

C# Project – HND 30

Login Form



❖ Text Boxes:

Used KeyDown for Next TAB

No need to press [Tab] button and do same thing using [Enter] Key

```
private void TxtUserName_KeyDown(object sender, KeyEventArgs e)
{
    if(e.KeyCode == Keys.Enter)
    {
        SendKeys.Send("{TAB}");
    }
}
```

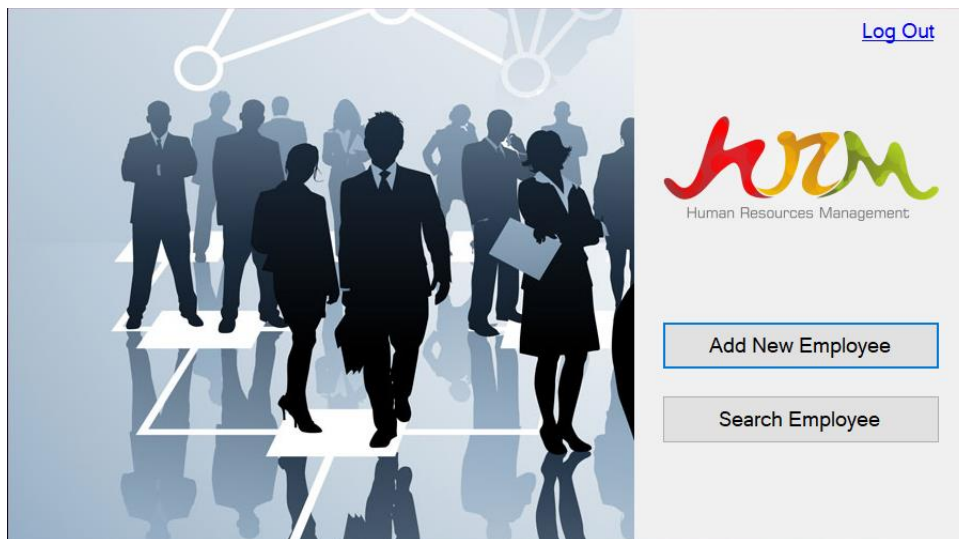
❖ User Name & Password

Avoid null username/password

The image shows two side-by-side screenshots of the login form. The left screenshot shows the form with empty 'User Name' and 'Password' fields. Below the fields, there is a red error message: 'Please provide UserName and Password'. The 'Login' button is highlighted with a blue border. The right screenshot shows the form with 'admin' entered in the 'User Name' field and '#####' in the 'Password' field. The 'Login' button is also visible.

- Login Other Method is [Alt] + L for Login
- [Alt] + O for Search Employee

Main Page



[Alt] + A for Add New Employee

[Alt] + S for Search Employee

Employee Registration

❖ Employee ID

Employee ID is auto generated

Start from 5000 and +2 is auto increment

Identity Specification	
(Is Identity)	Yes
Identity Increment	2
Identity Seed	5000

Calculator

The screenshot displays a web application interface for a salary calculator. A modal dialog box is open, titled 'Calculator', with a close button (X) in the top right corner. The dialog contains four input fields: 'Basic Salary' (with a value of 0), 'Basic Allowance' (with a value of 0), 'Travelling Allowance' (with a value of 0), and 'Other' (with a value of 0). Below these fields is a 'Calculate' button and a 'Gross Salary' field showing a value of 0. An 'OK' button is located at the bottom right of the dialog. In the background, the 'New Employee Form' is visible, featuring input fields for 'Employee ID', 'Employee Name', 'Age', 'Mobile', and 'Gender'. Navigation buttons include '<- Back', 'Register', and 'Clear Data'. The top right of the page shows a 'Log Out' link and the 'HRM Human Resources Management' logo.

