

USER INTERFACE DESIGN MINIPROJECT

A Project Report

On

“Employee Management System”



Government Polytechnic Mumbai



Batch:2023-2024

Submitted To: Mr. Kunal Sir

Submitted By:

- 1. Tanvi Vijay Surve-SS22IF004**
- 2. Meghana Samadhan Badgujar-SS22IF012**
- 3. Ruhinaaz Irfan Ali Sayyed-SS22IF021**
- 4. Akshata Anil Dicholkar-SW22IF001**



TITLE:

“Employee Management System”



INTRODUCTION:

In response to the growing complexity of HR processes and the need for better management of human resources, our organization embarked on the implementation of an Employee Management System (EMS). The EMS was aimed at centralizing HR data, automating routine tasks, and providing managers with tools for effective employee supervision and engagement.

It facilitates tracking employee attendance, including clock-in and clock-out times, absences, leaves, and overtime hours. This helps in accurately recording working hours for payroll processing.

The app enables the scheduling and conducting of performance reviews, setting objectives, and tracking progress over time. It assists in identifying top performers, areas for improvement, and training needs.



SCOPE OF PROJECT:

The scope of the Employee Management System (EMS) project outlines the objectives, deliverables, features, and functionalities that will be included in the development and implementation of the system. This document serves as a guide for stakeholders, outlining the boundaries and expectations of the project.

Automate routine HR tasks such as attendance tracking, leave management, and performance evaluation to improve efficiency. Provide self-service tools for employees to manage their information, request leaves, access training resources, and receive performance feedback. Equip managers with tools for monitoring employee performance, assigning tasks, tracking progress, and generating reports.



INTRODUCTION OF SOFTWARE

The Employee Management System aims to streamline the process of managing employee records within an organization. It provides functionalities for adding, editing, and deleting employee information. Additionally, the system allows users to view a list of employees along with their details in a tabular format.



OBJECTIVES

To automate the process of managing employee records.

To provide a user-friendly interface for HR personnel to efficiently handle employee data.

To ensure data integrity and security through proper database management.

To enhance the efficiency of HR processes within the organization.



REQUIREMENT ANALYSIS

Functional Requirements

The system should allow adding new employee records with relevant details.

Users should be able to edit existing employee information.

The system should support deleting employee records.

Viewing employee records in a tabular format with sorting and filtering options.

Integration with a database system for data storage and retrieval.

