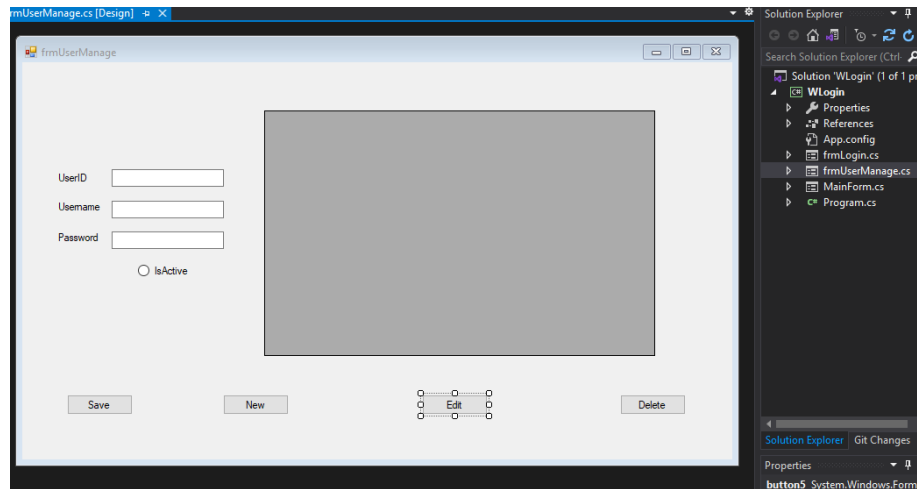
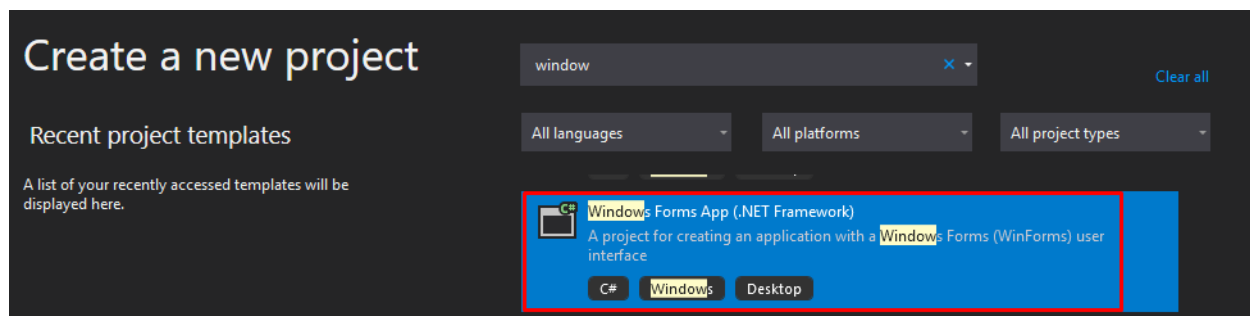


1. Create a C# Window Project (.Net Framework) project
2. Rename Form1.cs to MainForm.cs then add menuStrip control
3. Add a new Form: frmLogin.cs (2 textboxes: **txtUserID**, **txtPassword**, 2 buttons: **btnOK**, **btnExit**)
4. Create a database (**LabDB**), create a table: **tblUsers** (UserID, UserName, Password, IsActive)
5. Add a new Form : frmManageUser

