
        jf2.add(l1);
        jf2.add(l2);

        jf2.add(b1);
        jf2.add(b2);

        jf2.setSize(500, 300);
        jf2.setLayout(null);

        jf2.setVisible(true);

jf2.setDefaultCloseOperation(JFrame.EXIT_ON_
CLOSE);

    }

    public void set() {
```

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```
                l.setBounds(100, 20, 150, 20);
                l1.setBounds(100, 60, 100, 20);
                l2.setBounds(100, 100, 100, 20);

                t1.setBounds(240, 60, 100, 20);
                t2.setBounds(240, 100, 100, 20);

                b1.setBounds(120, 200, 80, 20);
                b2.setBounds(220, 200, 80, 20);


b1.addActionListener((ActionEvent ae) -> {
                        try {
                                DBConnection co = new DBConnection();
                                String check = co.checkteacherlogin(Integer.parseInt(t1.getText()), t2.getText());
                                if (check != null) {

JOptionPane.showMessageDialog(jf2, "Login Successful!");

                                        MarksEntry r = new MarksEntry();
```

STUDENT.java

```
        package Marks;
public class Student {

                private String name;
                private int userid;
                private int java;
                private int ds;
                private int maths;
                private int total;

                public String getName() {
                        return name;
                }

                public void setName(String name) {
                        this.name = name;
                }

                public int getUserid() {
                        return userid;
                }

                public void setUserid(int userid) {
                        this.userid = userid;
                }

                public int getJava() {
                        return java;
                }

                public void setJava(int java) {
                        this.java = java;
                }
```

```
System.out.println(check);
                                        r.set(check);
                                        jf2.dispose();
                                } else {

JOptionPane.showMessageDialog(jf2, "Login UNSuccessful!");
                                }
                        } catch (Exception ex) {

JOptionPane.showMessageDialog(jf2, ex.toString());
                        }
                });


b2.addActionListener((ActionEvent ae) -> {
                        t1.setText("");
                        t2.setText("");
                });
        }
    }
```

```
                public int getDs() {
                        return ds;
                }

                public void setDs(int ds) {
                        this.ds = ds;
                }

                public int getMaths() {
                        return maths;
                }

                public void setMaths(int maths) {
                        this.maths = maths;
                }

                public int getTotal() {
                        return total;
                }

                public void setTotal(int total) {
                        this.total = total;
                }}
```

Marksheet.java

```
package Marks;
import java.awt.*;
import static java.awt.Font.ITALIC;
import java.awt.event.ActionEvent;
import javax.swing.*;

public class Marksheet {
```

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```
        JFrame jf2;
        JLabel t1, t2, t3, t4, t5;
        JLabel l, l1, l2, l3, l4, l5;
        JButton b1, b2;
        Font f;

        Marksheet() {
            jf2 = new JFrame("MARKSHEET");
            t1 = new JLabel();
            t2 = new JLabel();
            t3 = new JLabel();
            t4 = new JLabel();
            t5 = new JLabel();

            l = new JLabel("PERSONAL
DETAILS:");
            l1 = new JLabel("Name:");
            l2 = new JLabel("Location:");
            l3 = new JLabel("Date of Birth:");
            l4 = new JLabel("Mobile No:");
            l5 = new JLabel("Email ID:");

            b1 = new JButton("OK");

            jf2.add(t1);
            jf2.add(t2);
            jf2.add(t3);
            jf2.add(t4);
            jf2.add(t5);
            jf2.add(l);
            jf2.add(l1);
            jf2.add(l2);
            jf2.add(l3);
            jf2.add(l4);
            jf2.add(l5);
            jf2.add(b1);

            jf2.setSize(500, 400);
            jf2.setLayout(null);

            jf2.setVisible(true);

jf2.setDefaultCloseOperation(JFrame.EXIT_ON_
CLOSE);

            f = new Font("Serif", ITALIC, 15);
            l.setFont(f);
        }

        public void set(int id) throws
Exception {
            DBConnection c = new
DBConnection();
            Student k =
c.generatemarksheet(id);
            l.setText("Name: " + k.getName()
+ "                                    ID: " +
id);
        l1.setText("Java:");
        l2.setText("DS:");
        l3.setText("Maths:");
        l4.setText("Total:");
        l5.setText("Percentage:");