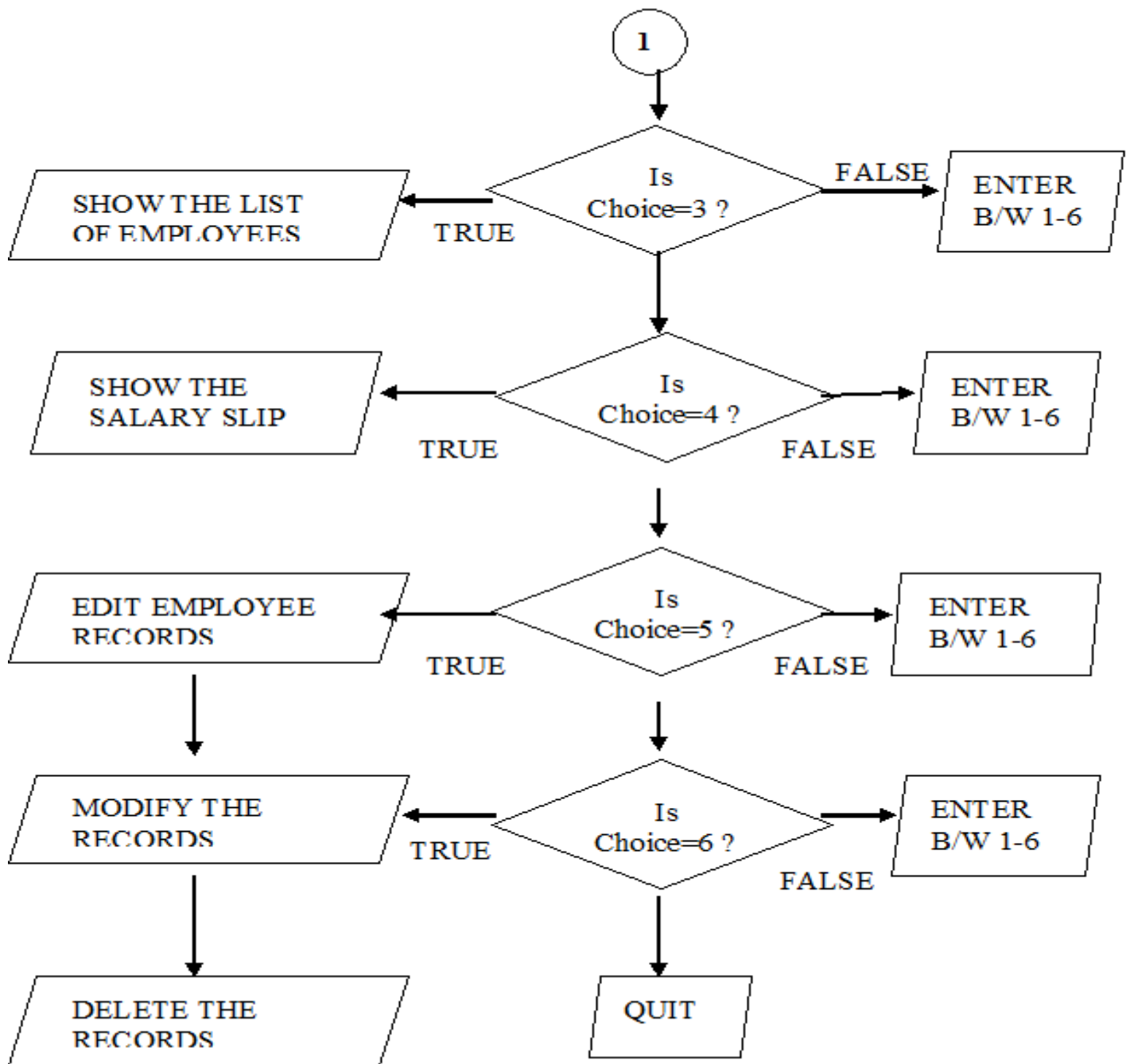


USER INTERFACE DESIGN

The user interface of the Employee Management System consists of multiple forms designed using Windows Forms in C#. The main form, Form1, serves as the entry point to the system and provides buttons to access different functionalities. The Employee form is used for adding and deleting employee records, while the EmployeeInfo form is designed for editing employee details. The interface employs textboxes and buttons for user input and interaction.



FLOWCHART



CODE:

Form1 page :

using System;

using System.Collections.Generic;

using System.ComponentModel;

```
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.SqlClient;
namespace EmployeeManagement
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }
        private void label1_Click(object sender, EventArgs e)
        {
        }
        private void Form1_Load(object sender, EventArgs e)
        {
        }
        private void button1_Click(object sender, EventArgs e)
        {
            Employee EmployeeInfo = new Employee();
            EmployeeInfo.Show();
        }
        private void button2_Click(object sender, EventArgs e)
        {
            EmployeeInfo EmployeeInfo = new EmployeeInfo();
```

