SE 101.3 –Object oriented Programming with C#

C# Application

ACADAMIC YEAR 2020

Human Rsesource Management System

CONTENTS AT A GLANCE

ACKNOWLEDGEMENT

We would like to express our special thanks of gratitude to our Lecturer Ms Sulari Fernando who gave us the golden opportunity to do this wonderful project to create our own application, which also helped us in doing a lot of Research and we came to know about so many new things that we are really thankful to.

Secondly we would also like to thank our friends who helped us a lot in finalizing this project within the limited time frame.

INTRODUCTION

Our thesis is about Designing and Interfacing an Human Resource Management system in a bank. It forms a basic entity of the management of a human resource mangement. Hence, it is very important for the system to be reliable, user friendly, and should be properly functional for a long time without cropping up of any errors.

ABSTRACT

Our motive is to develop a software that is very much user friendly and easy to gather information in a very short time. We try to make our software reliable and comfortable.

As our thesis paper is on Designing and Interfacing a Employee Management of a banking System we divide our work into two basic parts Designing part and Interfacing Part.

What is a Database?

A Database is a collection of records which are stored on a computer; a database organizes the data according to database models such as a relational model. [1]

Why do we need Databases?

Databases collect items on which the user can carry out various operations such as viewing, navigating, creating tables, and searching. Databases can be seen as a symbolic form of the computer age. [2]

We use databases for these reasons. Such as,

1. We use database because we can easily manipulate, edit or delete data.

2. Data are kept organized in a database so we can easily retrieve data.

3. Easy to find out desired data.

4. Data are secured.

ADVANTAGES OF DATABASE

Reduced Data Redundancy.

Reduced updating errors and increased consistency.

Greater data integrity and independence from applications programs.

Improved data access to users through use of host and query languages.

Improved data security.

Employee Table

Attrib utes	Data type
Emp_no	int
Emp_ad dress	varchar(20)
Contact _no	int
Salary	int

Payroll Table

Attributes	Data type
Emp_no	int

Monthly Interest	int
OT	int
Bonus	float
Interest Monthly Total	float

Login Table

Attributes	Data type
Uid	int
Username	varchar(20)
Password	varchar(20)

Position Table

Attributes	Data type
positionID	int
Position n ame	varchar(20)

Leave Table

Attributes	Data type
Employee_no	varchar(20)
Employee_na me	varchar(20)
Department	varchar(20)
reason	varchar(20)
Other	varchar(20)

PROJECT PLAN

In this chapter we discuss how we planned to create our System

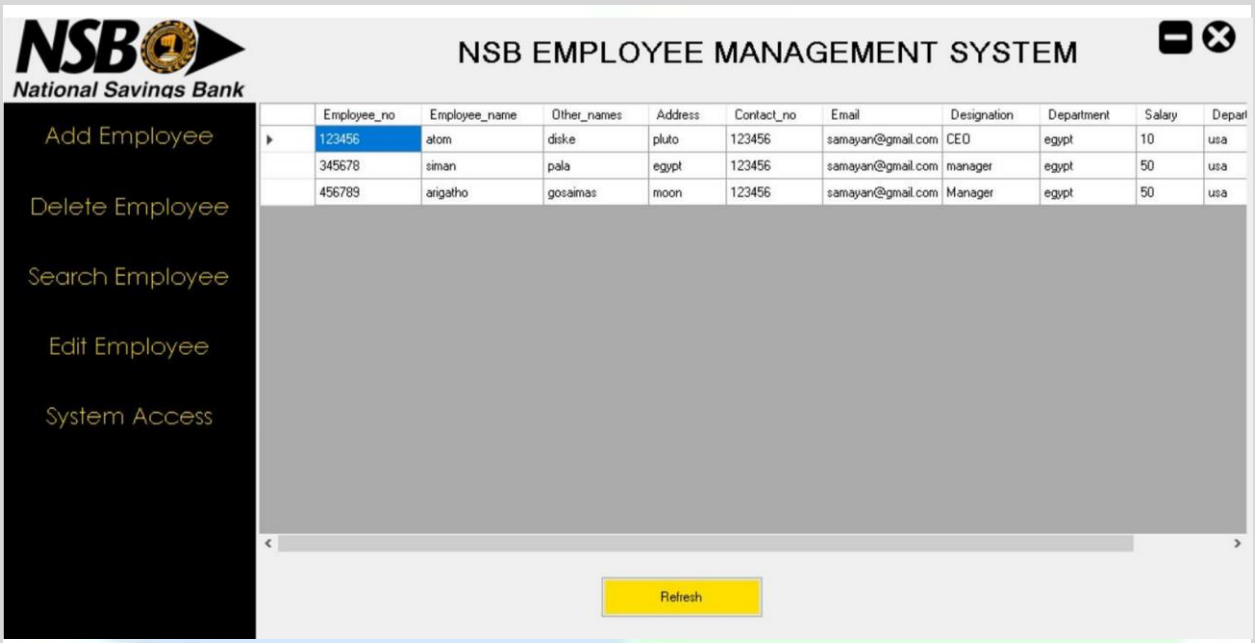
The time period allocated for the necessary tasks are listed in the below chart

