

# **JAVA MINI PROJECT**

## **EMPLOYEE MANAGEMENT SYSTEM**

(Using GUI and Database)



**Submitted By:**

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**AIM :** To create a GUI based Java application for the Management of Employee Data.

- Increment the salary of an employee by the given amount.

**PROGRAM:**

```
import javax.swing.*;
import java.sql.*;
import java.awt.event.*;
class EmployeeSal extends JFrame implements ActionListener
{
    JButton inc;
    JTextField id,vf,csal,amt,newsal;
    JLabel heading,empid,verf,current,amount,neww;
    EmployeeSal()
    {
        super("Nandhana Suffin_Roll No.4");
        inc=new JButton("Increment");
        heading=new JLabel("Increment Salary");
        empid=new JLabel("Employee Id* :");
        verf=new JLabel("Validation");
        current=new JLabel("Previous Salary:");
        amount=new JLabel("Amount incremented* :");
        neww=new JLabel("Updated Salary:");
        id=new JTextField(10);
        vf=new JTextField(30);
        csal=new JTextField(10);
        amt=new JTextField(10);
        newsal=new JTextField(10);
        add(heading);
```

```
add(inc);
add(id);
add(vf);
add(csal);
add(amt);
add(newsal);
add(empid);
add(verf);
add(current);
add(amount);
add(neww);
setLayout(null);
heading.setBounds(125,20,200,50);
empid.setBounds(20,70,150,20);
amount.setBounds(20,100,200,20);
verf.setBounds(20,130,150,20);
current.setBounds(20,160,200,20);
neww.setBounds(20,190,150,20);
id.setBounds(200,70,100,20);
amt.setBounds(200,100,100,20);
vf.setBounds(200,130,100,20);
csal.setBounds(200,160,100,20);
newsal.setBounds(200,190,100,20);
inc.setBounds(330,110,200,40);
setSize(700,400);
setVisible(true);
setDefaultCloseOperation(EXIT_ON_CLOSE);
inc.addActionListener(this);
}
public void actionPerformed(ActionEvent ae)
{
```

```

Object source=ae.getSource();
try
{double currentsalary=0,incamt,newsalary;
int emp_id=0,row,flag=0;
Class.forName("com.mysql.cj.jdbc.Driver");
Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/empl
oyeedata","root","password");
Statement stm=con.createStatement();
emp_id=Integer.parseInt(id.getText());
incamt=Double.parseDouble(amt.getText());
if(source==inc)
{
    String qry="select * from employee where empid="+emp_id+" ";
    ResultSet rs=stm.executeQuery(qry);
while(rs.next())
{
    flag=1;
    emp_id=Integer.parseInt(rs.getString(1));
    vf.setText("ID VERIFIED");
    currentsalary=Double.parseDouble(rs.getString(3));
    csal.setText(rs.getString(3));
}
if (flag==1)
{
    newsalary=currentsalary+incamt;
    String qry1="update employee set salary= "+newsalary+" where empid=
"+emp_id+" ";
    row=stm.executeUpdate(qry1);
    if(row==1)
    {

```

```
newsal.setText(Double.toString(newsalary));
}
}
else if(flag==0)
{
    vf.setText("INVALID ID");
    newsal.setText("");
    csal.setText("");
    amt.setText("");
}
rs.close();
stm.close();
con.close();
}
}
catch(ClassNotFoundException e)
{System.out.println(e);
}
catch(SQLException e)
{
    System.out.println(e);
}
}
public static void main(String args[])
{
    EmployeeSal obj=new EmployeeSal();
}
}
```

## OUTPUTS:

## GUI:

Increment Salary

Employee Id\* :

Amount incremented\* :

Validation

Previous Salary:

Updated Salary:

## DATABASE STRUCTURE:

```
mysql> select * from employee;
+-----+-----+-----+-----+-----+
| empid | name       | salary | yoj  | department |
+-----+-----+-----+-----+-----+
| 1111  | tututiutut | 1234.00 | 2022 | ge         |
| 1234  | Rachel Jacob | 50000.00 | 2010 | Sales      |
| 1235  | Neha Marian | 60000.00 | 2016 | HR         |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from employee;
+-----+-----+-----+-----+-----+
| empid | name       | salary | yoj  | department |
+-----+-----+-----+-----+-----+
| 1111  | tututiutut | 1235.00 | 2022 | ge         |
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| 1235  | Neha Marian | 60000.00 | 2016 | HR         |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

**CONCLUSION:** The program was executed successfully and the output was verified.