# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)



**Skills Based Project Report**

**on**

## Employee Management System

**Submitted by:**

**Ritik Sarathe**

**0901CA211047**

**Mentor:**

**Dr. Anshu Chaturvedi**

(Professor)

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE
GWALIOR - 474005 (MP) est. 1957

JANUARY - JUNE 2022

**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

# CERTIFICATE

This is certified that **Ritik Sarathe** (0901CA211047) has submitted the project report titled **Employee Management System** under the mentorship of **Dr. Anshu Chaturvedi** (Professor), as the skills based mini project in 1$^{st}$ year of Master of Computer Application in Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.

**Dr. Anshu Chaturvedi**
(Professor)
Computer Science and Engineering

# DECLARATION

I hereby declare that the work being presented in this project report, for the fulfilment of partial requirement of the skills based mini project in 1st year of Master of Computer Application in Computer Science and Engineering at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of **Dr. Anshu Chaturvedi**, (Professor), MITS Gwalior.

I declare that I have not submitted the matter embodied in this report anywhere else.

Ritik Sarathe
0901CA211047
1st Year,
Master of Computer Application,
Computer Science and Engineering

III

# ACKNOWLEDGEMENT

The full semester project has proved to be pivotal to my career. I am thankful to my institute, **Madhav Institute of Technology and Science** to allow me to continue my disciplinary project. I extend my gratitude to the Director of the institute, **Dr. R. K. Pandit** and Dean Academics, **Dr. Manjaree Pandit** for this.

I would sincerely like to thank my department, **Department of Computer Science and Engineering**, for allowing me to explore this project. I humbly thank **Dr. Manish Dixit**, Professor and Head, Department of Computer Science and Engineering, for his continued support during the course of this engagement, which eased the process and formalities involved.

I am sincerely thankful to my faculty coordinator. I am grateful to the guidance of **Dr. Anshu Chaturvedi**, (Professor), Computer Science and Engineering, for her continued support and guidance throughout the project. I am also very thankful to the faculty and staff of the department.

Ritik Sarathe
0901CA211047
1st Year,
Master of Computer Application,
Computer Science and Engineering

# ABSTRACT

Employee Management System is a distributed application, developed to maintain the details of employees working in any organization. It maintains the information about the personal details of their employees, also the details about the payroll system which enable to generate the payslip. The application is actually a suite of applications developed using Java.

It is simple to understand and can be used by anyone who is not even familiar with simple employees system. It is user friendly and just asks the user to follow step by step operations by giving him few options. It is fast and can perform many operations of a company.

This software package has been developed using the powerful coding tools of JAVA at Front End and Microsoft Sql Server at Back End. The software is very user friendly. The package contains different modules like Employee details. This version of the software has multi-user approach. For further enhancement or development of the package, user's feedback will be considered.

# CONTENTS

**TITLE**                                                                                   **PAGE NO.**

# Introduction

Employee Management system is an application that enables users to create and store Employee Records. The application also provides facilities of a payroll system which enables user to generate Pay slips too. This application is helpful to department of the organization which maintains data of employees related to an organization.

Java is a platform independent language. Its created applications can be used on a standalone machine as well as on distributed network. More over applications developed in java can be extended to Internet based applications. Thus, java was chosen as background to design this application.

# **Objective**

In this world of growing technologies everything has been computerized. With large number of work opportunities the Human workforce has increased. Thus there is a need of a system which can handle the data of such a large number of Employees in an organization. This project simplifies the task of maintain records because of its user friendly nature.

# Coding Screenshots

/*

*AddEmp.java*

*/

```java
Package employee management;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.logging.Level;
import java.util.logging.Logger;
public class AddEmp extends javax.swing.JFrame {
    Connection con;
    Statement stmt;
Prepared Statement stat;
ResultSetrs;
    static int eid=0;
.

.

.

    private java.awt.TextField textField8;
    private java.awt.TextField textField9;
    // End of variables declaration
}
```

```java
/*
 * Intro.java
 */



package employeemanagement;

public class Intro extends javax.swing.JFrame {



    /** Creates new form Intro */
    public Intro() {
        initComponents();
        textField2.setEchoChar('*');
        this.setVisible(true);
    }


    /** This method is called from within the constructor to
     * initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is
     * always regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        label1 = new java.awt.Label();
        label2 = new java.awt.Label();
        label3 = new java.awt.Label();
```

```java
    public void run() {

        new Intro().setVisible(true);
/*

* EmpList.java

 */

 package employeemanagement;


import java.sql.Statement;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.util.logging.Level;

import java.util.logging.Logger;

public class EmpList extends javax.swing.JFrame {

    Connection con;

    Statement stmt;

PreparedStatement stat;

ResultSetrs;

    /** Creates new form EmpList */

    public EmpList() throws ClassNotFoundException, SQLException {

initComponents();

this.setVisible(true);

    textArea1.setEditable(false);

Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");

    con=DriverManager.getConnection("jdbc:odbc:Employee");

stmt=con.createStatement();

rs=stmt.executeQuery("Select * from emp");

    textArea1.append("Name\t\tAddress\t\t\tPost\t\tEMPID\n");
```