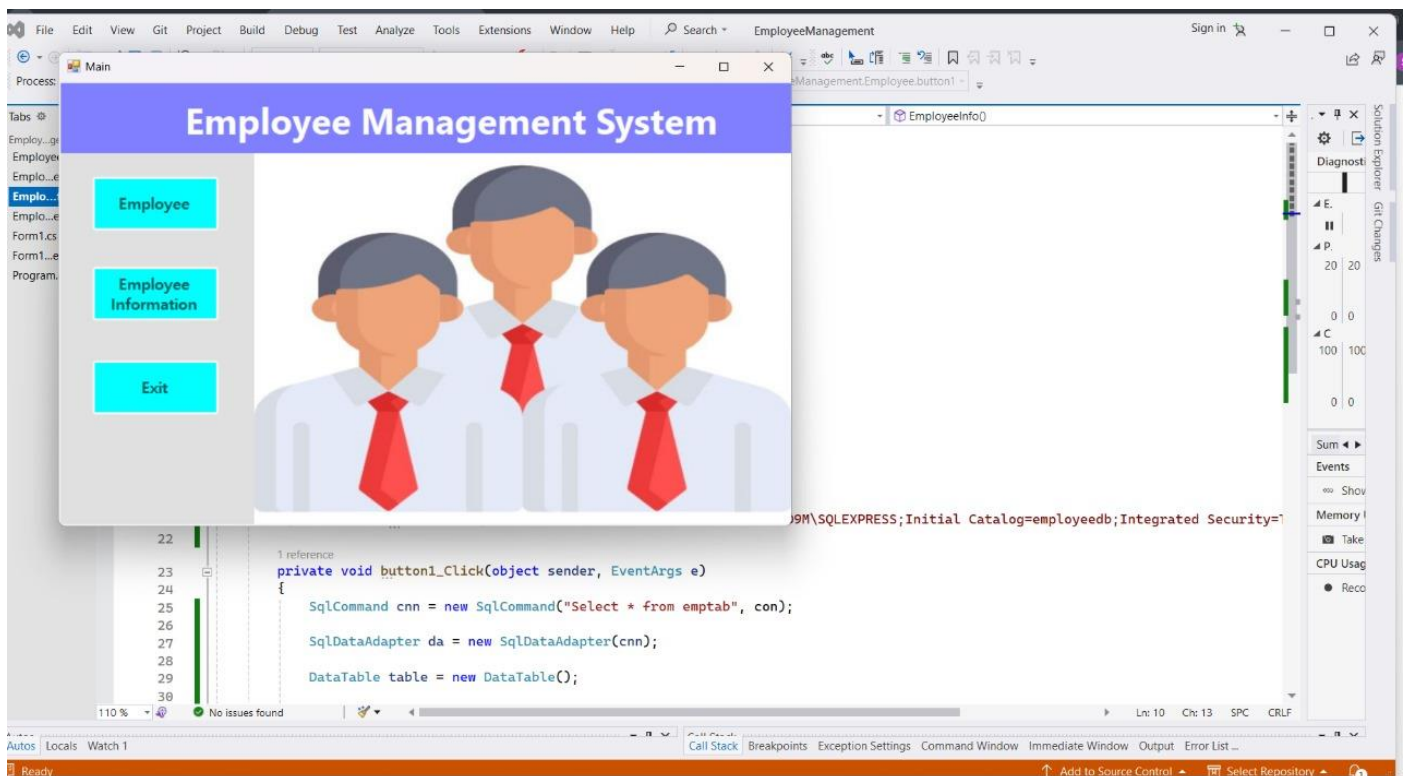
```

EmployeeInfo.Show();
}

private void button3_Click(object sender, EventArgs e)
{
    this.Close();
}
}
}

```

OUTPUT :



Employee2 page :

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;

```

```

using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.SqlClient;

namespace EmployeeManagement
{
    public partial class Employee : Form
    {
        public Employee()
        {
            InitializeComponent();

            SqlConnection con = new SqlConnection(@"Data Source=LAPTOP-
6UVAMD9M\SQLEXPRESS;Initial Catalog=employeedb;Integrated
Security=True;");

            private void Employee_Load(object sender, EventArgs e)
            {
                BindData();
            }

            void BindData()
            {
                SqlCommand cnn = new SqlCommand("Select * from emptab", con);
                SqlDataAdapter da = new SqlDataAdapter(cnn);
                DataTable table = new DataTable();
                da.Fill(table);
                dataGridView1.DataSource = table;
            } private void label7_Click(object sender, EventArgs e)
            {
            } private void textBox2_TextChanged(object sender, EventArgs e)
            private void button1_Click(object sender, EventArgs e)
                {con.Open();
                SqlCommand cnn = new SqlCommand("Insert into
                emptab(id,employee_name,age,email,salary,dob,benefit)

```