Main Page

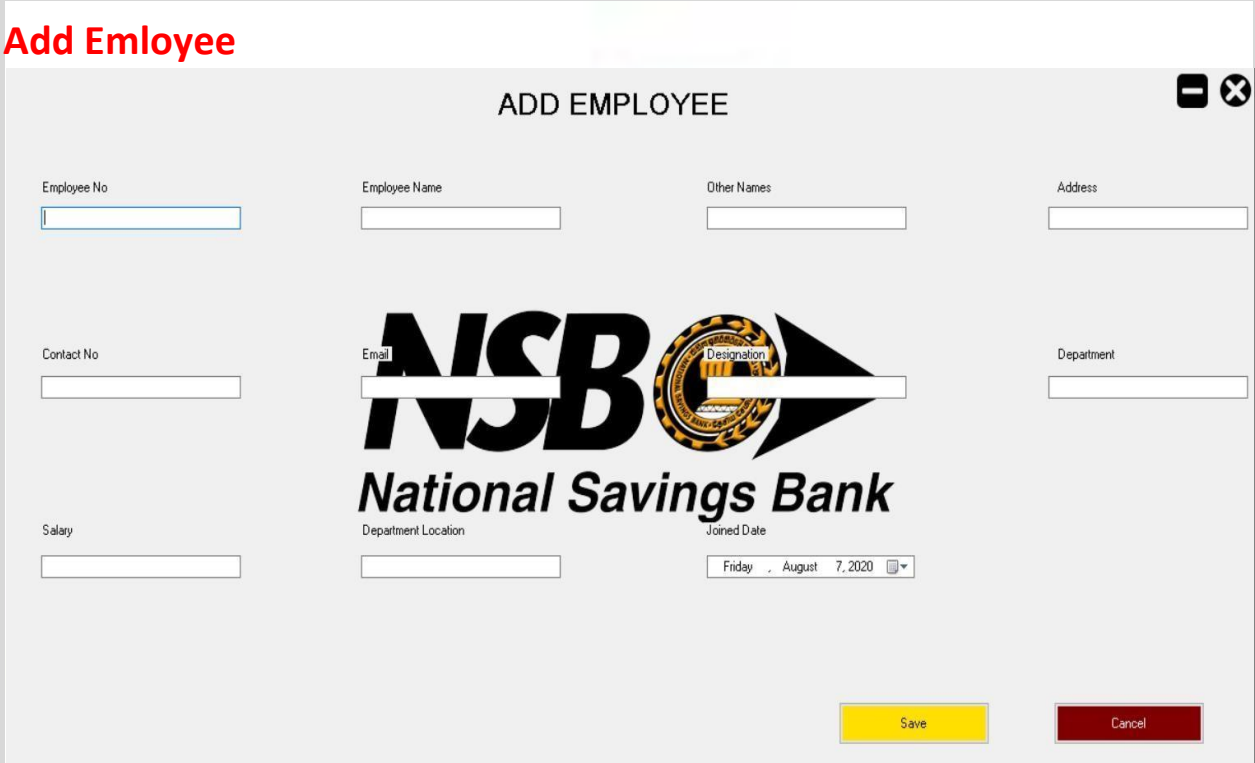

NSB
National Savings Bank
Human Resource Management System
Personnel
Recruitment
Attendence
Leave
Payroll
Training
Reports
System Management

Payroll system

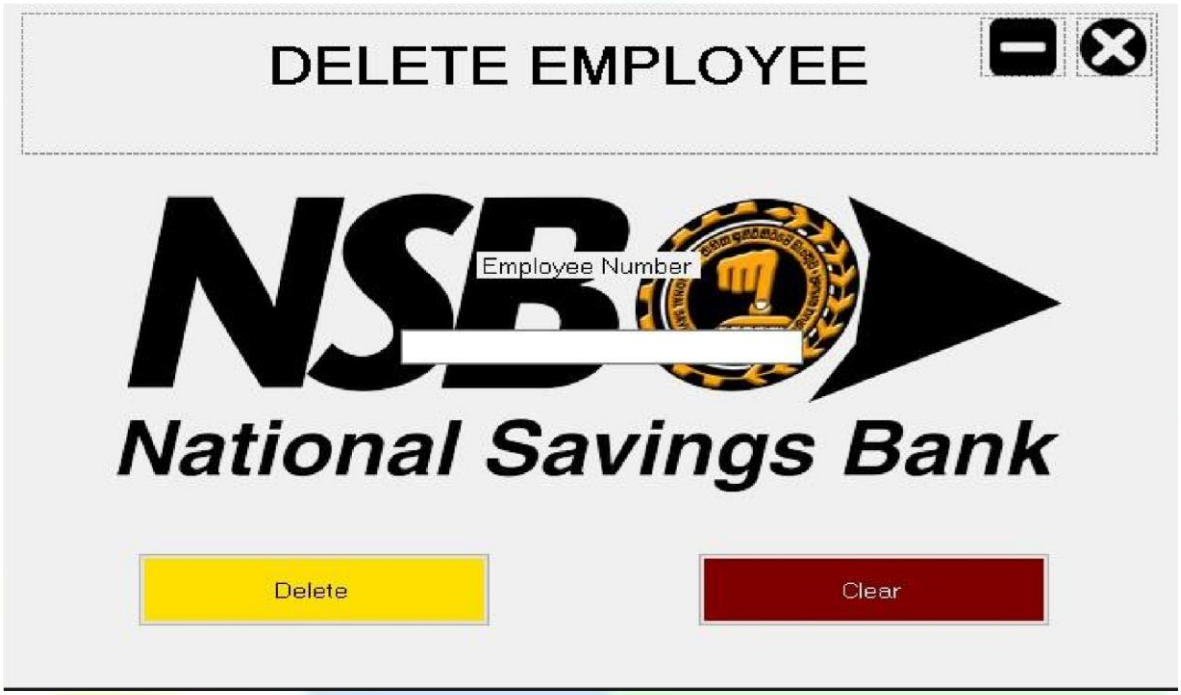
Crud application


NSB
National Savings Bank
NSB EMPLOYEE MANAGEMENT SYSTEM
Add Employee
Delete Employee
Search Employee
Edit Employee
System Access
Employee_no
Employee_name
Other_names
Address
Contact_no
Email
Designation
Department
Salary
Depart
123456
atom
diske
pluto
123456
samayan@gmail.com
CEO
egypt
10
usa
345678
siman
pala
egypt
123456
samayan@gmail.com
manager
egypt
50
usa
456789
arigatho
gosaimas
moon
123456
samayan@gmail.com
Manager
egypt
50
usa
Refresh