❖ Gross Salary

Used Get method for pass Gross Salary to Salary (Rs) in New Employee Form

```
public string subtotal
{
    get { return txtTotal.Text; }
}
```

```
private void LinkCalculator_LinkClicked(object sender, LinkLabelLinkClickedEventArgs e)
{
    Calculator cal = new Calculator();
    cal.ShowDialog();

    txtSalary.Text = cal.subtotal;
}
```


❖ Clear Data

Use a method for clear data

```
private void ClearData()
{
    txtName.Text = "";
    txtAge.Text = "";
    txtMobile.Text = "";
    comboGender.Text = "";
    comboDepartment.Text = "";
    txtSalary.Text = "";
}
```

Search

Search


Human Resources Management

	emp_id	emp_name	age	mobile	department	salary
▶	5000	amal	20	0711234567	Human Resorce	50000.0000
	5002	nimal	21	0711234567	Management	60000.0000
	5004	kamal	22	0711234567	Academic	25000.0000
	5006	bimal	32	0711234567	Human Resorce	30000.0000
	5008	vimal	25	0711234567	Management	32000.0000
	5010	siriyalatha	22	0711234567	Academic	68000.0000
	5012	priyanwada naga...	55	0711234567	Human Resorce	72000.0000
	5014	kamalawathi	54	0711234567	Management	90000.0000
	5016	dulani	35	0711234567	Academic	36000.0000
	5018	shalani	20	0711234567	Human Resorce	85000.0000
	5020	ruwan	29	0711234567	Management	45000.0000
	5022

Exit

Load all employee data in loading

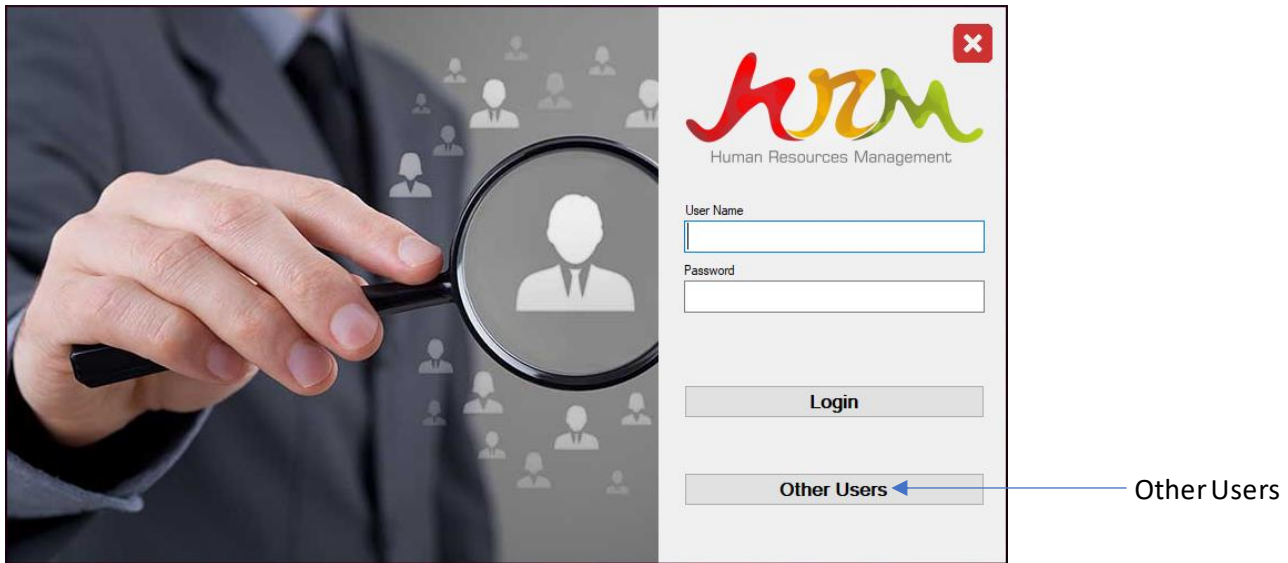
```
private void Search_Load(object sender, EventArgs e)
{
    pibtnconnect.Open();
    SqlCommand cmd = new SqlCommand("SELECT emp_id,emp_name,age,mobile,department,salary FROM empz_table", pibtnconnect);
    cmd.ExecuteNonQuery();
    DataTable dt = new DataTable();
    SqlDataAdapter sda = new SqlDataAdapter(cmd);
    sda.Fill(dt);
    dataGridView.DataSource = dt;
    pibtnconnect.Close();
}
```