```

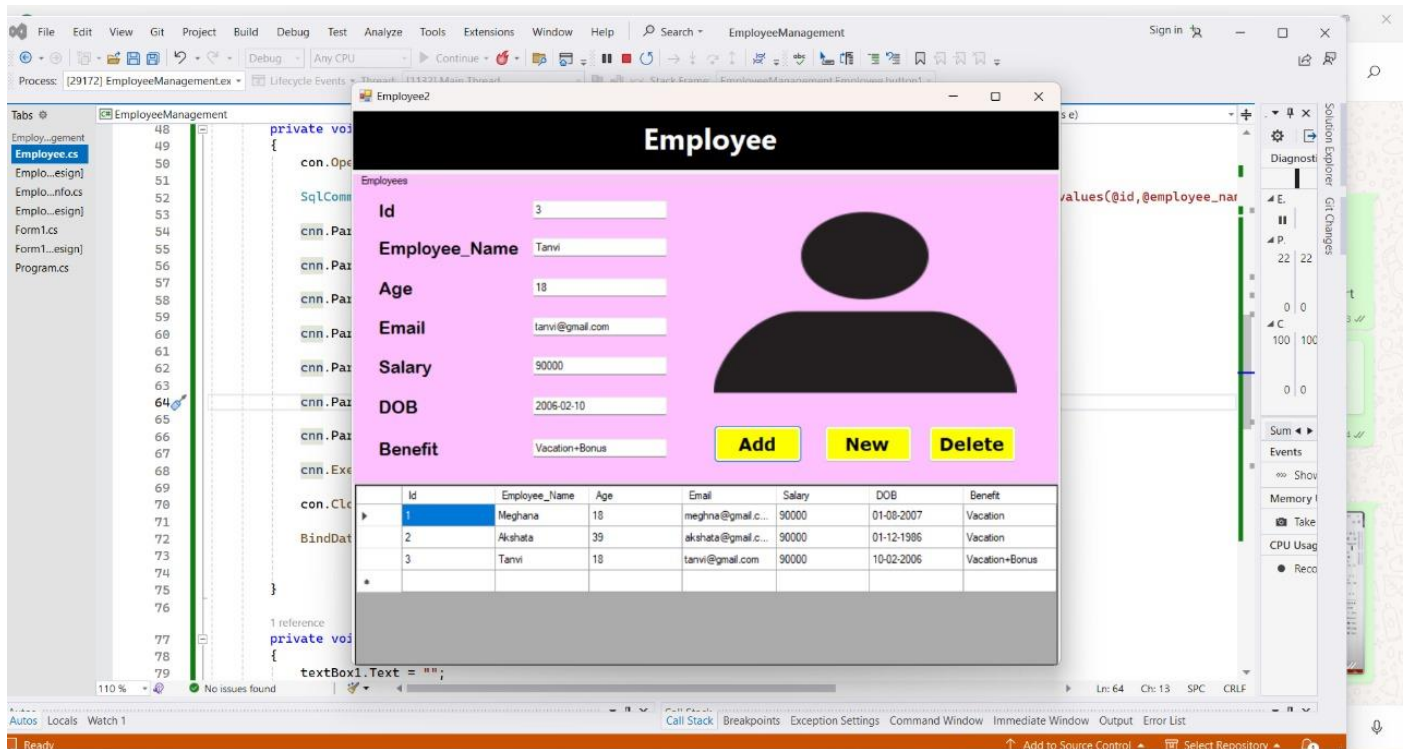
values(@id,@employee_name,@age,@email,@salary,@dob,@benefit)",con);
cnn.Parameters.AddWithValue("@Id", int.Parse(textBox1.Text));
cnn.Parameters.AddWithValue("@Employee_Name", textBox2.Text);
cnn.Parameters.AddWithValue("@Age", int.Parse(textBox3.Text));
cnn.Parameters.AddWithValue("@Email", textBox4.Text);
cnn.Parameters.AddWithValue("@Salary", int.Parse(textBox5.Text));
cnn.Parameters.AddWithValue("@Dob", DateTime.Parse(textBox6.Text));
cnn.Parameters.AddWithValue("@Benefit", textBox7.Text);
cnn.ExecuteNonQuery();
con.Close();
BindData();}

private void button2_Click(object sender, EventArgs e)
{
    textBox1.Text = "";
    textBox2.Text = "";
    textBox3.Text = "";
    textBox4.Text = "";
    textBox5.Text = "";
    textBox6.Text = "";
    textBox7.Text = "";}

private void button3_Click(object sender, EventArgs e){
SqlConnection con = new SqlConnection(@"Data Source=LAPTOP-
6UVAMD9M\SQLEXPRESS;Initial Catalog=employeedb;Integrated
Security=True;");
con.Open();
SqlCommand cnn = new SqlCommand("Delete emptab where
id=@id",con);
cnn.Parameters.AddWithValue("@Id", int.Parse(textBox1.Text));
cnn.ExecuteNonQuery();
con.Close();MessageBox.Show("Data Deleted!!");}}

```

OUTPUT :



Employee Information page :

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.SqlClient;

namespace EmployeeManagement
{
    public partial class Form1 : Form
    {
        public Form1()
        {

```

```
InitializeComponent();
```

```
}
```

```
private void label1_Click(object sender, EventArgs e)
```

```
{
```

```
}
```

```
private void Form1_Load(object sender, EventArgs e)
```

```
{
```

```
}
```

```
private void button1_Click(object sender, EventArgs e)
```

```
{
```

```
    Employee EmployeeInfo = new Employee();
```

```
    EmployeeInfo.Show();
```

```
}
```

```
private void button2_Click(object sender, EventArgs e)
```

```
{
```

```
    EmployeeInfo EmployeeInfo = new EmployeeInfo();
```

```
    EmployeeInfo.Show();
```

```
}
```

```
private void button3_Click(object sender, EventArgs e)
```

```
{
```