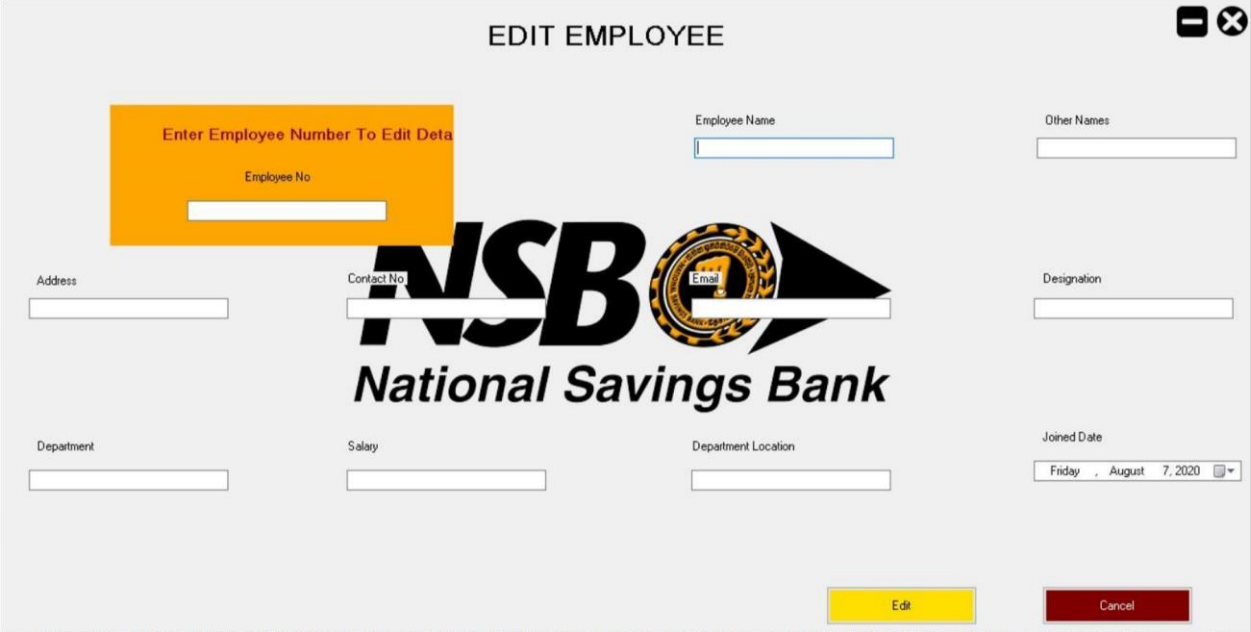
Add Emloyee


ADD EMPLOYEE
Employee No
Employee Name
Other Names
Address
Contact No
Email
Designation
Department
National Savings Bank
Salary
Department Location
Joined Date
Friday , August 7, 2020
Save
Cancel

