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:

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0901CA211051

Mentor:

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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CERTIFICATE

This is certified that **Sachin Yadav** (0901CA211051) has submitted the project report titled **Employee Management System** under the mentorship of **Dr. Parul Saxena** (Assistant Professor), as the skills based mini project in 1st year of Master of Computer Application in Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.

Dr. Parul Saxena
(Assistant 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. Parul Saxena**, (Assistant Professor), MITS Gwalior.

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

Sachin Yadav
0901CA211051
1st Year,
Master of Computer Application,
Computer Science and Engineering

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. Parul Saxena**, (Assistant 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.

Sachin Yadav
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1st Year,
Master of Computer Application,
Computer Science and Engineering

ABSTRACT

Employee Management System, is a simple system where we can record all the data of employee such as name, position, age, salary etc., where the assigned admin will be the only one to have access to this system. The assigned admin that is signed in this system is the only person that can manage to Create, Read, Update, and Delete the employee's record. This system is already making sure that all the data and files will be secured and can't be accessed by others that is not authorized or registered as an admin user.

Employee management system we can also call it as EMS, is an application based system, which is made with the use of Microsoft Visual Studio 2022 having two applications developed, one for keeping all the details of employers to manage employers in a company and another for keeping record of salary paid to a employees according to their position and working days.

However, there are many advanced technology systems available that can do this work but they all are costly for low level industries. This system will take the no. of working days of each employee and calculate the salary of them accordingly. It saves lots of time and has no error in pay calculation as in this system salary is calculated according to position of every employee in the company hence preventing clashes between different Teams in the company. So that both employer and employee can focus on their work to develop their company.

CONTENTS

1. INTRODUCTION

An employee management system or EMS is a tool that helps improve employee satisfaction and productivity to help a company achieve their overall goals. These tools help monitor, assess and control employees' working hours and efficiently utilise human resources. It ensures that HR efficiently manages each employee's payroll and disburses salaries on time. An EMS securely stores and manages the personal and work-related details of employees. This makes it easier for the managers to store and access relevant data when needed With the right EMS tool, the HR department can implement processes and help companies achieve their business objectives. By helping managers keep track of admin activities, the tool can help improve employee engagement and increase productivity. These tools also help a company with vacations and absence management and timekeeping.

The aim of this project is to implement a Employee Management System suitable for any Company, providing flexibility to adapt to new and changing requirements. This Employee Management System is an automated version of manual Employee Management System and using this software means securing the activities and expandable information service to staff and employees.

The main benefit of this system is that it helps reduce the workload on HR departments and focus on other essential work. Automating recurring and administrative tasks spares much time that can be invested in growing your business. Having an efficient employee management system at your disposal allows you to keep employee databases in a single source. A reliable program should also provide data security. Introducing this software to your company can help you encourage your workers to put their best effort into their work. Top software usually includes invoicing and payroll services, which allows you to pay your employees using the program. This application also includes a print invoice service for the comfort of company’s employees.

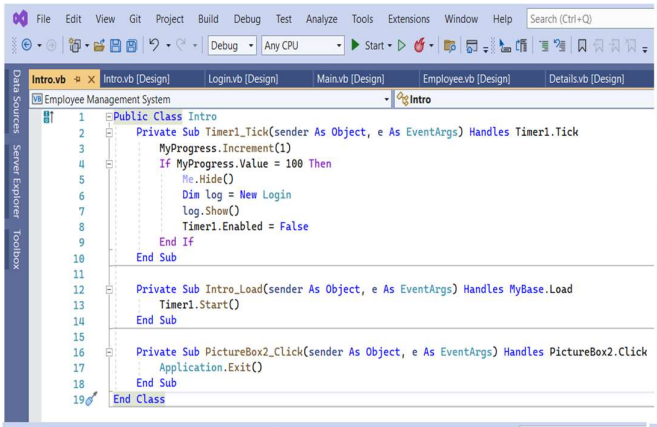
2. OBJECTIVE

The main objective of employee management is effectively monitoring employee performance. It will let you know per day salary of every employee according to their positions, and will calculate salary by giving the no. of working days of a employee.

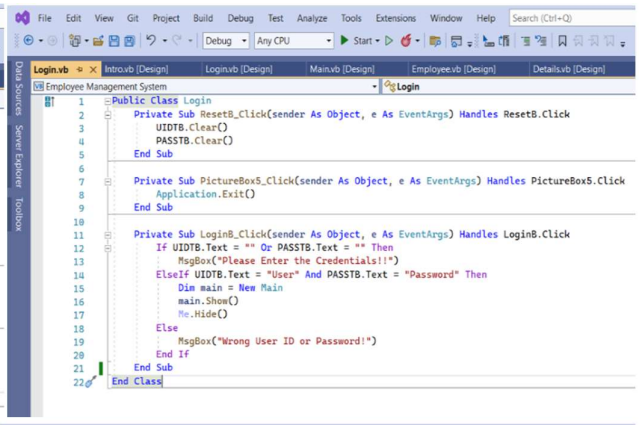
Objective of the employee management system is developing a simple, cheap and reliable system to achieve the goal of making attendance and salary calculation of employees easy and genuine. We aim to develop a system that prevents cheating by employees and make sure they get each penny of their hard work. This system is developed with the main objective to solve the problem of small scale factories and businesses that are still using pen and paper to maintain staff records. These industries even face many clashes with employees as most of the staff working here is from labour class and they really do hard work to earn, so our system will put an effort to reduce these clashes and will make sure that these workers get each penny of their work.

This system will save a lot of time for the employer and reduce the tension of handling pay for employees. So, they can focus on other things and developing their businesses. A good Employee management system must ensure to have better security features.