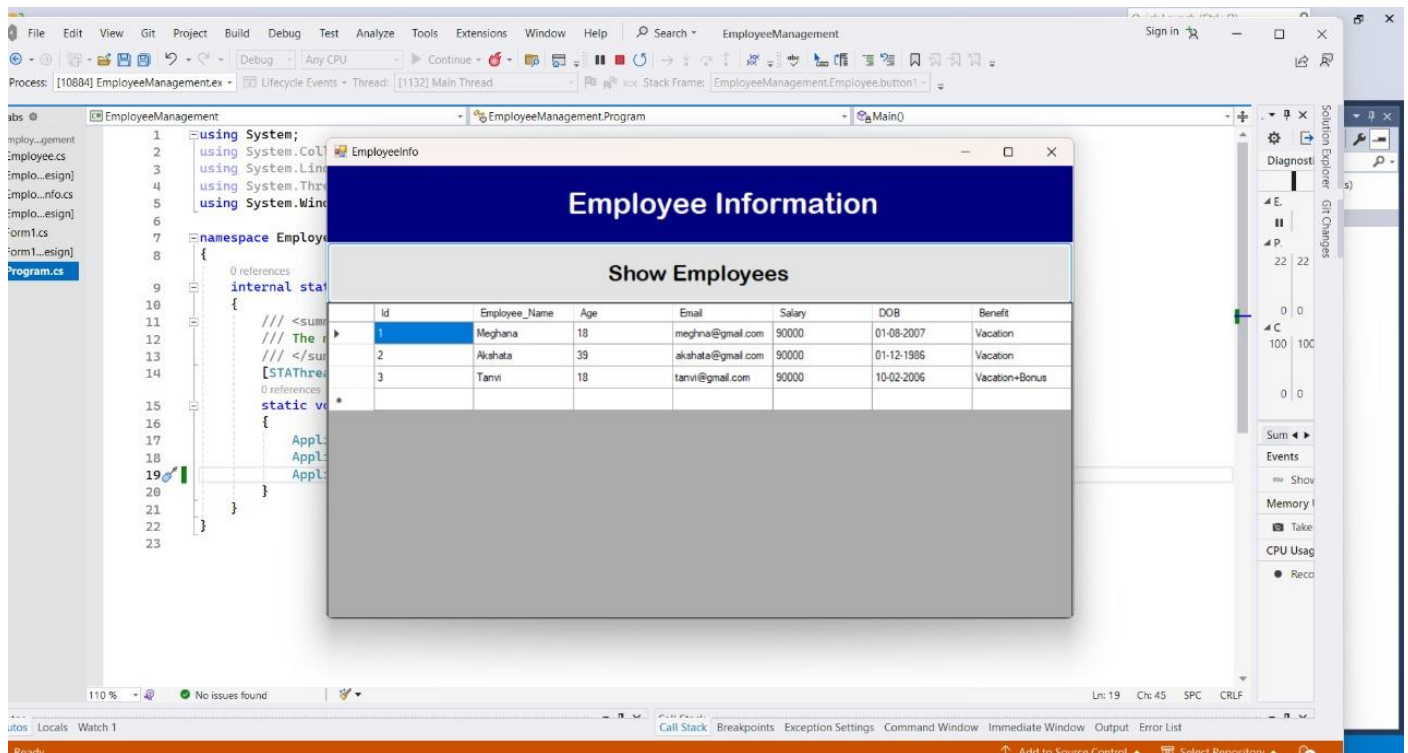
```
    this.Close();
```

```
}
```

```
}
```

```
}
```

OUTPUT :



❖ REFERENCE

During the development of our System, we have taken reference from following resources :

- YOUTUBE
- WEB BROWSER
- JAVA : THE COMPLETE REFERENCE BOOK

❖ CONCLUSION

The Employee Management System offers an effective solution for managing employee records in an organization. Its user-friendly interface and functionalities make it convenient for users to add, edit, and delete employee information. With its integration with a relational database management system like Microsoft SQL Server, the system ensures data integrity and security. Overall, the Employee Management System enhances the efficiency of HR processes within the organization.

THANK YOU !!!!