5

```
      while(rs.next())

    {

        textArea1.append(rs.getString(1)+"\t");

        textArea1.append(rs.getString(2)+"\t");

        textArea1.append(rs.getString(3)+"\t");

        textArea1.append(Integer.toString(rs.getInt(10))+"\t");

        textArea1.append("\n");

    }

  }


/*

*Main.java
 * To change this template, choose Tools | Templates
 * and open the template in the editor.
 */


package employeemanagement;

public class Main {

  /**
   * @param args the command line arguments
   */
  public static void main(String[] args) {
      // TODO code application logic here
      Intro intr = new Intro();
  }

}
```

# Form Screenshots & Output

Package employee Management

| Class Summary | |
|---|---|
| **AddEmp** | This class provides code for Addition of Employee to the Firm |
| **EmpDetail** | Provides code to view Employee Details and also to Delete/Modify Accounts |
| **EmpList** | Provides the code to show the List of employees in the Firm |
| **EmpSlip** | Provides codes for Salary Slip Generation |
| **Intro** | Contains code for Welcome/Login Page of the project |
| **Main** | The Base class which has the code to show the First/Login Screen |
| **Menuscrn** | This class has code which represents the Screen which shows the Buttons for Selection of Different Tasks |

Intro.java
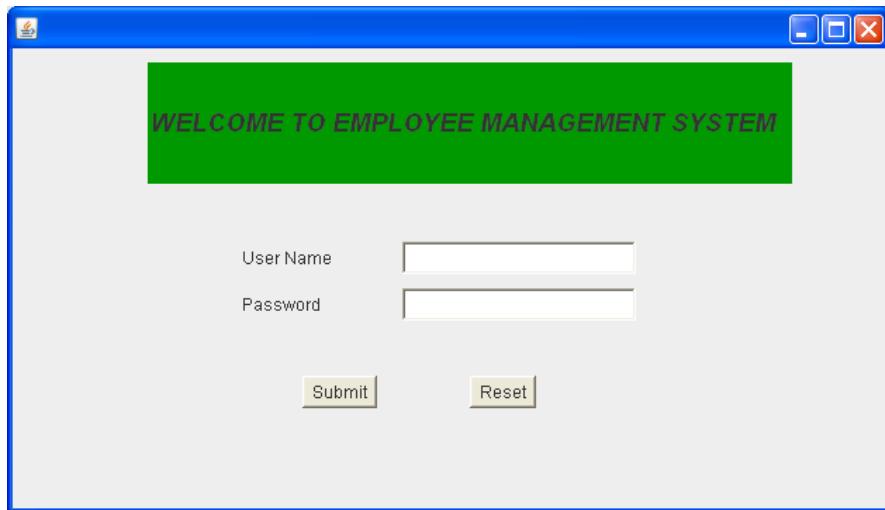


Contains code for username / Password Authentication. When user enters correct login and password it opens Main form otherwise it gives an error message. You can exit by clicking the "X" button on the right top corner of the window.

Press submit button to submit your request and reset to reset the fields.

MenuScrn.java
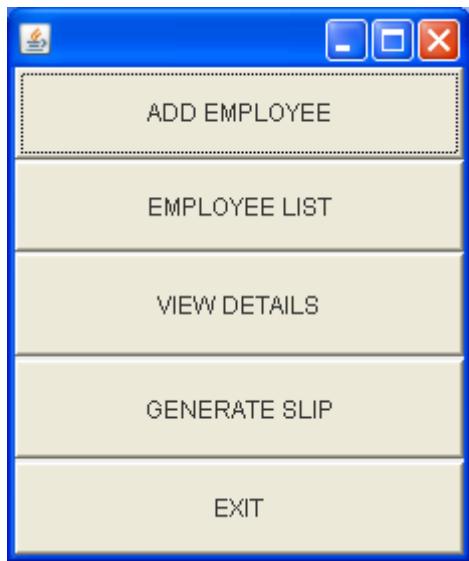


Using Add employee you can add employee to the firm. Clicking on it opens the add employee window. It calls the AddEmp Class.