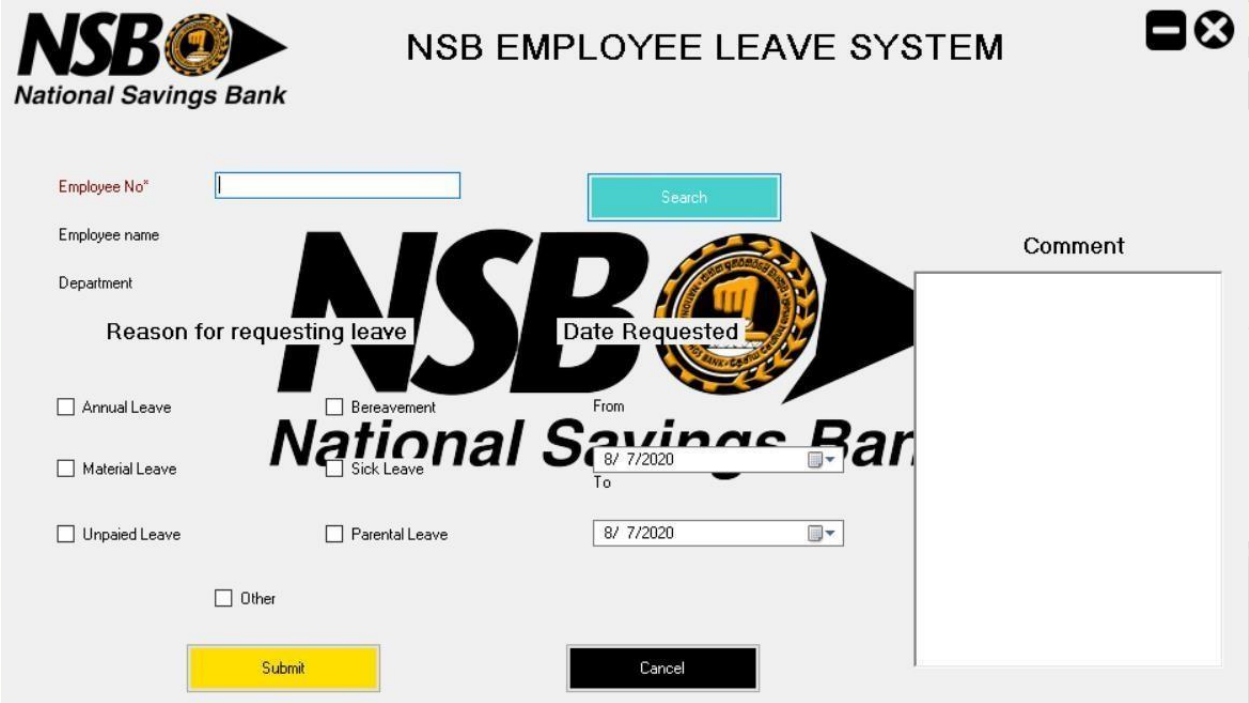
Delete Employee



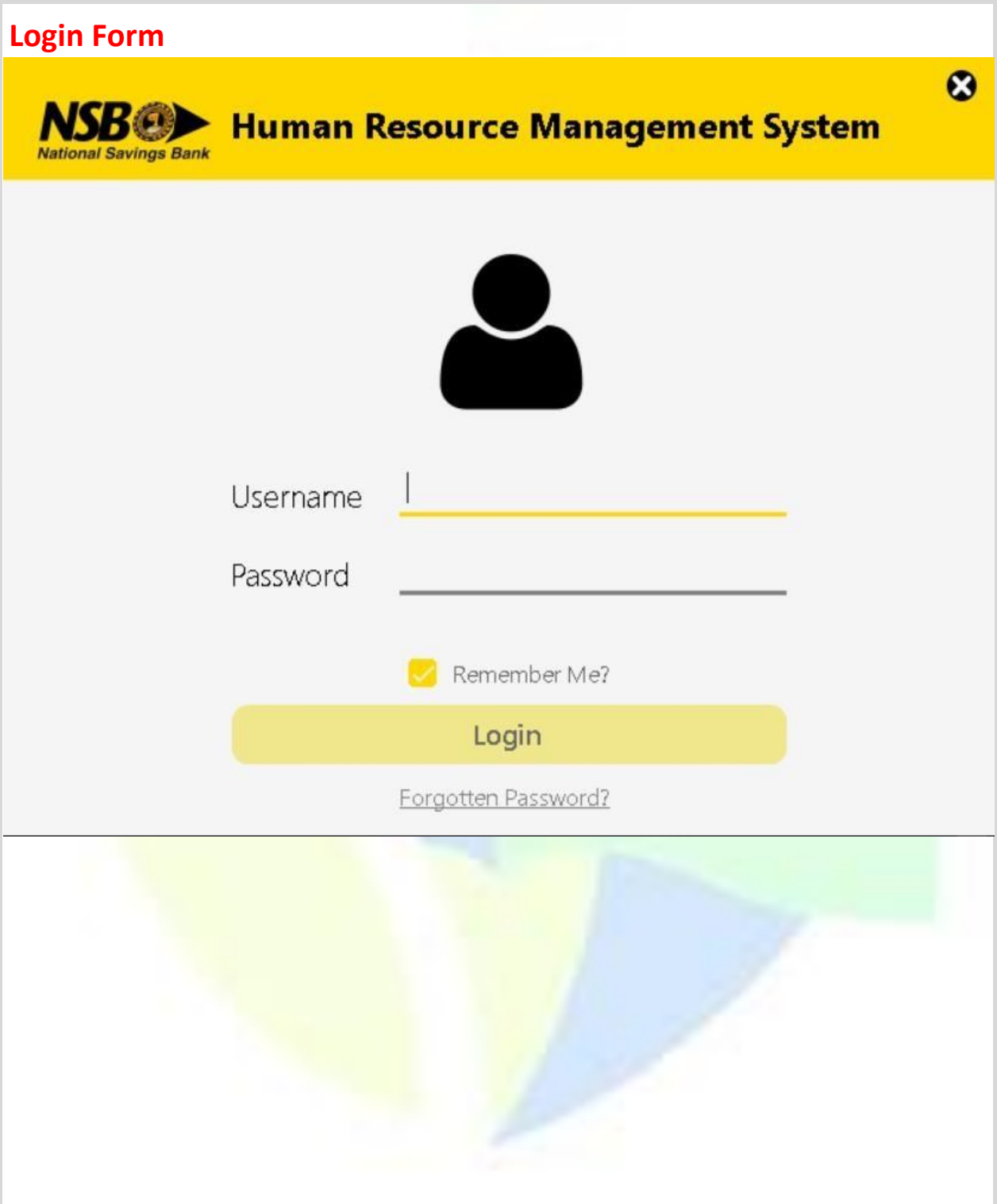
Edit Employee Table



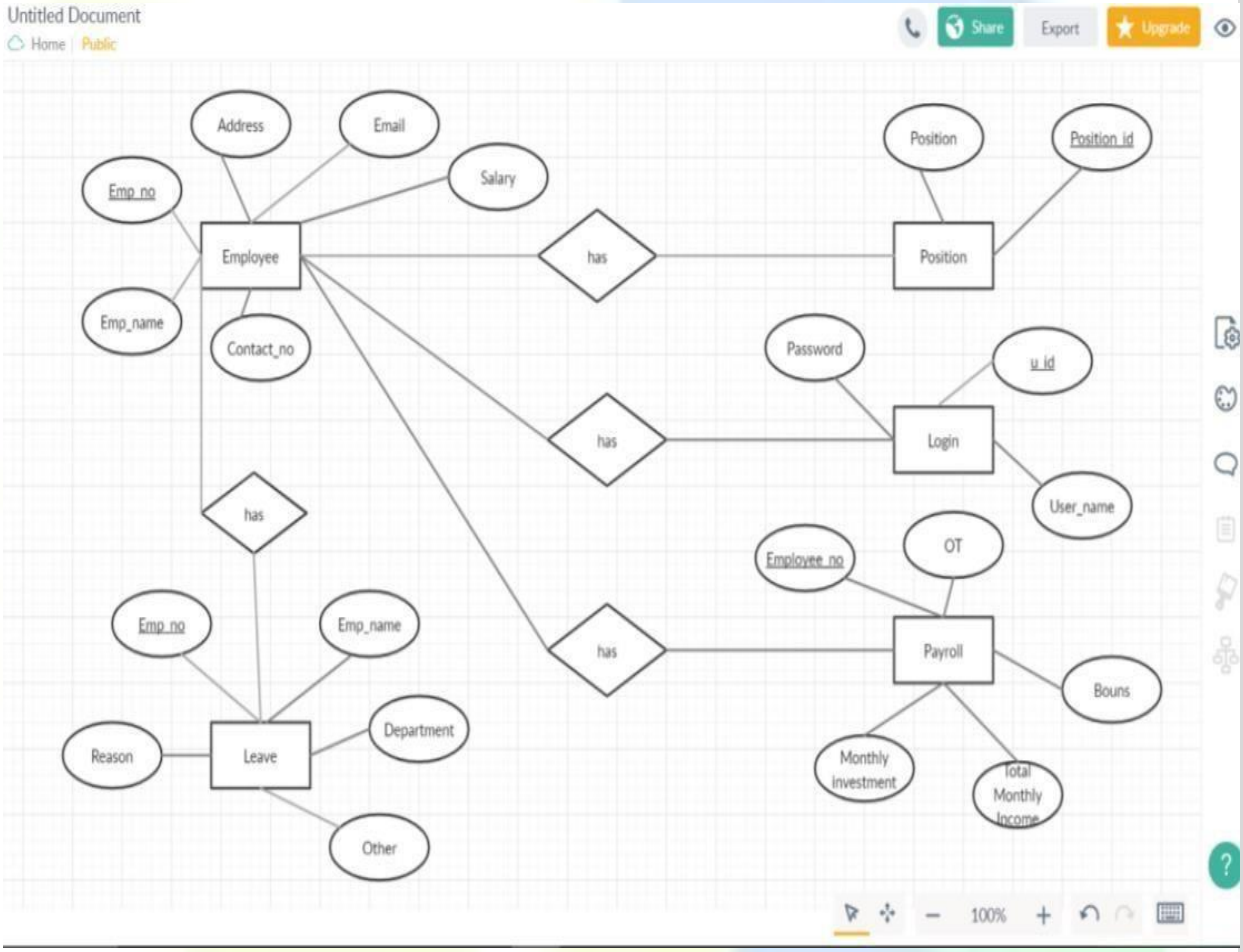
Employee Leave System.