Search Department by selecting

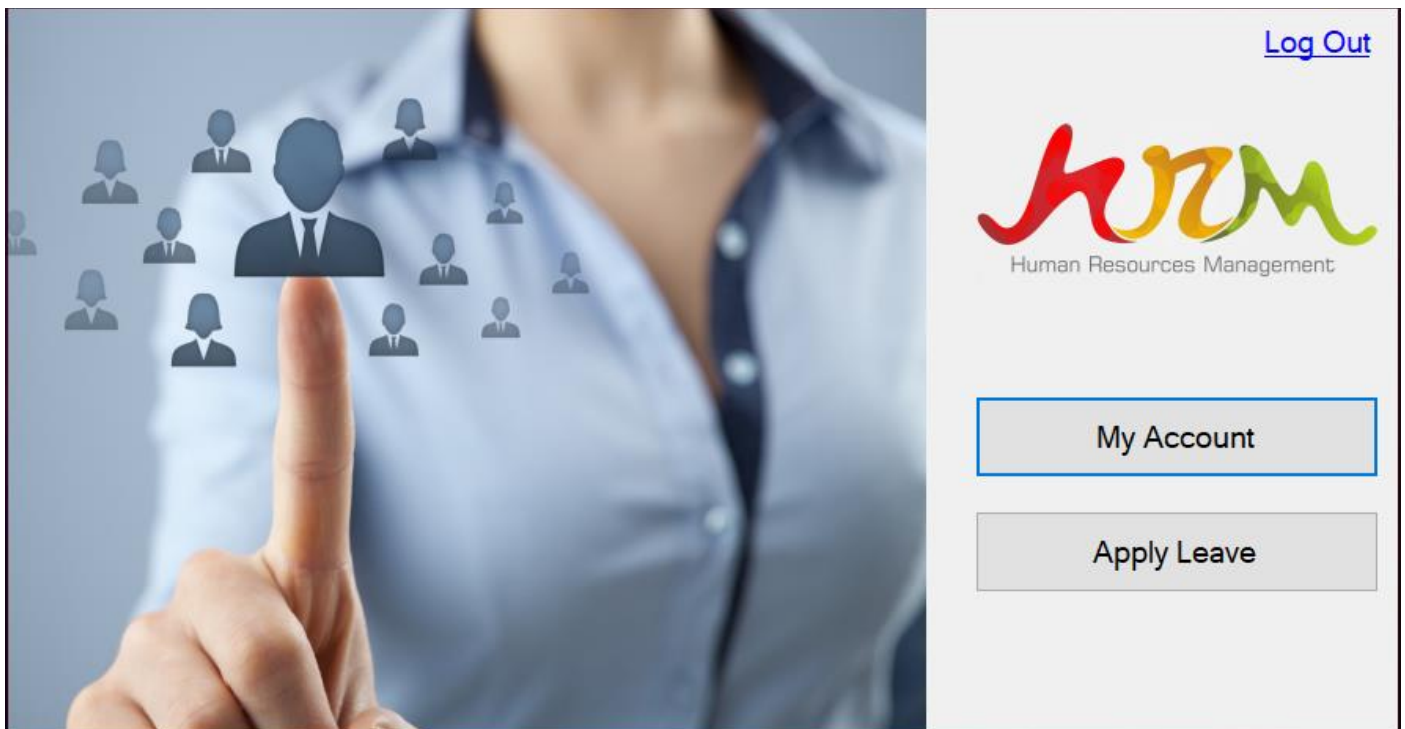
```
private void BtnSearch_Click(object sender, EventArgs e)
{
    pibtnconnect.Open();
    SqlCommand cmd = new SqlCommand("SELECT emp_id,emp_name,age,mobile,department,salary FROM empz_table WHERE Department='" + comboDepartment.Text + "'", pibtnconnect);
    cmd.ExecuteNonQuery();
    DataTable dt = new DataTable();
    SqlDataAdapter sda = new SqlDataAdapter(cmd);
    sda.Fill(dt);
    dataGridView.DataSource = dt;
    pibtnconnect.Close();
}
```