Clicking on Employee List shows the list of employees in the firm. It calls the EmpList Class.

By Clicking on View details you can View/Modify/Delete Records of the employees. It calls EmpDetail.java.

By clicking on generate slip Salary slip is generated. It calls EmpSlip.java

On clicking Exit the Application exits.

Note: You cannot exit using X button in this window.

AddEmp.java
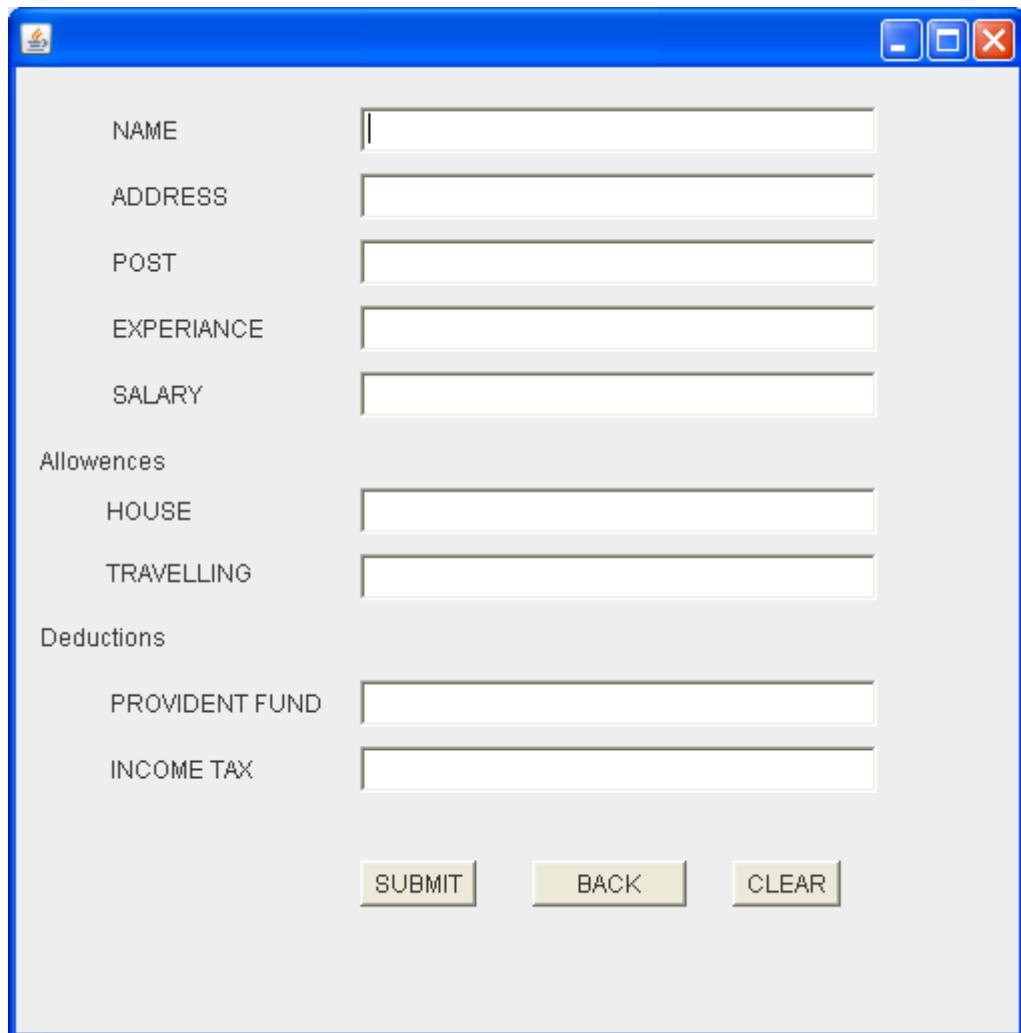


Clicking Back takes you back to main menu screen

Clicking Submit submits the records.
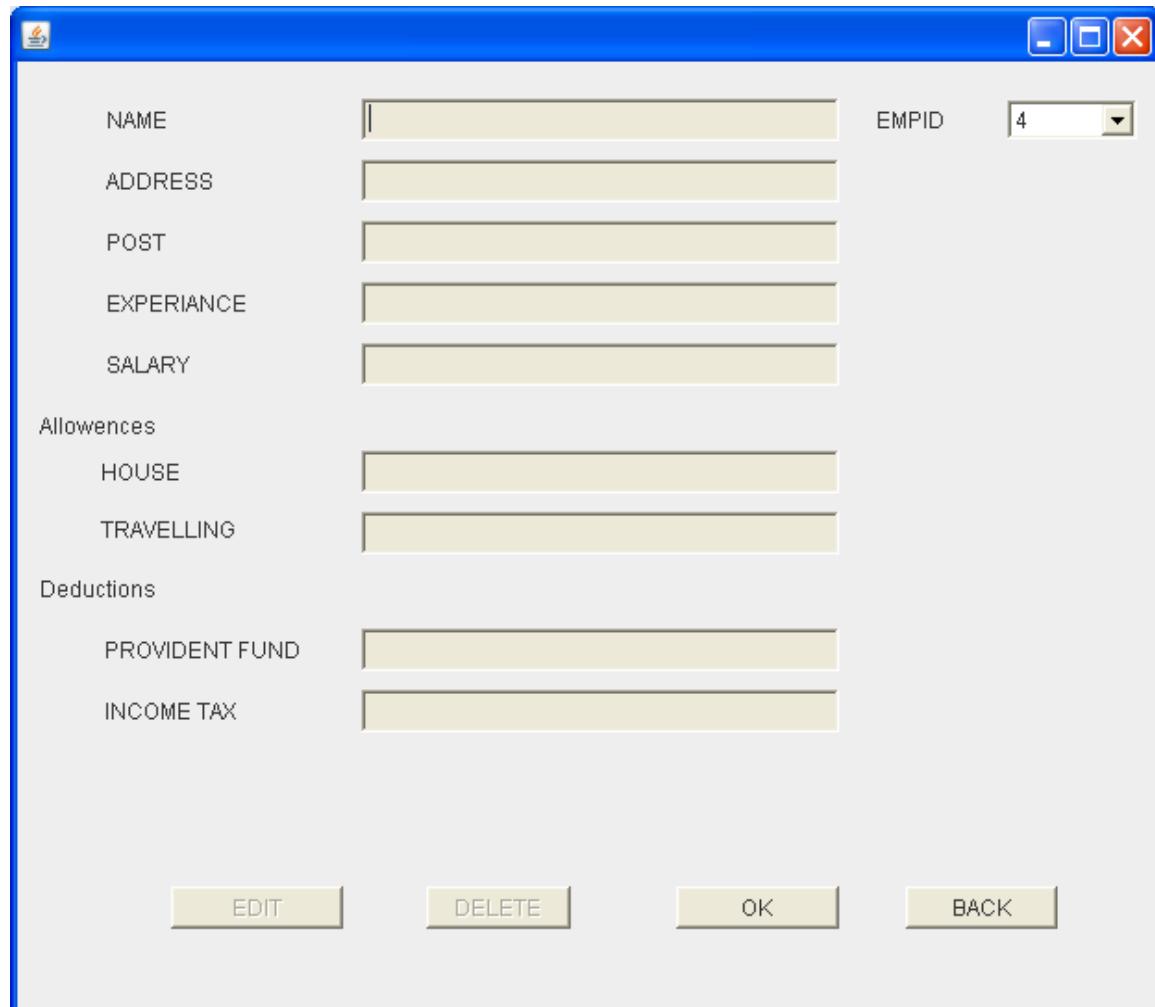
Clicking Clear Clears the Fields