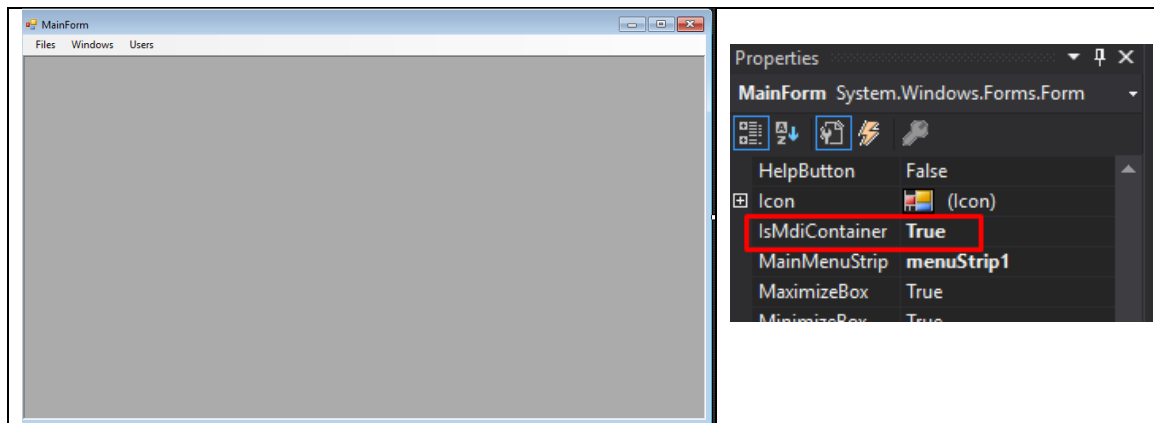


Guideline:

1. Create a Project



2. MainForm.cs

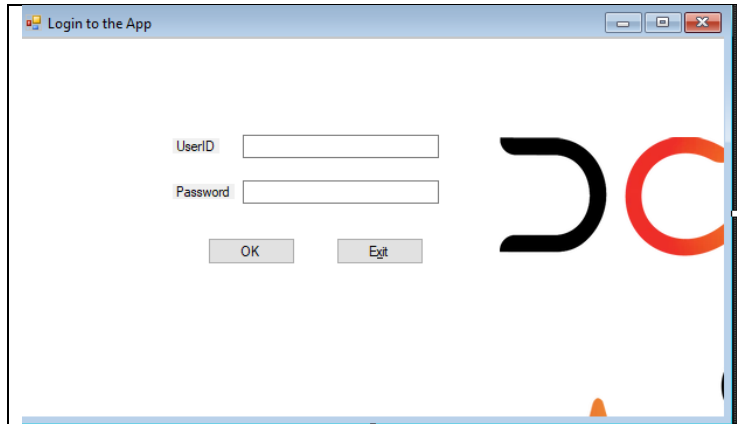


Code Events:

```
private void MainForm_Load(object sender, EventArgs e)
{
    frmLogin f = new frmLogin();
    f.ShowDialog();
}

1 reference
private void manageUserToolStripMenuItem_Click(object sender, EventArgs e)
{
    frmUserManage f = new frmUserManage();
    f.Show();
}
```

3. frmLogin.cs

	<p>Textbox: Name: txtUserID & txtPassword</p> <p>Double click on OK & Exit to open Code Events</p>
---	--

Code Events:

```
private void btnExit_Click(object sender, EventArgs e)
{
    Application.Exit();
}

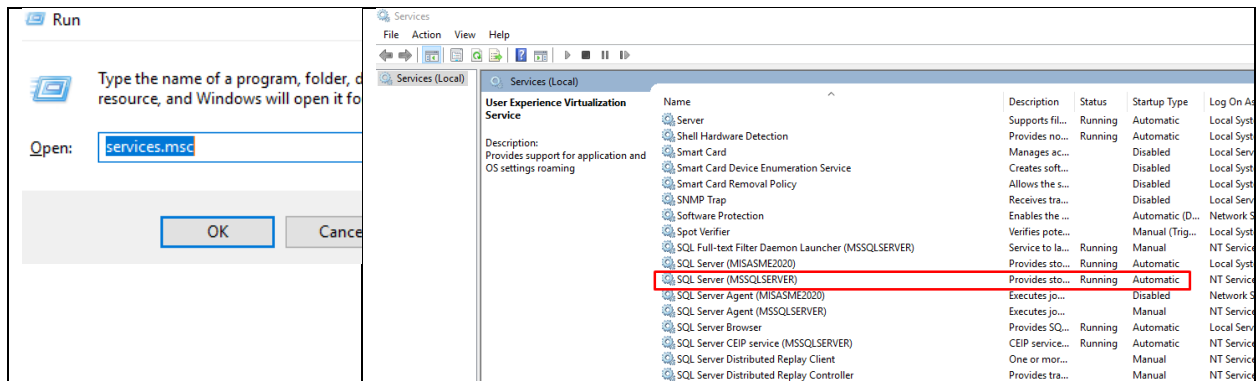
1 reference
private void btnOK_Click(object sender, EventArgs e)
{
    SqlConnection conn = new SqlConnection();
    conn.ConnectionString = @"Data Source=(local);Initial Catalog=Lab2;Integrated Security=True";
    conn.Open();
    String sSQL = "SELECT UserID, Password FROM tblUserName WHERE " +
        "UserID='" + txtUserID.Text + "' and Password='" + txtPassword.Text + "'";
    SqlCommand cmd = new SqlCommand(sSQL, conn);
    SqlDataAdapter da = new SqlDataAdapter(cmd);
    DataTable dt = new DataTable();
    da.Fill(dt);
    if (dt.Rows.Count > 0)
    {
        MessageBox.Show("Login Successful!");
        this.Close();
    }
    else
    {
        MessageBox.Show("Invalid Login. Please check userID or Password!");
    }
}
```