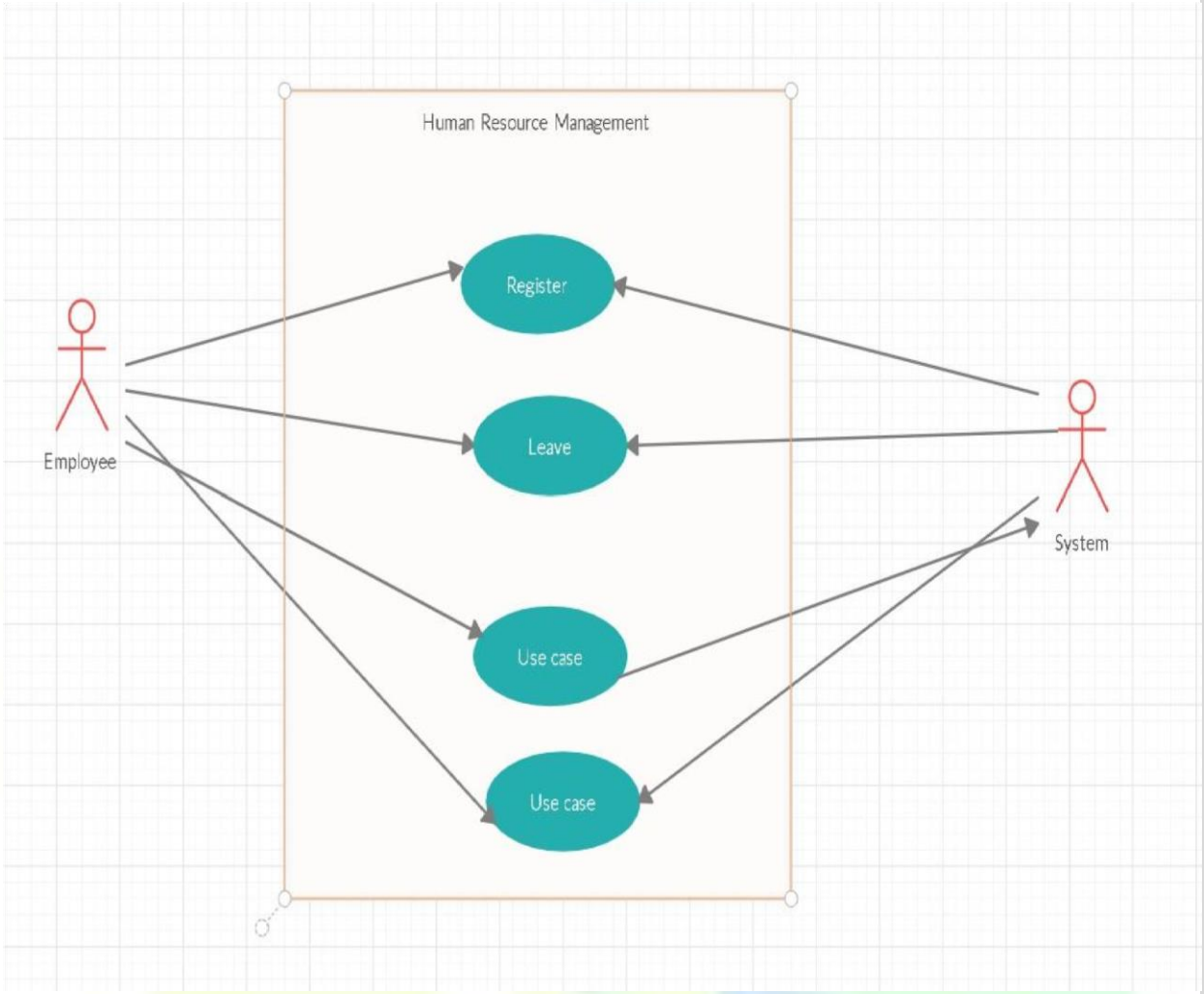
Login Form


NSB
National Savings Bank
Human Resource Management System
Username
Password
Remember Me?
Login
Forgotten Password?

ER Diagram


Untitled Document
Home
Public
Share
Export
Upgrade
Address
Email
Salary
Emp_no
Employee
Emp_name
Contact_no
has
Position
Position_id
Position
Password
u_id
Login
User_name
has
has
has
Employee_no
OT
Payroll
Bouns
Monthly investment
Total Monthly Income
Emp_no
Emp_name
Reason
Leave
Department
Other
100%