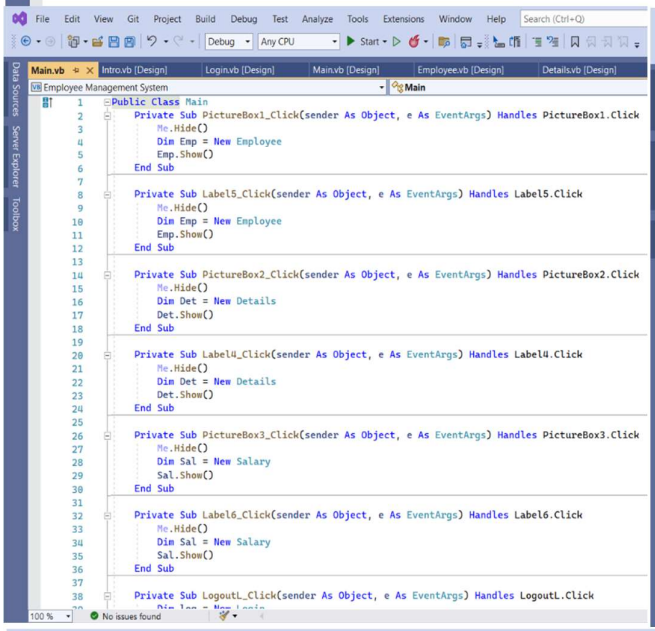
3. CODING SCREENSHOTS



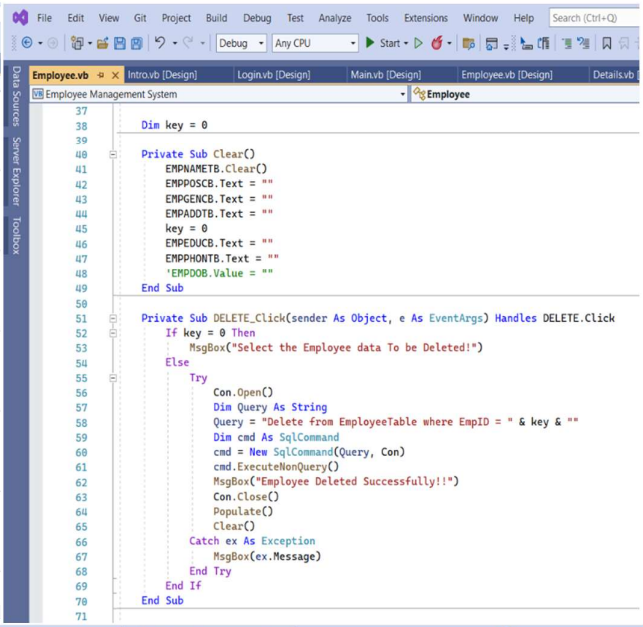
```
Public Class Intro
    Private Sub Timer1_Tick(sender As Object, e As EventArgs) Handles Timer1.Tick
        MyProgress.Increment(1)
        If MyProgress.Value = 100 Then
            Me.Hide()
            Dim log = New Login
            log.Show()
            Timer1.Enabled = False
        End If
    End Sub

    Private Sub Intro_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        Timer1.Start()
    End Sub

    Private Sub PictureBox2_Click(sender As Object, e As EventArgs) Handles PictureBox2.Click
        Application.Exit()
    End Sub
End Class
```



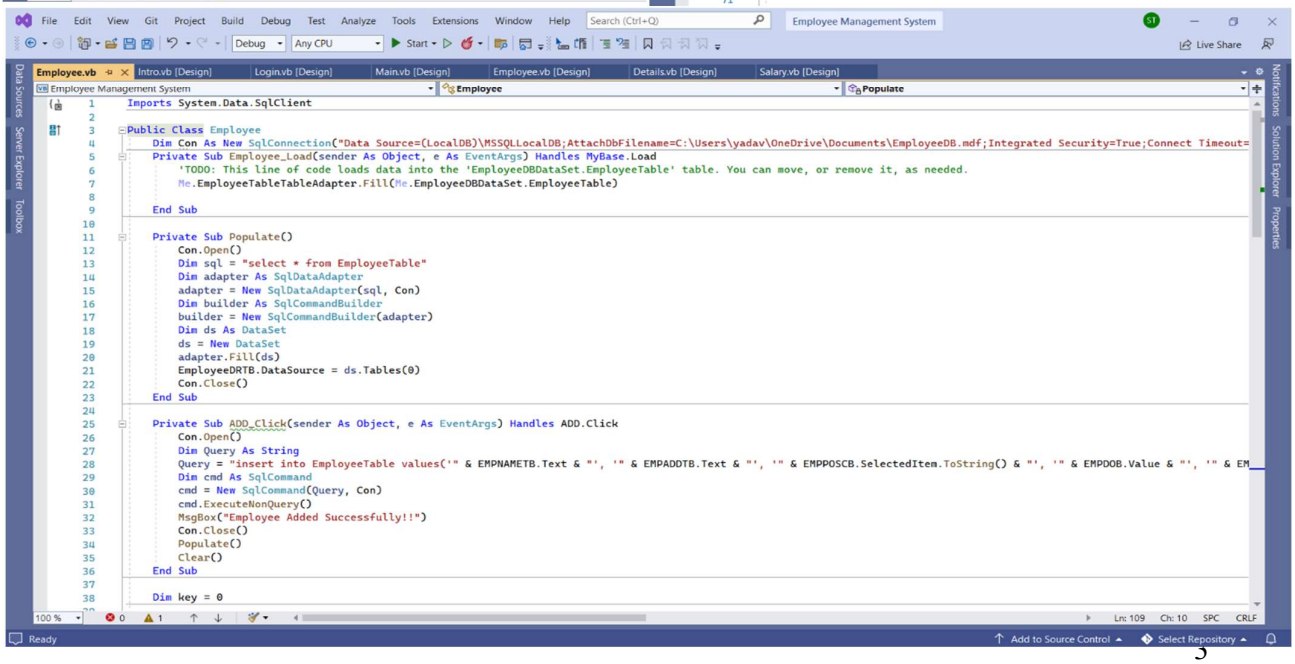
```
Public Class Login
    Private Sub ResetB_Click(sender As Object, e As EventArgs) Handles ResetB.Click
        UIDTB.Clear()
        PASSTB.Clear()
    End Sub

    Private Sub PictureBox5_Click(sender As Object, e As EventArgs) Handles PictureBox5.Click
        Application.Exit()
    End Sub

    Private Sub LoginB_Click(sender As Object, e As EventArgs) Handles LoginB.Click
        If UIDTB.Text = "" Or PASSTB.Text = "" Then
            MsgBox("Please Enter the Credentials!!")
        ElseIf UIDTB.Text = "User" And PASSTB.Text = "Password" Then
            Dim main = New Main
            main.Show()
            Me.Hide()
        Else
            MsgBox("Wrong User ID or Password!")
        End If
    End Sub
End Class
```