Notes: (See item 3 for Database Connection)

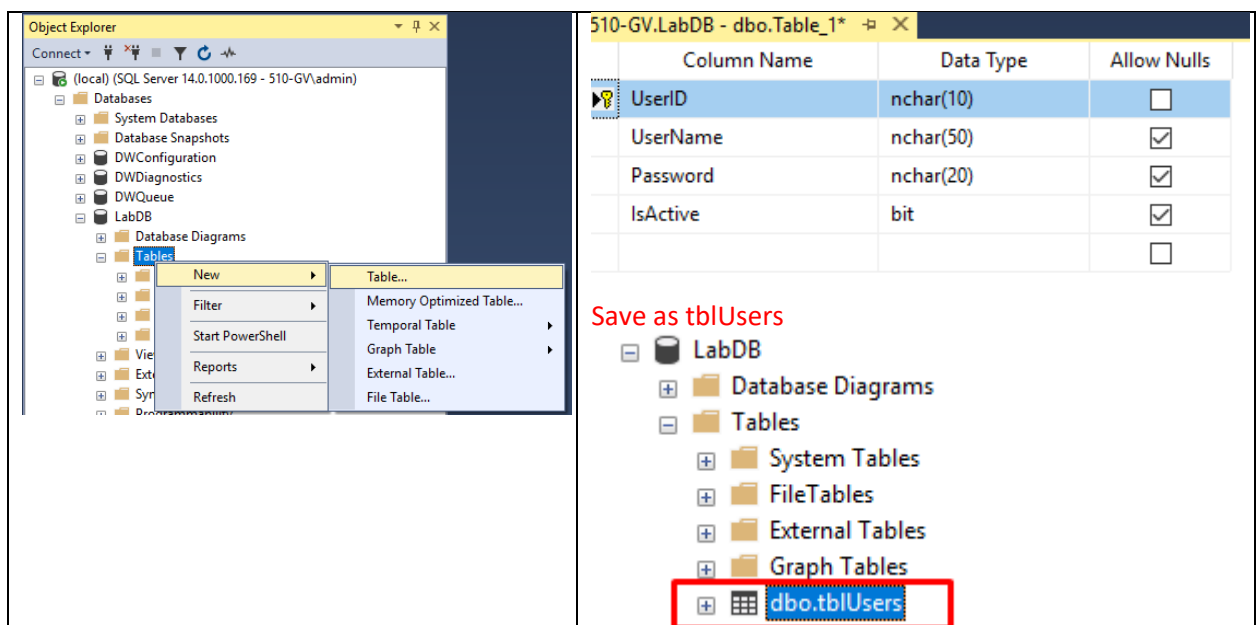
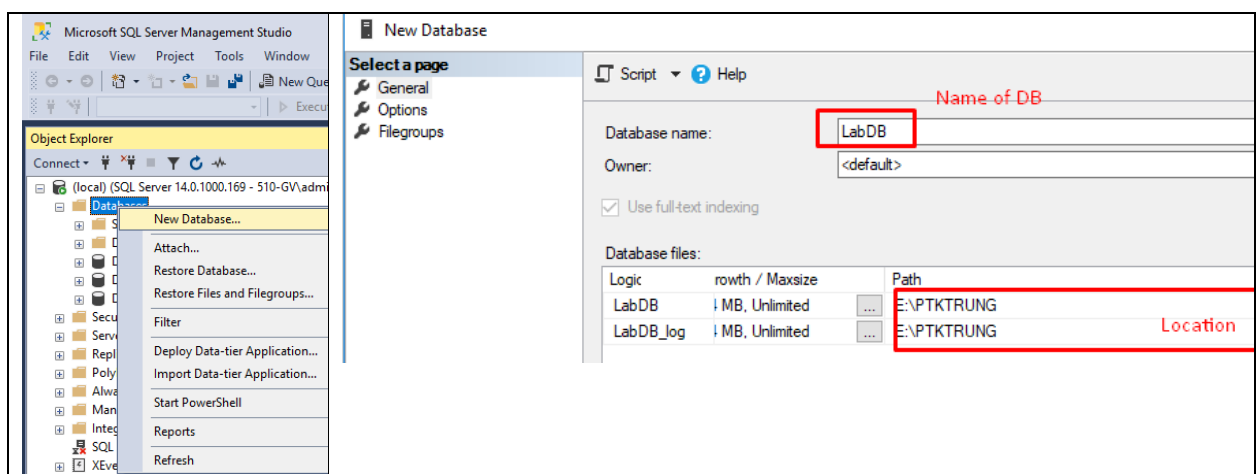
- Data Source = "Database Server"\Instance of MSSQL
- Initial Catalog = Database Name