For Other Users

There was no proper login method in coursework and used a button in login form for other users




Users Main Page




[Alt] + M for My Account

[Alt] + A for Apply Leave

My Account




My Account

[Log Out](#)


Human Resources Management

Employee ID	<input type="text"/>	<input type="button" value="Search"/>	Department	<input type="text"/>
Employee Name	<input type="text"/>		Salary (Rs)	<input type="text"/>
Age	<input type="text"/>			
Mobile	<input type="text"/>			
Gender	<input type="text"/>	<input type="button" value="Enable"/>		
<input type="button" value="Update"/>				

- All Text Boxes are Read only.
- Must use Employee ID for Editing




My Account

[Log Out](#)


Human Resources Management

Employee ID	5024	<input type="button" value="Search"/>	Department	Human Resorce
Employee Name	shazni		Salary (Rs)	85000.0000
Age	21			
Mobile	0711234567			
Gender	Male	<input type="button" value="Enable"/>		
<input type="button" value="Update"/>				

❖ Click Enable



My Account

[Log Out](#)

Human Resources Management

Employee ID	5024	<input type="button" value="Search"/>	Department	Human Resorce
Employee Name	shazni		Salary (Rs)	85000.0000
Age	21			
Mobile	0711234567			
Gender	Male	<input type="button" value="Enable"/>		
<input type="button" value="Update"/>				

Due to Security issues,

- ✓ Gender is Locked
- ✓ Department is Locked
- ✓ Salary is Locked

Coursework shows enable all textboxes but it is unsecured.

Used a method for enable read-only.

```
private void enabletxt()
{
    txtName.ReadOnly = false;
    txtAge.ReadOnly = false;
    txtMobile.ReadOnly = false;
}
```

After the update, all the boxes will be cleared.

```
private void BtnUpdate_Click(object sender, EventArgs e)
{
    if (txtName.Text != "" && txtAge.Text != "" && txtMobile.Text != "")
    {
        pibtconnect.Open();
        cmd = new SqlCommand("update empz_table set emp_name=@emp_name,age=@age,mobile=@mobile where emp_id=@emp_id", pibtconnect);

        cmd.Parameters.AddWithValue("@emp_id", txtEmpID.Text);
        cmd.Parameters.AddWithValue("@emp_name", txtName.Text);
        cmd.Parameters.AddWithValue("@age", txtAge.Text);
        cmd.Parameters.AddWithValue("@mobile", txtMobile.Text);
        cmd.ExecuteNonQuery();

        MessageBox.Show("Record Updated Successfully");
        pibtconnect.Close();

        cleartext();
    }
    else
    {
        MessageBox.Show("Please Provide Details!");
    }
}
```

Apply Leave

Search

Employee ID Search

Employee Name

Leave Type

No. of Days

<- Back Apply Leave

❖ For more secure

Employee must enter Employee ID and Search

Employee Name is locked



Apply Leave

[Log Out](#)

Employee ID

Employee Name

Leave Type

No. of Days

	emp_id	emp_name	leave_type	leaves
▶	5038	Waruna Batuan...	Casual Leave	15



Apply Leave

[Log Out](#)