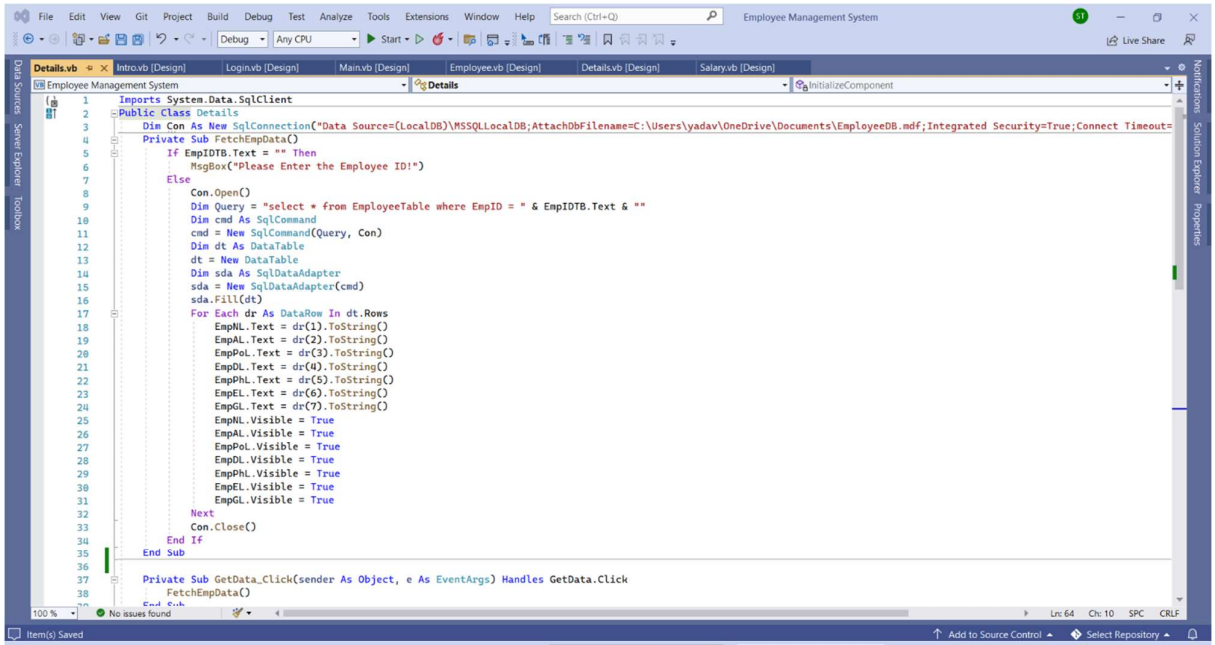
```
Public Class Main
    Private Sub PictureBox1_Click(sender As Object, e As EventArgs) Handles PictureBox1.Click
        Me.Hide()
        Dim Emp = New Employee
        Emp.Show()
    End Sub

    Private Sub Label5_Click(sender As Object, e As EventArgs) Handles Label5.Click
        Me.Hide()
        Dim Emp = New Employee
        Emp.Show()
    End Sub

    Private Sub PictureBox2_Click(sender As Object, e As EventArgs) Handles PictureBox2.Click
        Me.Hide()
        Dim Det = New Details
        Det.Show()
    End Sub

    Private Sub Label4_Click(sender As Object, e As EventArgs) Handles Label4.Click
        Me.Hide()
        Dim Det = New Details
        Det.Show()
    End Sub

    Private Sub PictureBox3_Click(sender As Object, e As EventArgs) Handles PictureBox3.Click
        Me.Hide()
        Dim Sal = New Salary
        Sal.Show()
    End Sub

    Private Sub Label6_Click(sender As Object, e As EventArgs) Handles Label6.Click
        Me.Hide()
        Dim Sal = New Salary
        Sal.Show()
    End Sub

    Private Sub LogoutL_Click(sender As Object, e As EventArgs) Handles LogoutL.Click
```