        l.setBounds(100, 20, 300, 20);
        l1.setBounds(140, 60, 100, 20);
        l2.setBounds(140, 100, 100, 20);
        l3.setBounds(140, 140, 100, 20);
        l4.setBounds(140, 180, 100, 20);
        l5.setBounds(140, 220, 100, 20);

        t1.setBounds(240, 60, 100, 20);
        t2.setBounds(240, 100, 100, 20);
        t3.setBounds(240, 140, 100, 20);
        t4.setBounds(240, 180, 100, 20);
        t5.setBounds(240, 220, 100, 20);

        b1.setBounds(120, 270, 80, 20);


t1.setText(String.valueOf(k.getJava()));

t2.setText(String.valueOf(k.getDs()));

t3.setText(String.valueOf(k.getMaths()));

t4.setText(String.valueOf(k.getTotal()));

t5.setText(String.valueOf(k.getTotal() / 3));


b1.addActionListener((ActionEvent e) -> {
                jf2.dispose();
            });
        }
    }
```

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Outputs:

```
Microsoft Windows [Version 10.0.16299.192]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\huzaifa>sqlplus / as sysdba

SQL*Plus: Release 11.2.0.2.0 Production on Sat Nov 10 11:53:36 2018

Copyright (c) 1982, 2014, Oracle.  All rights reserved.


Connected to:
Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Production

SQL> connect
Enter user-name: system
Enter password:
Connected.
SQL>
```

```
SQL> select * from teacher;

NAME                SUBJECT                 USERID   PASSWORD
------------------- ------------------- ---------- ----------
Chitra              Java                        11         11
Ranjit              DS                          12         11
Divyesh             Maths                       13         11

SQL> select * from student;

NAME                    USERID   PASSWORD       JAVA         DS      MATHS
------------------- ---------- ---------- ---------- ---------- ----------
     TOTAL
----------
Kunjal                      48         11         80         76         45
       208

Huzaifa                     22         11         75         65         34
       190

