- 1- Bâtir le projet Labo-2 (WebForm vide)
- 2- Importer dans le projet (ClientFormUtilities.Js, FormStyle.css et SqlExpressUtilities.cs, Images)
- 3- Créer la base de données MainDB.mdf
- 4- Ajouter la table USERS dans le répertoire App_Data

```
CREATE TABLE [dbo].[USERS] (
   [ID] BIGINT IDENTITY (1, 1) NOT NULL,
   [USERNAME] NVARCHAR (50) NOT NULL,
   [PASSWORD] NVARCHAR (50) NOT NULL,
   [FULLNAME] NVARCHAR (50) NULL,
   PRIMARY KEY CLUSTERED ([ID] ASC)
);
```

5- Ajouter dans Global.asax/Application_Start:

```
string DB_Path = Server.MapPath(@"~\App_Data\MainDB.mdf");
Application["MainDB"] = @"Data Source=(LocalDB)\v11.0;AttachDbFilename='" + DB_Path + "'; Integrated Security=true";
```

6- Peupler la table USERS

ID	USERNAME	PASSWORD	FullName
3	ATremblay	Lapin_2015	Alain Tremblay
4	JLapointe	Piano_Bar	Jean Lapointe
5	ADMIN	PASSWORD	Administrateur

7- Créer la classe USERS qui dérive de la classe SqlExpressWrapper

```
public class USERS:SqlExpressUtilities.SqlExpressWrapper
   public long ID { get; set; }
    public String UserName { get; set; }
    public String Password { get; set; }
   public String FullName { get; set; }
   public USERS(String connexionString, System.Web.UI.Page Page)
        : base(connexionString, Page)
    {
        SQLTableName = "USERS";
    }
   public override void GetValues()
        ID = long.Parse(FieldsValues[0]);
        UserName = FieldsValues[1];
        Password = FieldsValues[2];
        FullName = FieldsValues[3];
    public override void Insert()
        InsertRecord(UserName, Password, FullName);
   public override void Update()
        UpdateRecord(ID, UserName, Password, FullName);
}
```

8- Créer la page ShowUsers.aspx et ajouter le panel PN_GridView:

ShowUsers.aspx

ShowUsers.aspx.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace Labo_2
{
    public partial class ShowUsers : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            USERS users = new USERS((string)Application["MainDB"], this);
            users.SelectAll();
            users.MakeGridView(PN_GridView, "" /*pas de page d'édition pour l'instant */);
        }
    }
}
```

9- Lancer la page ShowUsers.aspx:

↓†ID ↓†USERNAME ↓†PASSWORD ↓†FullName

<u>3</u>	ATremblay	Lapin_2015	Alain Tremblay
<u>4</u>	JLapointe	Piano_Bar	Jean Lapointe
5	ADMIN	DASSWORD	Administrateur

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Login.aspx.cs" Inherits="Labo_2.Login" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
   <title></title>
   <script src="//code.jquery.com/jquery-1.10.2.js"></script>
   <link rel="stylesheet" href="FormStyles.css"/>
</head>
<body>
   <h2>Login...</h2> <hr />
   <form id="form1" runat="server">
   <div style="margin:auto; width:300px; background-color:lightgray; padding:20px; border:1px solid black;">
       <asp:Label for="TB_UserName" runat="server" Text="Nom d'usager"></asp:Label>
             <asp:TextBox ID="TB UserName" runat="server" CssClass="TextBox"></asp:TextBox> 
           <asp:Label for="TB_Password" runat="server" Text="Mot de passe"></asp:Label>
             <asp:TextBox ID="TB_Password" runat="server" CssClass="TextBox" TextMode="Password"></asp:TextBox>
</div>
   </form>
</body>
</html>
```

Login...