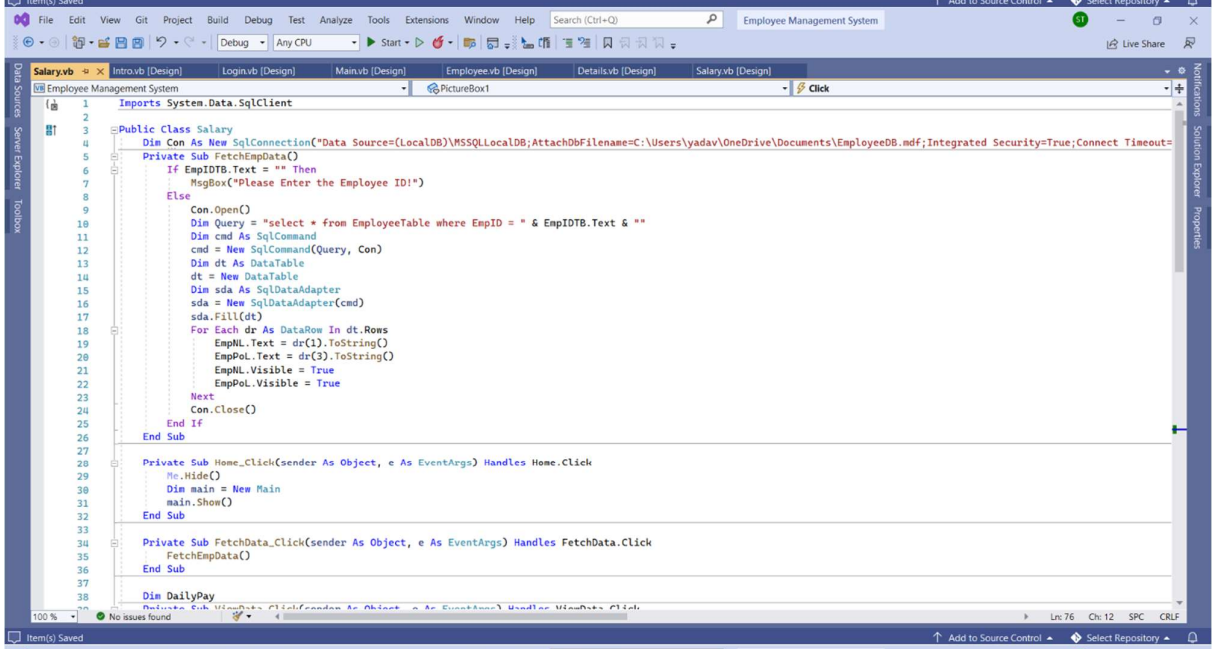
```
    Dim key = 0

    Private Sub Clear()
        EMPNAMETB.Clear()
        EMPPOSCB.Text = ""
        EMPGENCB.Text = ""
        EMPADDTB.Text = ""
        key = 0
        EMPEDUCB.Text = ""
        EMPPHONTB.Text = ""
        'EMPDOB.Value = ""
    End Sub

    Private Sub DELETE_Click(sender As Object, e As EventArgs) Handles DELETE.Click
        If key = 0 Then
            MsgBox("Select the Employee data To be Deleted!")
        Else
            Try
                Con.Open()
                Dim Query As String
                Query = "Delete from EmployeeTable where EmpID = " & key & ""
                Dim cmd As SqlCommand
                cmd = New SqlCommand(Query, Con)
                cmd.ExecuteNonQuery()
                MsgBox("Employee Deleted Successfully!!")
                Con.Close()
                Populate()
                Clear()
            Catch ex As Exception
                MsgBox(ex.Message)
            End Try
        End If
    End Sub
```



```
Imports System.Data.SqlClient

Public Class Employee
    Dim Con As New SqlConnection("Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\yadav\OneDrive\Documents\EmployeeDB.mdf;Integrated Security=True;Connect Timeout=
    Private Sub Employee_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        'TODO: This line of code loads data into the 'EmployeeDBDataSet.EmployeeTable' table. You can move, or remove it, as needed.
        Me.EmployeeTableTableAdapter.Fill(Me.EmployeeDBDataSet.EmployeeTable)

    End Sub

    Private Sub Populate()
        Con.Open()
        Dim sql = "select * from EmployeeTable"
        Dim adapter As SqlDataAdapter
        adapter = New SqlDataAdapter(sql, Con)
        Dim builder As SqlCommandBuilder
        builder = New SqlCommandBuilder(adapter)
        Dim ds As DataSet
        ds = New DataSet
        adapter.Fill(ds)
        EmployeeDRTB.DataSource = ds.Tables(0)
        Con.Close()
    End Sub

    Private Sub ADD_Click(sender As Object, e As EventArgs) Handles ADD.Click
        Con.Open()
        Dim Query As String
        Query = "insert into EmployeeTable values('" & EMPNAMETB.Text & "', '" & EMPADDTB.Text & "', '" & EMPPOSCB.SelectedItem.ToString() & "', '" & EMPDOB.Value & "', '" & EM
        Dim cmd As SqlCommand
        cmd = New SqlCommand(Query, Con)
        cmd.ExecuteNonQuery()
        MsgBox("Employee Added Successfully!!")
        Con.Close()
        Populate()
        Clear()
    End Sub

    Dim key = 0
```



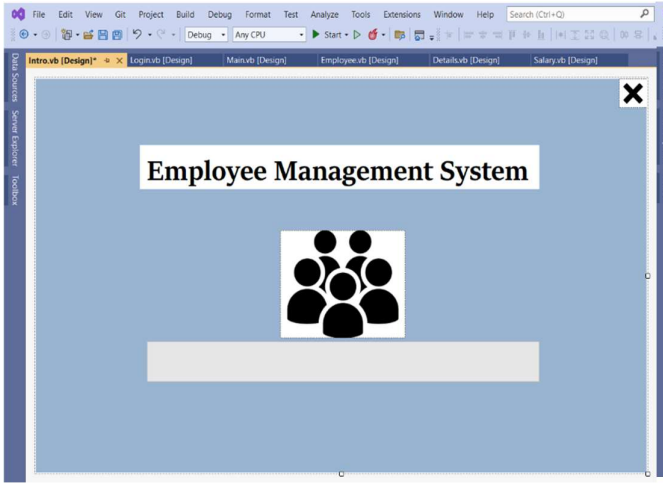
```
Imports System.Data.SqlClient
Public Class Details
    Dim Con As New SqlConnection("Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\yadav\OneDrive\Documents\EmployeeDB.mdf;Integrated Security=True;Connect Timeout=
    Private Sub FetchEmpData()
        If EmpIDTB.Text = "" Then
            MsgBox("Please Enter the Employee ID!")
        Else
            Con.Open()
            Dim Query = "select * from EmployeeTable where EmpID = " & EmpIDTB.Text & ""
            Dim cmd As SqlCommand
            cmd = New SqlCommand(Query, Con)
            Dim dt As DataTable
            dt = New DataTable
            Dim sda As SqlDataAdapter
            sda = New SqlDataAdapter(cmd)
            sda.Fill(dt)
            For Each dr As DataRow In dt.Rows
                EmpNL.Text = dr(1).ToString()
                EmpAL.Text = dr(2).ToString()
                EmpPoL.Text = dr(3).ToString()
                EmpDL.Text = dr(4).ToString()
                EmpPhL.Text = dr(5).ToString()
                EmpEL.Text = dr(6).ToString()
                EmpGL.Text = dr(7).ToString()
                EmpNL.Visible = True
                EmpAL.Visible = True
                EmpPoL.Visible = True
                EmpDL.Visible = True
                EmpPhL.Visible = True
                EmpEL.Visible = True
                EmpGL.Visible = True
            Next
            Con.Close()
        End If
    End Sub

    Private Sub GetData_Click(sender As Object, e As EventArgs) Handles GetData.Click
        FetchEmpData()
    End Sub
```