EmpList.java
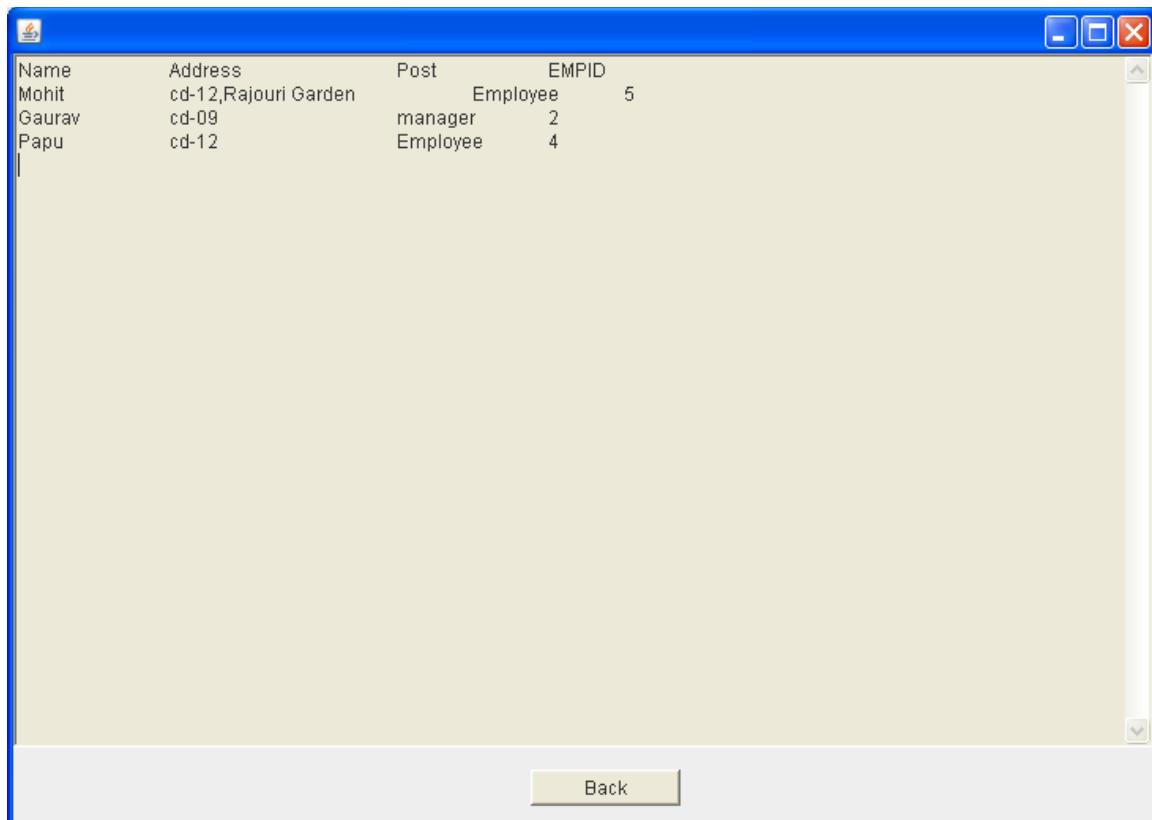


Shows the list of employees. On clicking Back takes you back to the Main Menu screen.

EmpDetail.java



To be able to edit records you must press Edit. Before that please select a record and press OK. This will enable the Edit and Delete Buttons. As Shown below.

Clicking on Edit will change it to save after making changes Please click on save to save the changes.

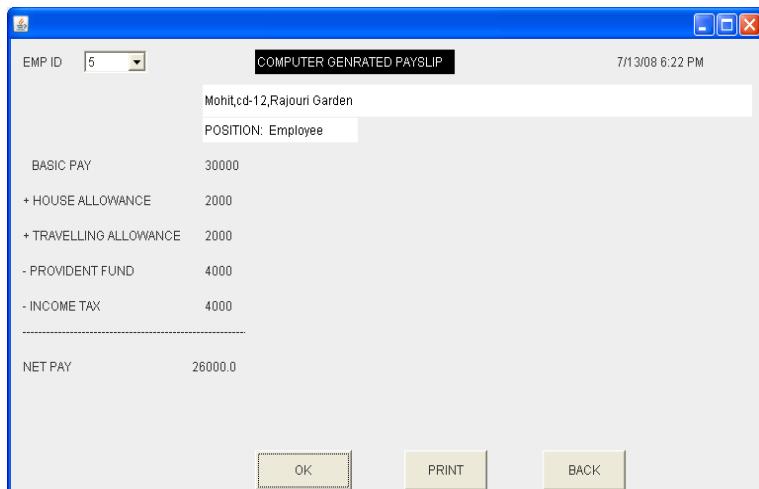Clicking on Delete will change it Save Please press save to confirm the deletion. As shown below.

Press save to confirm Deletion

Select another EmpId and press OK to select

Press Back to go back

## EmpSlip.Java



Press OK to generate slip for selected ID

Print Function is Currently Disabled and is left for Future scope

Press Back to Go Back .

# Conclusion

Since this project has been designed exclusively as a project, certain complexities that do faced by any real life manual problem like total no. of employee, address redundancy etc. are considered in this project. But enhancement to the project can easily be made without changing the current design and programming structure.

# Bibliography

1. CORE JAVA(Vol-I) by SUN MICROSYSTEMS

2. WWW.GOOGLE.COM

3. WWW.JAVA.SUN.COM

4. WWW.ONLY4GURUS.COM

5. WWW.SMARTDRAW.COM

6. HEAD FIRST BY KATHY SIERRA & BERT BATES