Bob                         12         11         65         87         65
```

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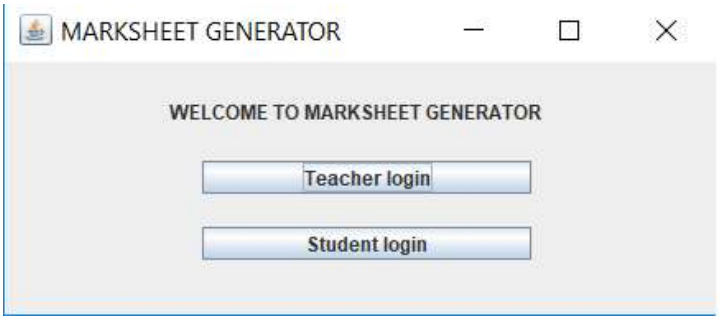

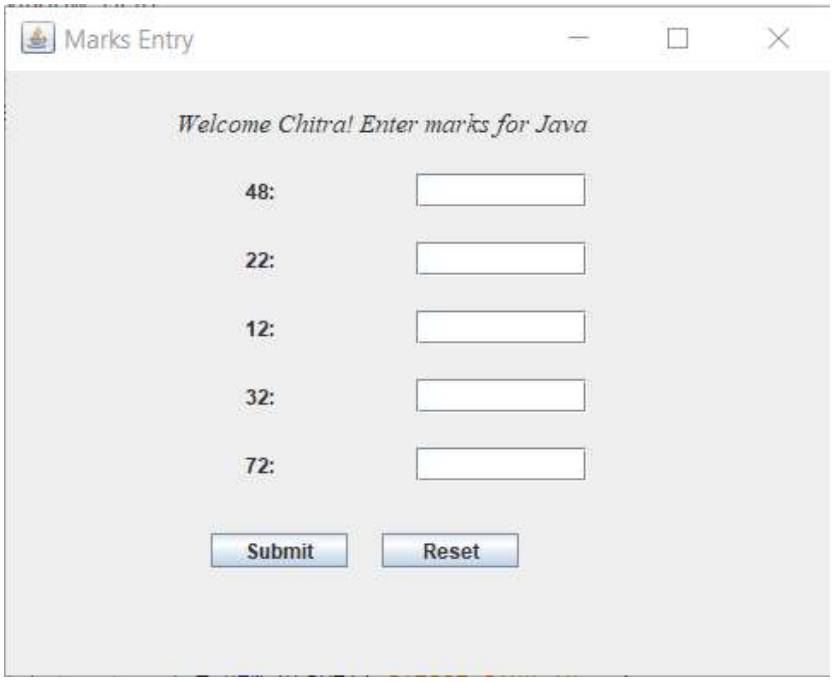

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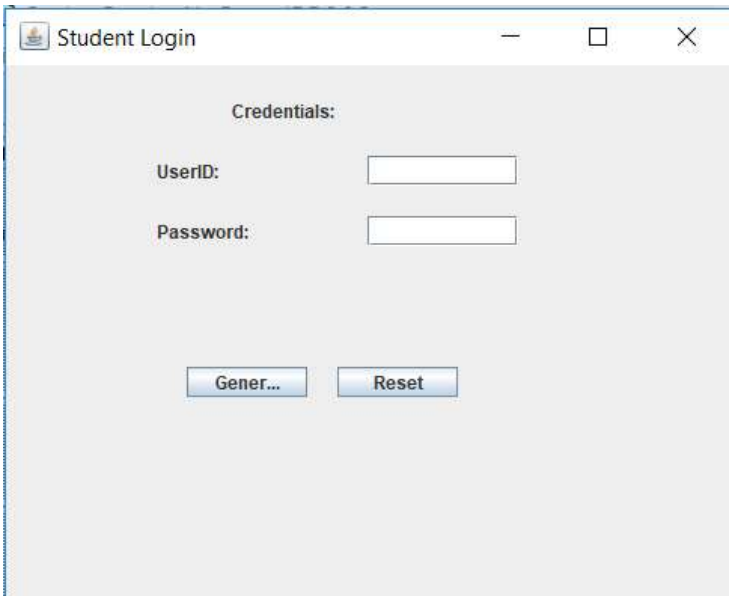

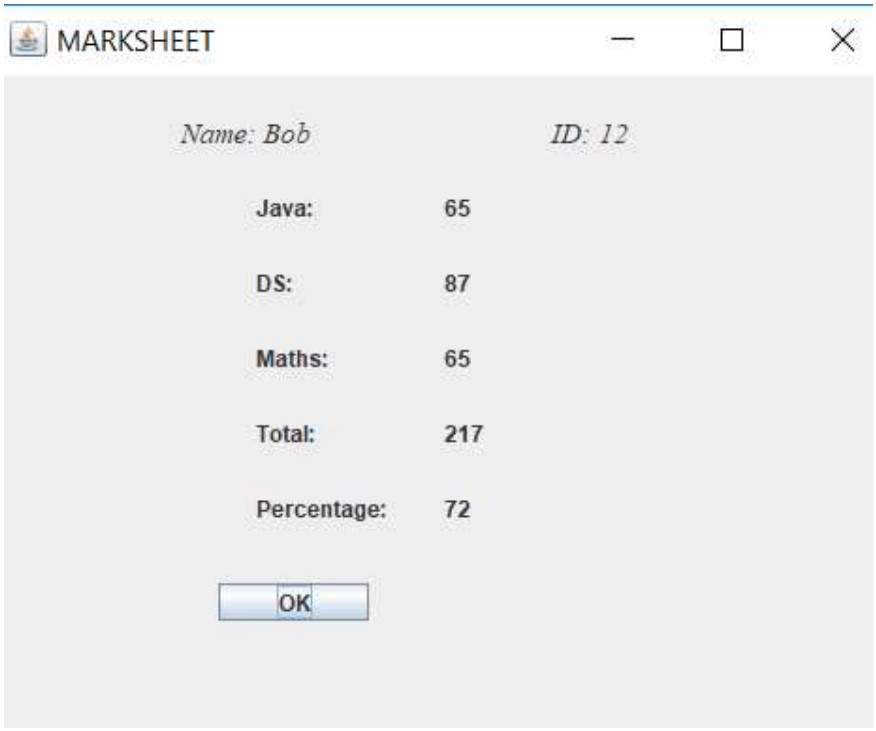

CONCLUSION : Hence we successfully design student marksheet generator.