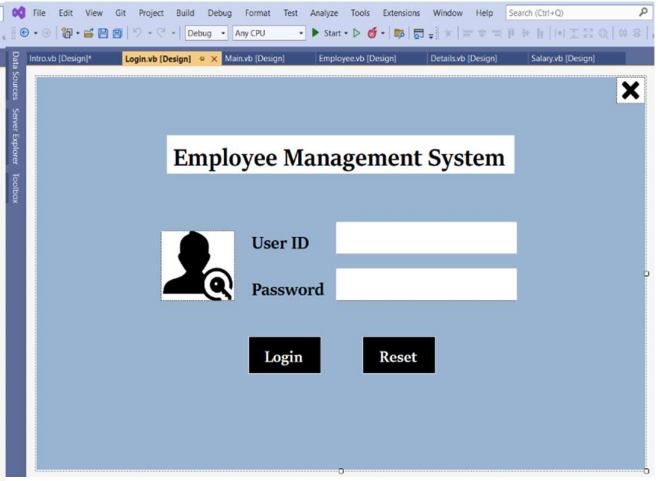
```
Imports System.Data.SqlClient

Public Class Salary
    Dim Con As New SqlConnection("Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=C:\Users\yadav\OneDrive\Documents\EmployeeDB.mdf;Integrated Security=True;Connect Timeout=
    Private Sub FetchEmpData()
        If EmpIDTB.Text = "" Then
            MsgBox("Please Enter the Employee ID!")
        Else
            Con.Open()
            Dim Query = "select * from EmployeeTable where EmpID = " & EmpIDTB.Text & ""
            Dim cmd As SqlCommand
            cmd = New SqlCommand(Query, Con)
            Dim dt As DataTable
            dt = New DataTable
            Dim sda As SqlDataAdapter
            sda = New SqlDataAdapter(cmd)
            sda.Fill(dt)
            For Each dr As DataRow In dt.Rows
                EmpNL.Text = dr(1).ToString()
                EmpPoL.Text = dr(3).ToString()
                EmpNL.Visible = True
                EmpPoL.Visible = True
            Next
            Con.Close()
        End If
    End Sub

    Private Sub Home_Click(sender As Object, e As EventArgs) Handles Home.Click
        Me.Hide()
        Dim main = New Main
        main.Show()
    End Sub

    Private Sub FetchData_Click(sender As Object, e As EventArgs) Handles FetchData.Click
        FetchEmpData()
    End Sub

    Dim DailyPay
    Private Sub ViewData_Click(sender As Object, e As EventArgs) Handles ViewData.Click
        If EmpPoL.Text = "" Then
            MsgBox("Select an Eployee!")
        ElseIf WorkedTB.Text = "" Or Convert.ToInt32(WorkedTB.Text) > 28 Then
            MsgBox("Enter a Valid Number of Days ")
        Else
            If EmpPoL.Text = "Manager" Then
                DailyPay = 1000
            ElseIf EmpPoL.Text = "Worker" Then
                DailyPay = 800
            ElseIf EmpPoL.Text = "Editor" Then
                DailyPay = 950
            ElseIf EmpPoL.Text = "Salesman" Then
                DailyPay = 850
            ElseIf EmpPoL.Text = "Accountant" Then
                DailyPay = 900
            Else
                DailyPay = 700
            End If
            Dim TotalWages = DailyPay * Convert.ToInt32(WorkedTB.Text)
            SalaryDRTB.Text = "Employee ID :    " + EmpIDTB.Text + vbCrLf + "Employee Name :    " + EmpNL.Text + vbCrLf + "Employee Position :    " + EmpPoL.Text + vbCrLf + "Da
        End If
    End Sub

    Private Sub PrintDocument1_PrintPage(sender As Object, e As Printing.PrintPageEventArgs) Handles PrintDocument1.PrintPage
        e.Graphics.DrawString("Employee Management System", New Font("Century Gothic", 25), Brushes.Black, 180, 40)
        e.Graphics.DrawString("****PAYSLIP****", New Font("Arial", 20), Brushes.Crimson, 330, 100)
        e.Graphics.DrawString(SalaryDRTB.Text, New Font("Century Gothic", 20), Brushes.Black, 150, 190)
        e.Graphics.DrawString("==========Thanks For Your Services==========", New Font("Century Gothic", 15), Brushes.Black, 150, 500)
    End Sub

    Private Sub PrintData_Click(sender As Object, e As EventArgs) Handles PrintData.Click
        PrintPreviewDialog1.Show()
    End Sub

    Private Sub PictureBox1_Click(sender As Object, e As EventArgs) Handles PictureBox1.Click
        Application.Exit()
    End Sub
End Class
```