4. MSSQL Database

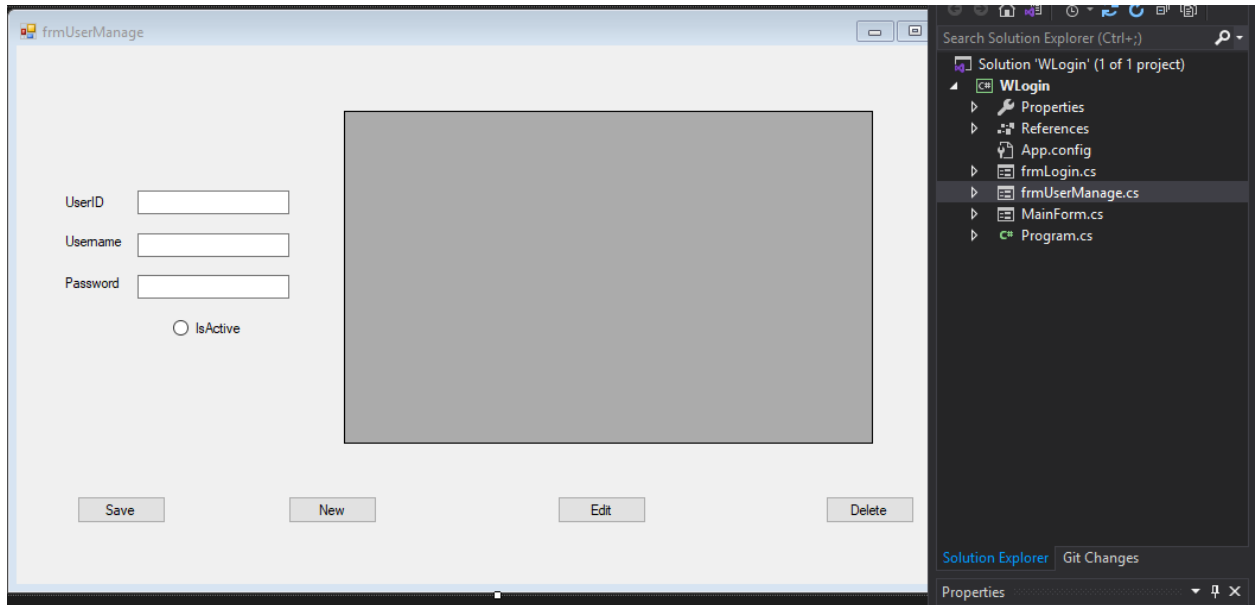
Press Windows + R:



Database Server should be: Name of computer or (local) or maybe (local\\SQLExpress) or probably IP address



5. Add a new Form : frmManageUser



Code Events:

```
private void frmUserManage_Load(object sender, EventArgs e)
{
    SqlConnection conn = new SqlConnection();
    conn.ConnectionString = @"Data Source=(local);Initial Catalog=Lab2;Integrated Security=True";
    conn.Open();
    String sSQL = "SELECT * FROM tblUserName";
    SqlCommand cmd = new SqlCommand(sSQL, conn);
    SqlDataAdapter da = new SqlDataAdapter(cmd);
    DataTable dt = new DataTable();
    da.Fill(dt);
    if (dt.Rows.Count > 0)
    {
        dataGridView1.DataSource = dt;
    }
    else
    {
        MessageBox.Show("No Data");
    }
}
```

```
private void frmUserManage_Load(object sender, EventArgs e)
{
    SqlConnection conn = new SqlConnection();
    conn.ConnectionString = @"Data Source=(local);Initial Catalog=Lab2;Integrated Security=True";
    conn.Open();
    String sSQL = "SELECT * FROM tblUserName";
    SqlCommand cmd = new SqlCommand(sSQL, conn);
    SqlDataAdapter da = new SqlDataAdapter(cmd);
    DataTable dt = new DataTable();
    da.Fill(dt);
    if (dt.Rows.Count > 0)
    {
        dataGridView1.DataSource = dt;
    }
    else
    {
        MessageBox.Show("No Data");
    }
}
```

Think how to do for other requirements on frmManageUser

```

private void dataGridView1_CellContentClick(object sender,
DataGridViewCellEventArgs e)
{
    int index = e.RowIndex;
    if (index < 0 || index >= dataGridView1.RowCount)
        return;
    try{
        {
            DataGridViewRow row = dataGridView1.Rows[index];
            String userID = Convert.ToString(row.Cells[0].Value);
            String username = Convert.ToString(row.Cells[1].Value);
            String password = Convert.ToString(row.Cells[2].Value);
            bool isActive = Convert.ToBoolean(row.Cells[3].Value);
            //DateTime createDate = Convert.ToDateTime(row.Cells[4].Value);
            //update UI
            txtUserID.Text = userID;
            txtUsername.Text = username;
            txtPassword.Text = password;
            rdbActive.Checked = isActive;
            //dtCreateDate.Value = createDate;
        }
    }
    catch(Exception ex)
    {
        throw new Exception("Error:" + ex.Message);
    }
}

private void btnAdd_Click(object sender, EventArgs e)
{
    SqlConnection conn = new SqlConnection();
    conn.ConnectionString = @"Data Source=(local); Initial Catalog=LabDB;Integrated
Security=True";
    conn.Open();
    String sSQL = "INSERT INTO tblUsers (UserID,UserName,Password,IsActive)
VALUES(@UID,@UName,@Pwd, @IsA)";
    SqlCommand cmd = new SqlCommand(sSQL, conn);
    cmd.Parameters.Add(new SqlParameter("@UID", txtUserID.Text));
    cmd.Parameters.Add(new SqlParameter("@UName", txtUsername.Text));
    cmd.Parameters.Add(new SqlParameter("@Pwd", txtPassword.Text));
    cmd.Parameters.Add(new SqlParameter("@IsA", rdbActive.Checked));
    try{
        {
            cmd.ExecuteNonQuery();
        }
    }
    catch (Exception ex){
        {
            throw new Exception("Error:" + ex.Message);
        }
    }
    MessageBox.Show("Save successfully!");
    dataGridView1.Refresh();
}
}

```