Use Case Diagram

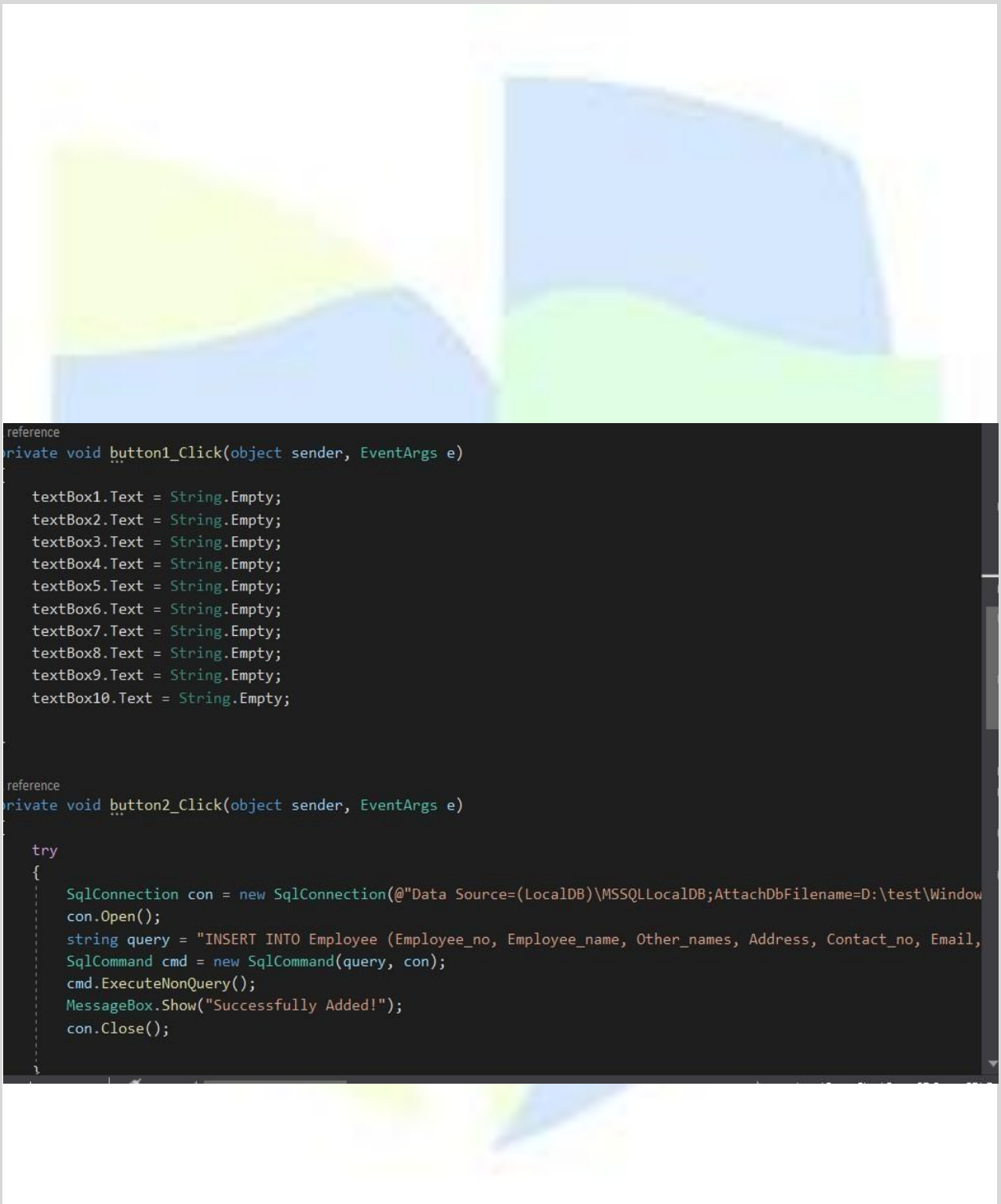


Crud operations

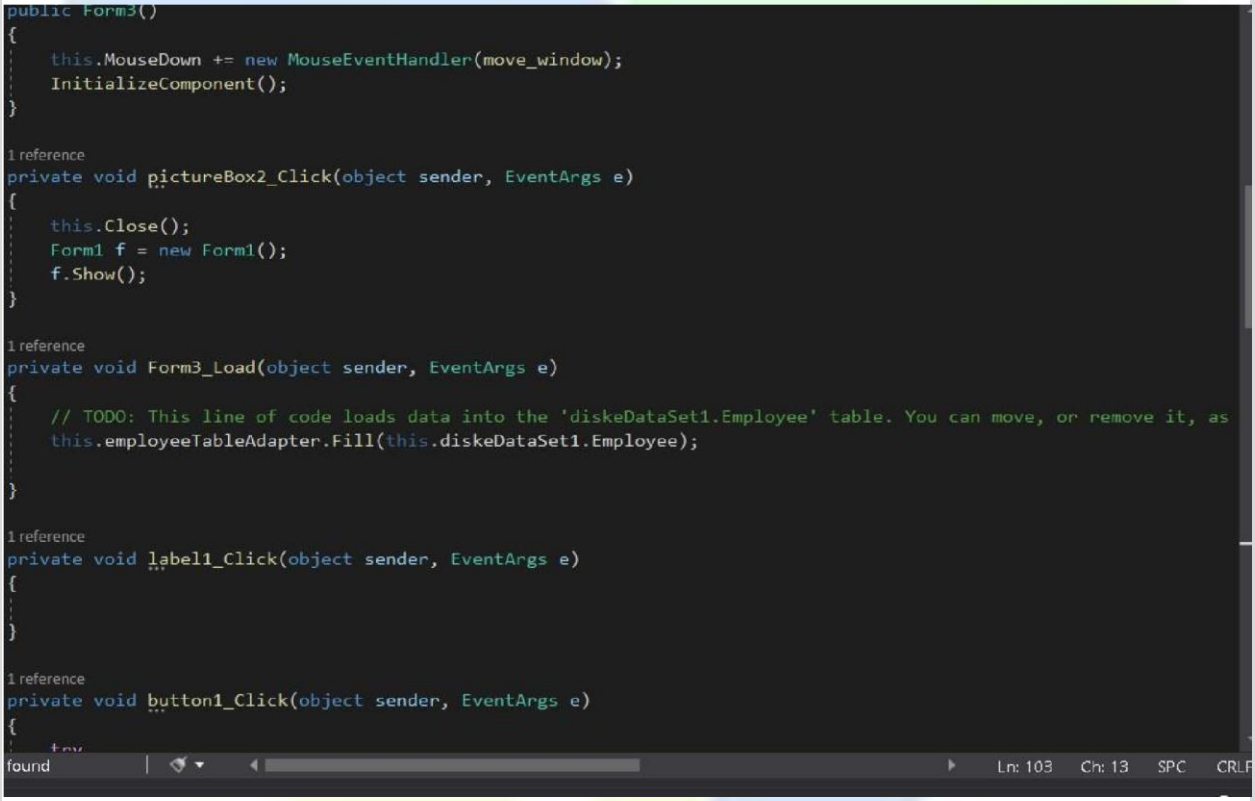
```
espace WindowsFormsApp1

14 references
public partial class Form1 : Form
{
    [DllImportAttribute("user32.dll")]
    1 reference
    public static extern int SendMessage(IntPtr hWnd, int Msg, int wParam, int LPAR);
    This method has 1 reference(s). (Alt+2)  1")]
    1 reference
    public static extern bool ReleaseCapture();

    const int WM_NCLBUTTONDOWN = 0xA1;
    const int HT_CAPTION = 0x2;

    1 reference
    private void move_window(object sender, MouseEventArgs e)
    {
        if (e.Button == MouseButtons.Left)
        {
            ReleaseCapture();
            SendMessage(this.Handle, WM_NCLBUTTONDOWN, HT_CAPTION, 0);
        }
    }



    6 references
    public Form1()
    {
```

```
}

1 reference
private void Form1_Load(object sender, EventArgs e)
{

    this.employeeTableAdapter.Fill(this.diskeDataSet.Employee);

}

1 reference
private void bunifuTileButton3_Click(object sender, EventArgs e)
{
    Form3 f = new Form3();
    f.Show();

    this.Hide();
}

1 reference
private void bunifuTileButton2_Click(object sender, EventArgs e)
{
    Form4 f = new Form4();
    f.Show();

    this.Hide();
}

1 reference
private void bunifuTileButton4_Click(object sender, EventArgs e)
```

```
1 reference
public Form2()
{
    this.MouseDown += new MouseEventHandler(move_window);
    InitializeComponent();
}

1 reference
private void Form2_Load(object sender, EventArgs e)
{

}

1 reference
private void pictureBox2_Click(object sender, EventArgs e)
{
    this.Close();
    Form1 f = new Form1();
    f.Show();
}

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

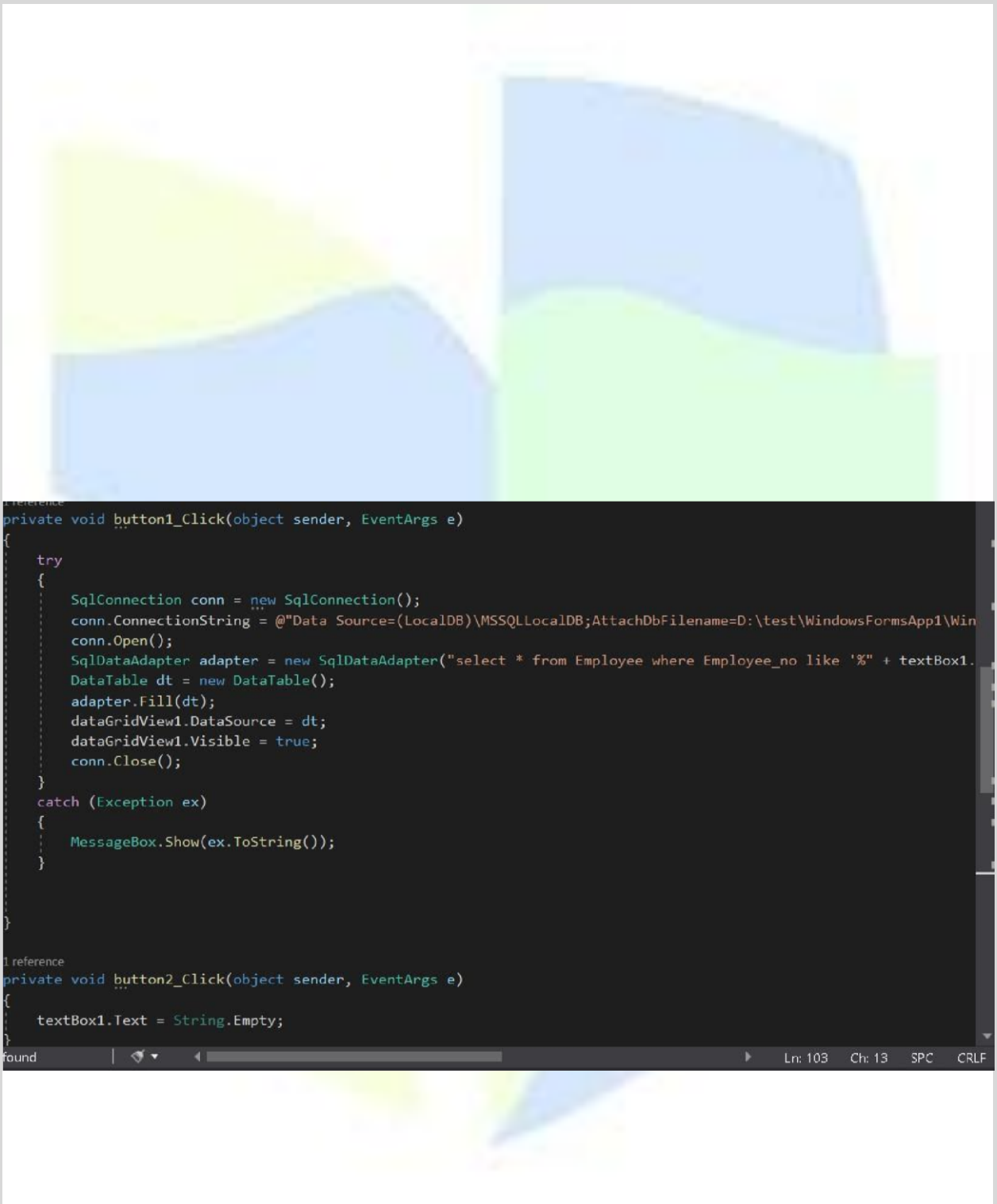