4. FORMS SCREENSHOTS

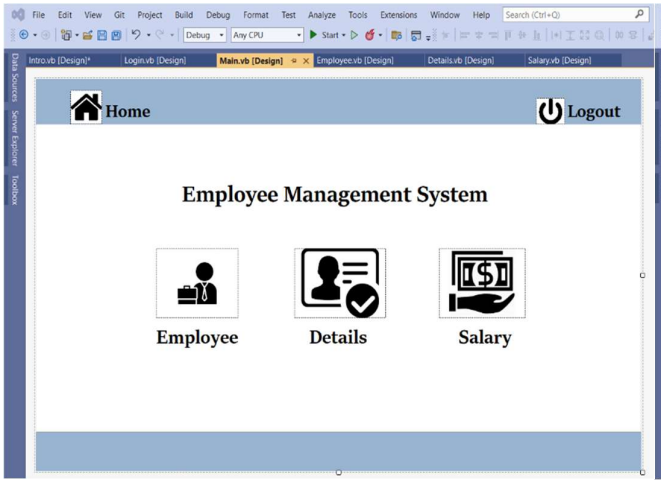
Form1



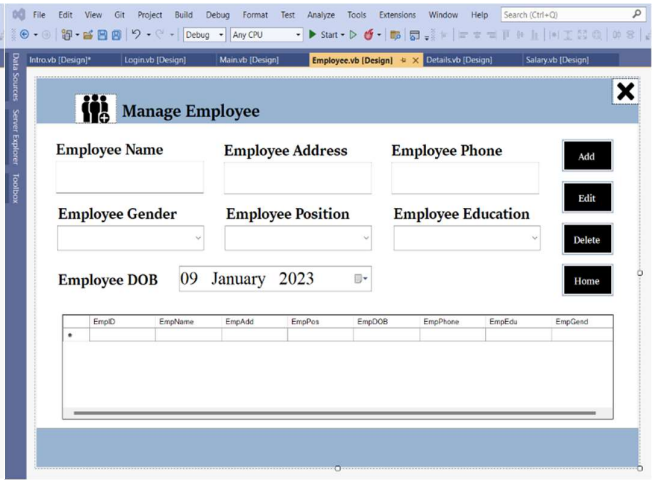
Form2



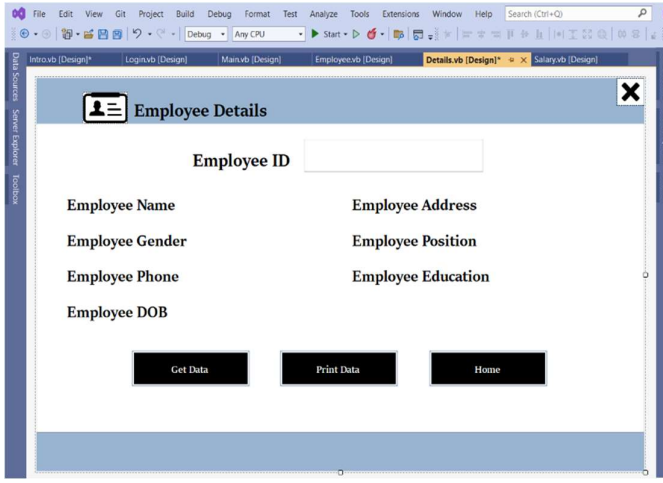
Form3



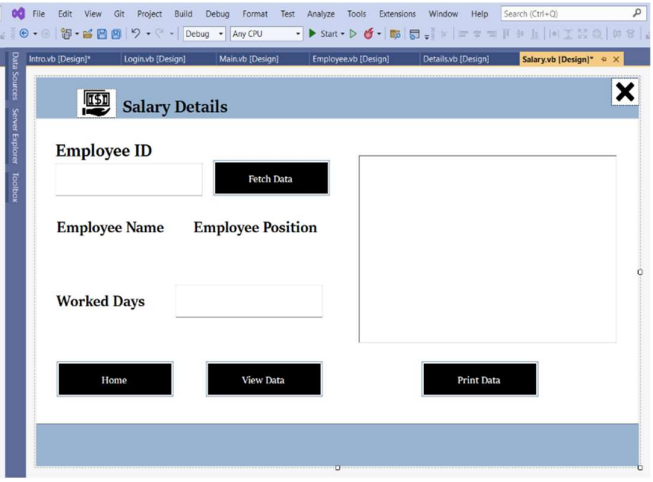
Form4



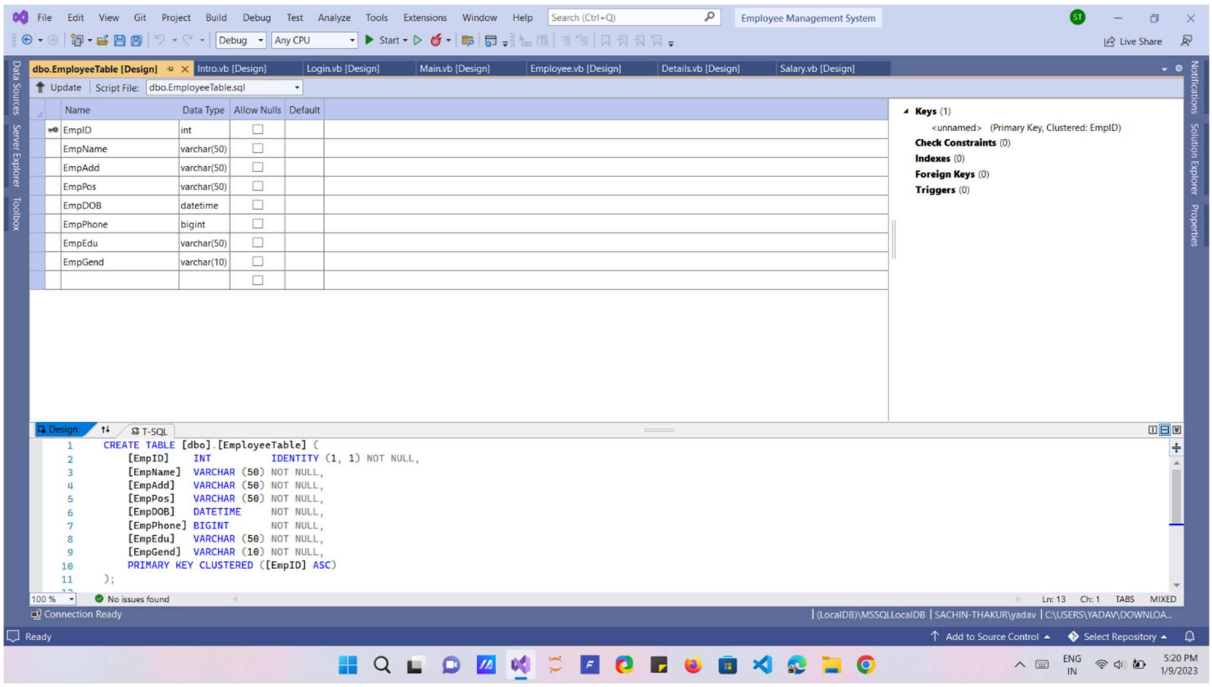
Form5



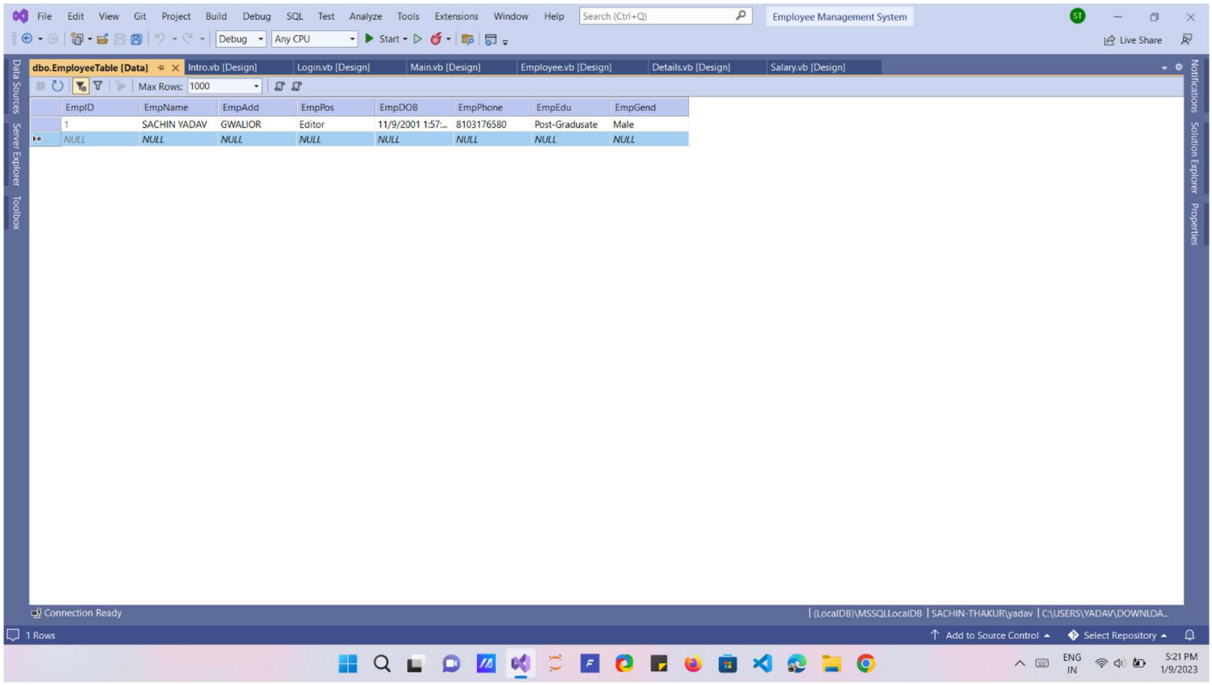
Form6



MySQL Server Database

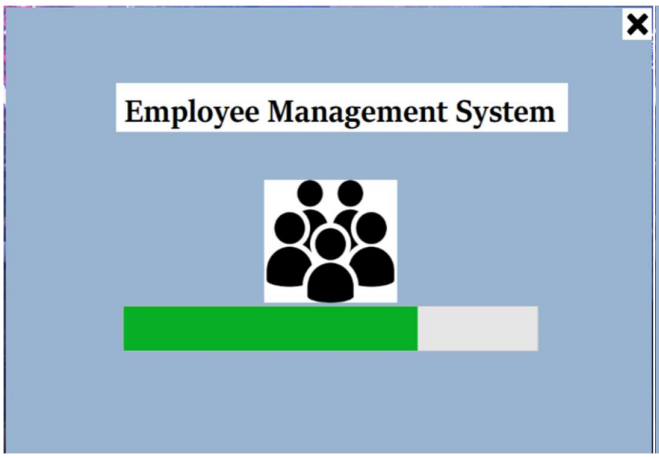


Tables Data

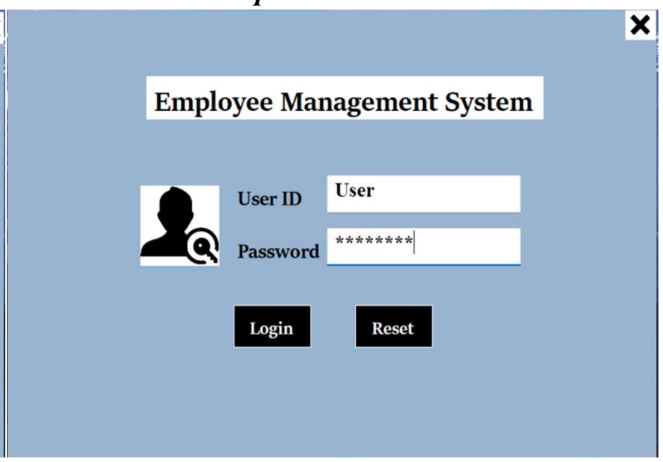


5. OUTPUT SCREENSHOTS

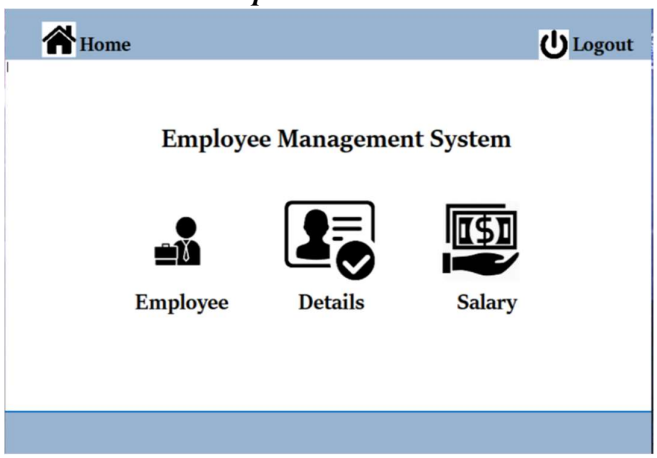
Output Form1



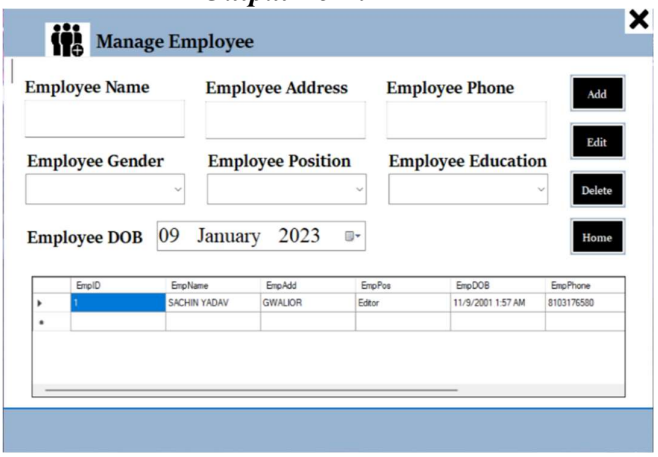
Output Form2



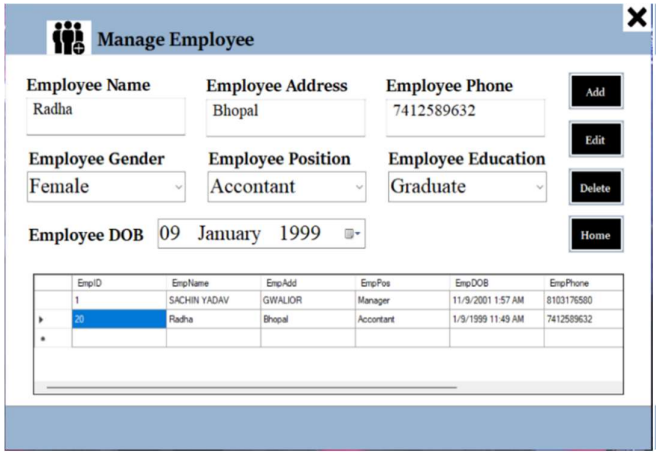
Output Form3



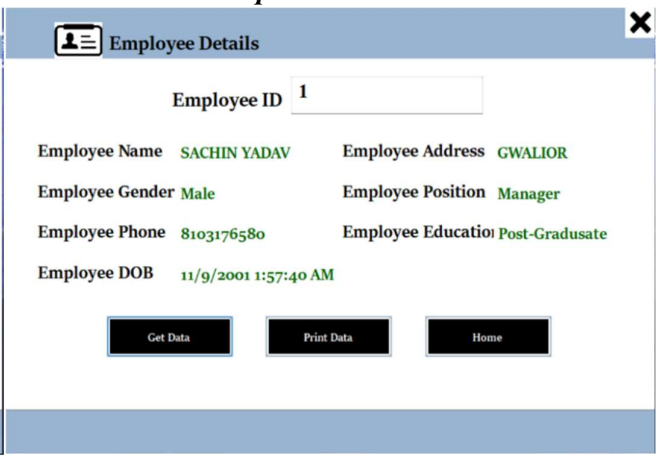
Output Form4