Employee ID

Employee Name

Leave Type

No. of Days

	emp_id	emp_name	leave_type	leaves
▶	5038	Waruna Batuan...	Casual Leave	15



Apply Leave

[Log Out](#)

Employee ID

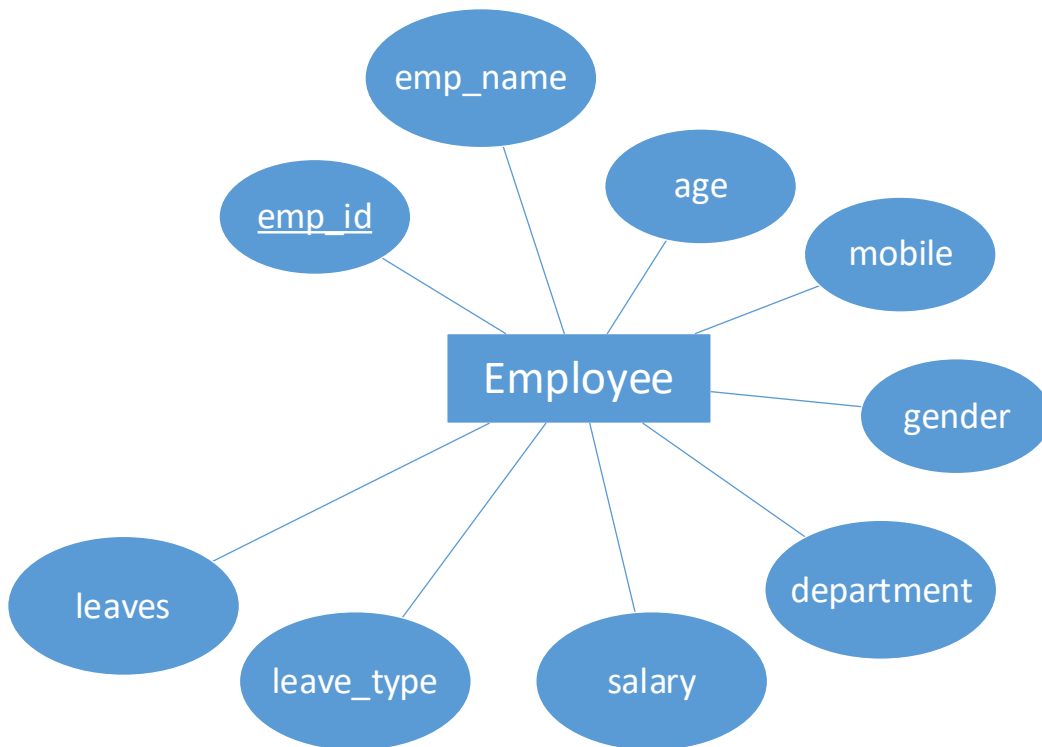
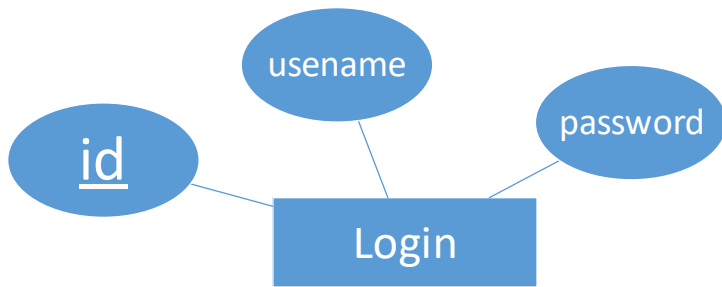
Employee Name

Leave Type

No. of Days

	emp_id	emp_name	leave_type	leaves
▶	5038	Waruna Batuan...	Sick Leave	2

ER Diagrams



No connections between tables

More:

- ❖ Start Position: Center Screen
- ❖ Form Border Style: None
- ❖ Used Keydown
- ❖ Icon:



Reference: Please watch Attached Video