```
reference
private void button1_Click(object sender, EventArgs e)
{
    textBox1.Text = String.Empty;
    textBox2.Text = String.Empty;
    textBox3.Text = String.Empty;
    textBox4.Text = String.Empty;
    textBox5.Text = String.Empty;
    textBox6.Text = String.Empty;
    textBox7.Text = String.Empty;
    textBox8.Text = String.Empty;
    textBox9.Text = String.Empty;
    textBox10.Text = String.Empty;


}

reference
private void button2_Click(object sender, EventArgs e)
{
    try
    {
        SqlConnection con = new SqlConnection(@"Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=D:\test\Window
        con.Open();
        string query = "INSERT INTO Employee (Employee_no, Employee_name, Other_names, Address, Contact_no, Email,
        SqlCommand cmd = new SqlCommand(query, con);
        cmd.ExecuteNonQuery();
        MessageBox.Show("Successfully Added!");
        con.Close();

    }
```

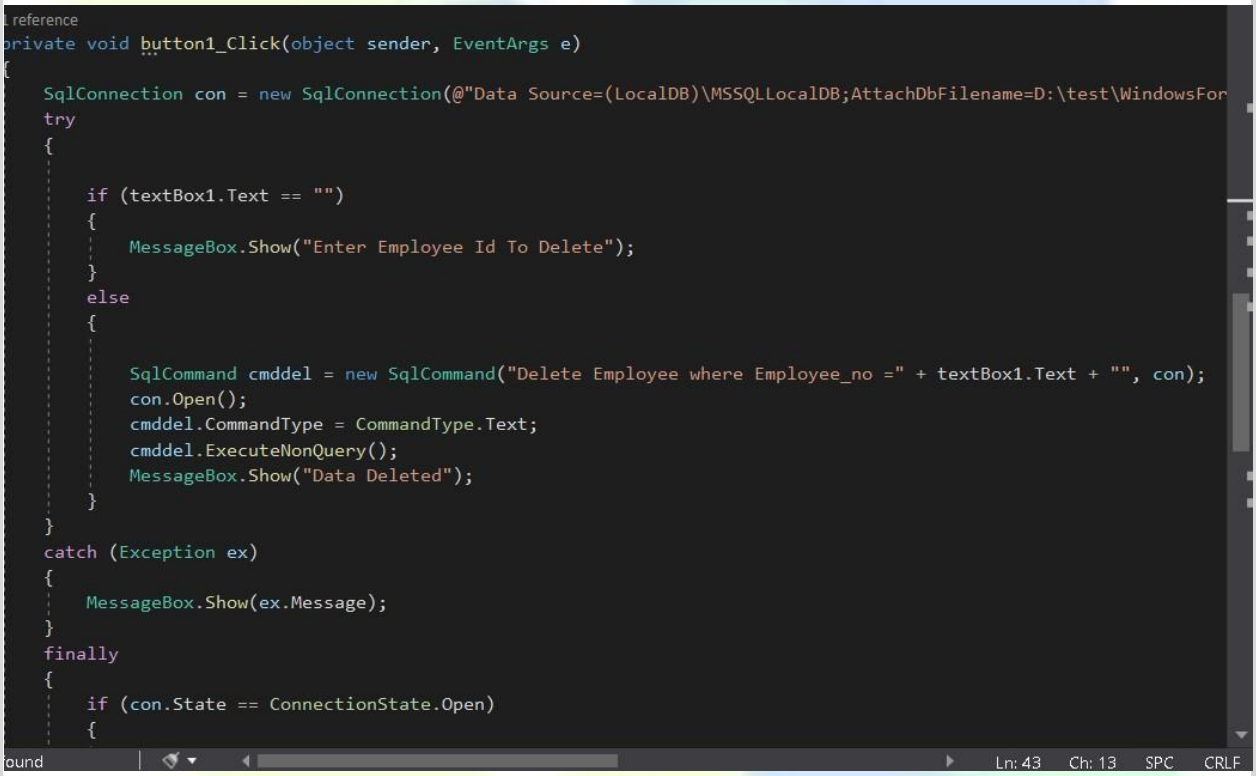


```
public Form3()
{
    this.MouseDown += new MouseEventHandler(move_window);
    InitializeComponent();
}

1 reference
private void pictureBox2_Click(object sender, EventArgs e)
{
    this.Close();
    Form1 f = new Form1();
    f.Show();
}

1 reference
private void Form3_Load(object sender, EventArgs e)
{
    // TODO: This line of code loads data into the 'diskeDataSet1.Employee' table. You can move, or remove it, as
    this.employeeTableAdapter.Fill(this.diskeDataSet1.Employee);