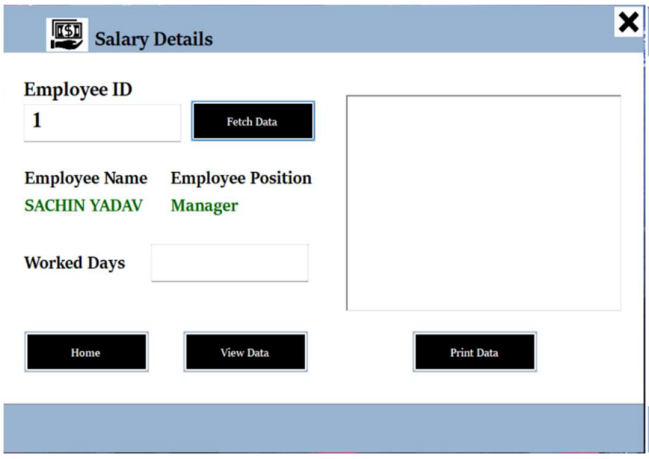
Output Form4.1



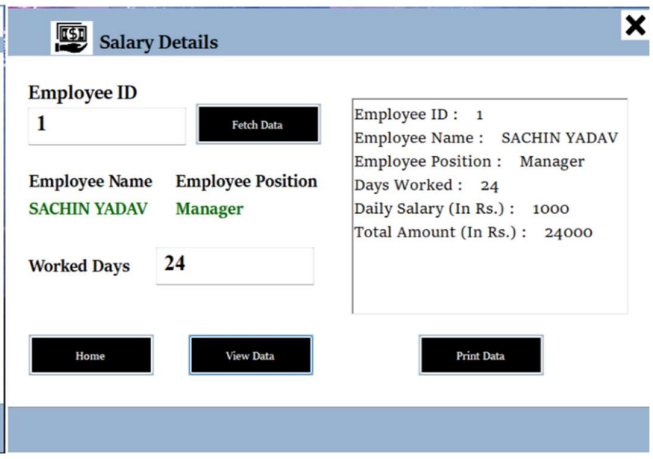
Output Form5



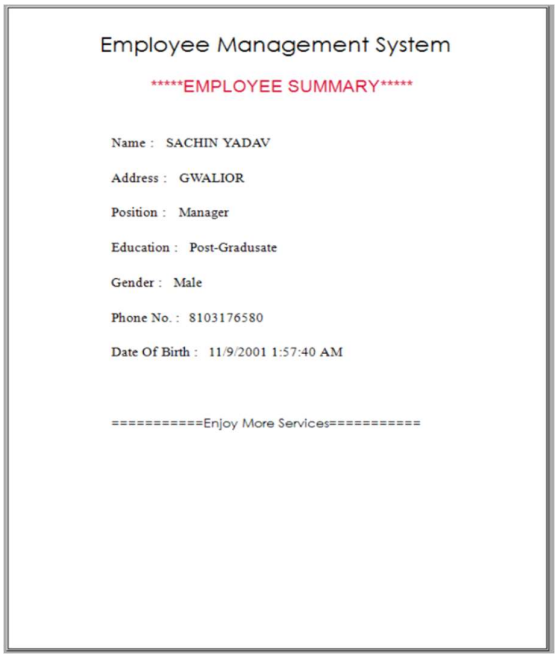
Output Form6



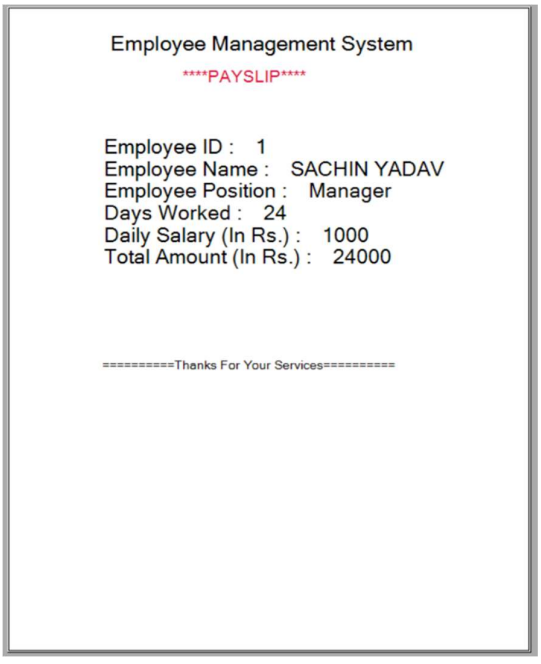
Output Form6.1



Print Employee Data



Print Salary Data



6. CONCLUSION

Software for employee management systems helps the organization improve its workforce productivity and boost overall well-being by tracking and monitoring the daily working activities and salary calculation of every employee. EMS will be the best employee productivity monitoring software for workforce management in small industries. It keeps record of every employee during his working hours.

This system will help the company develop their business and will help in managing employees data in a company. The employee management system is designed to save money, time and power. In a company to simplify the process of record maintenance it is very helpful. As employees are the backbone of any organisation so it is necessary to keep them happy. This concept will bring transparency in their wages calculation. It will also make the HR work easy so they can focus on some other work. This employee management system manages the overall performance and different aspects of an employee in an organization.

7. BIBLIOGRAPHY

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