}

1 reference
private void label1_Click(object sender, EventArgs e)
{

}

1 reference
private void button1_Click(object sender, EventArgs e)
{
    try
```

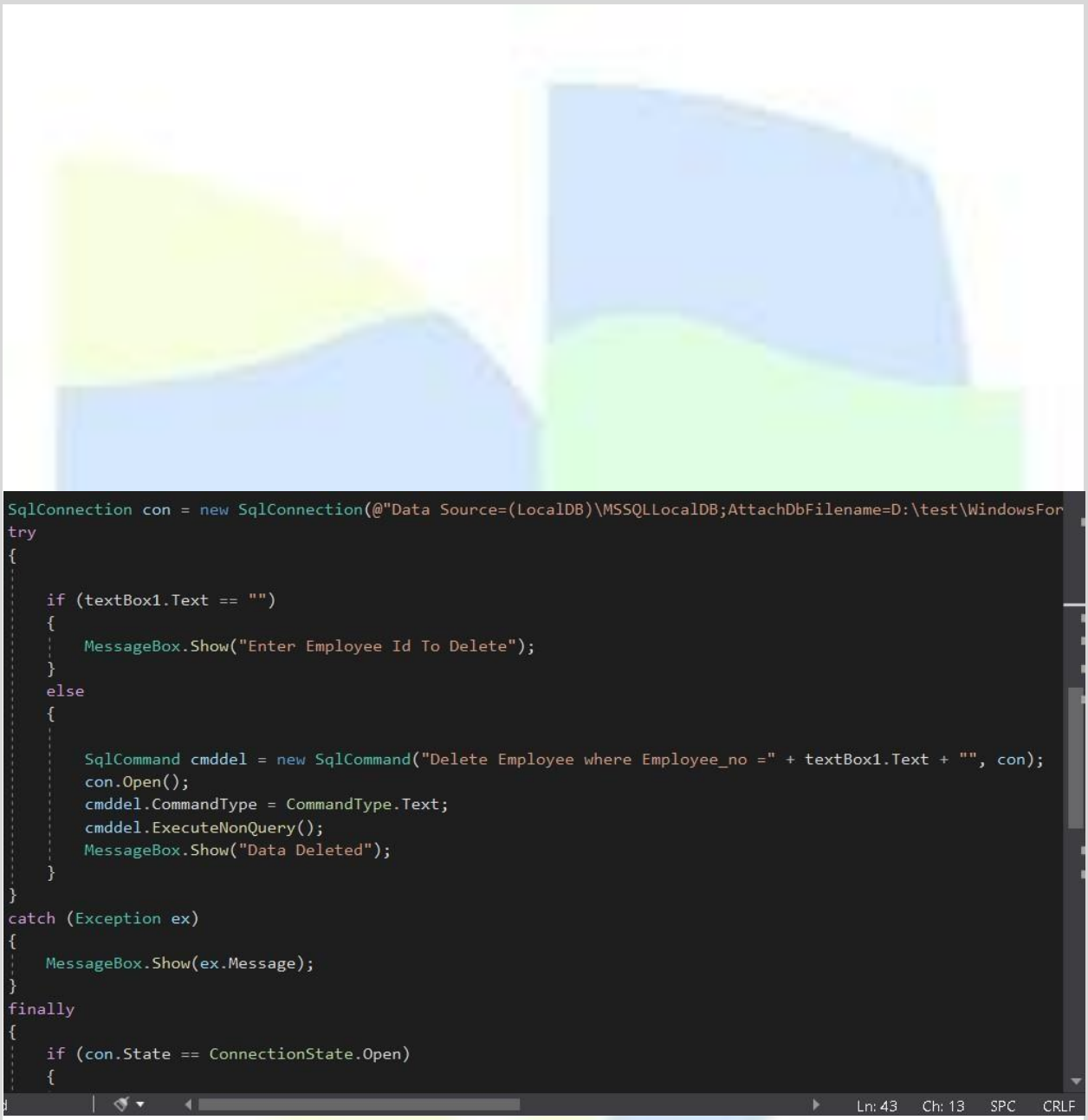
found | Ln: 103 Ch: 13 SPC CRLF



```
1 reference
private void button1_Click(object sender, EventArgs e)
{
    try
    {
        SqlConnection conn = new SqlConnection();
        conn.ConnectionString = @"Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=D:\test\WindowsFormsApp1\Win
        conn.Open();
        SqlDataAdapter adapter = new SqlDataAdapter("select * from Employee where Employee_no like '%" + textBox1.
        DataTable dt = new DataTable();
        adapter.Fill(dt);
        dataGridView1.DataSource = dt;
        dataGridView1.Visible = true;
        conn.Close();
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.ToString());
    }


}

1 reference
private void button2_Click(object sender, EventArgs e)
{
    textBox1.Text = String.Empty;
}
```



```
1 reference
private void button1_Click(object sender, EventArgs e)
{
    SqlConnection con = new SqlConnection(@"Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=D:\test\WindowsFor
    try
    {

        if (textBox1.Text == "")
        {
            MessageBox.Show("Enter Employee Id To Delete");
        }
        else
        {

            SqlCommand cmddel = new SqlCommand("Delete Employee where Employee_no =" + textBox1.Text + "", con);
            con.Open();
            cmddel.CommandType = CommandType.Text;
            cmddel.ExecuteNonQuery();
            MessageBox.Show("Data Deleted");
        }
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message);
    }
    finally
    {
        if (con.State == ConnectionState.Open)
        {
```



```
SqlConnection con = new SqlConnection(@"Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=D:\test\WindowsFor
try
{

    if (textBox1.Text == "")
    {
        MessageBox.Show("Enter Employee Id To Delete");
    }
    else
    {

        SqlCommand cmddel = new SqlCommand("Delete Employee where Employee_no =" + textBox1.Text + "", con);
        con.Open();
        cmddel.CommandType = CommandType.Text;
        cmddel.ExecuteNonQuery();
        MessageBox.Show("Data Deleted");
    }
}
catch (Exception ex)
{
    MessageBox.Show(ex.Message);
}
finally
{
    if (con.State == ConnectionState.Open)
    {
```

CONTRIBUTION

Student ID	Name	Workload
18409	B.P.P.Silva	Home Page Database Update Report
18419	N.N.D.G. Liyanage	Add Employ Login Delete operations Report

CERTIFICATE

THIS IS TO CERTIFY THAT THE GROUP " C# GROUP"
HAS COMPLETED THE PROJECT REPORT ON,

"DEVELOPING A C# PROJECT FOR " NSB BANKING SYSTEM"
SATISFACTORILY UNDER THE SCHOOL OF COMPUTING DURING THE ACADEMIC 1ST YEAR 2ND SEMESTER.

…… ……

INTERNAL GUIDE

…… ……

INTERNAL EXAMINER

…… ……

HEAD OF DEPARTMENT

THANK YOU !