12- Ajouter les « validator » suivants :

```
À droite de la cellule du nom d'usager (TB_UserName)
      <asp:RequiredFieldValidator ID="RFV_TB_UserName" runat="server"</pre>
             Text="!vide"
             ErrorMessage="Le nom d'usager est vide!"
             ControlToValidate="TB_UserName"
             ValidationGroup="VG Login">
          </asp:RequiredFieldValidator>
      À droite de la cellule du mot de passe (TB_Password)
         <asp:RequiredFieldValidator ID="RFV_TB_Password" runat="server"</pre>
             Text="!vide"
             ErrorMessage="Le mot de passe est vide!"
             ControlToValidate="TB Password"
             ValidationGroup="VG_Login">
          </asp:RequiredFieldValidator>
En tant que dernière rangée du tableau du formulaire
  <asp:ValidationSummary ID="VGS_Logi" runat="server"</pre>
             ValidationGroup="VG_Login"
             HeaderText="Résumé des erreurs: <hr/&gt;"
```

Login...

Nom d'usager		!vide
Mot de passe		!vide
	Soumettre	
Résumé des erreurs:		
	nsager est vide! passe est vide!	

13- Ajouter les méthodes suivantes dans la classe USERS :

```
public bool Exist(String userName)
    bool exist = false;
    QuerySQL("SELECT * FROM " + SQLTableName + " WHERE USERNAME='" + userName + "'");
    if (reader.HasRows)
    {
        Next();
        GetValues();
        exist = true;
    }
    return exist;
}
public bool Valid(String userName, String Password)
    bool valid = false;
    if (Exist(userName))
        valid = (this.Password == Password);
    return valid;
}
```

14- Ajouter le code suivant dans Login.aspx.cs :

```
protected void Page_Load(object sender, EventArgs e)
{
   if (!Page.IsPostBack)
   {
      Session["CurrentUser"] = new USERS((String)Application["MainDB"], this);
      Session["UserValid"] = false;
   }
}
```

15- Insérer le « custom validator » suivant dans Login.asp comme dernier élément du formulaire

Login.aspx

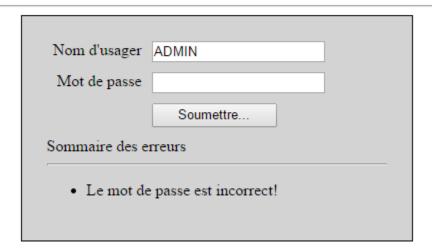
}

```
<asp:CustomValidator ID="CV_TB_UserName" runat="server"</pre>
    ErrorMessage="Ce nom d'usager n'existe pas!"
    Display="None"
    ValidationGroup="VG_Login"
    OnServerValidate="CV_TB_UserName_ServerValidate">
</asp:CustomValidator>
<asp:CustomValidator</pre>
    ID="CV_Password" runat="server"
    ErrorMessage="Le mot de passe est incorrect!"
    ControlToValidate="TB_Password"
    ValidationGroup="VG_Login"
    Display="None" OnServerValidate="CV_Password_ServerValidate">
</asp:CustomValidator>
Login.aspx.cs
protected void CV_TB_UserName_ServerValidate(object source, ServerValidateEventArgs args)
    USERS users = (USERS)Session["CurrentUser"];
    args.IsValid = users.Exist(TB_UserName.Text);
}
protected void CV_Password_ServerValidate(object source, ServerValidateEventArgs args)
 USERS users = (USERS)Session["CurrentUser"];
  args.IsValid = users.Valid(TB_UserName.Text, TB_Password.Text);
```

Login...

Nom d'usager		Vide!
Mot de passe		Vide!
	Soumettre	
Sommaire des e	rreurs	
	e l'usager est vide! passe est vide!	

Login...



Accueil.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Accueil.aspx.cs" Inherits="Labo_22.Accueil" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <h2>Bienvenue</h2>
        <asp:Label ID="LBL_FullName" runat="server" Text=""></asp:Label>
        <hr />
        <div>
        </div>
    </form>
</body>
</html>
```

Accueil.aspx.cs

```
protected void Page_Load(object sender, EventArgs e)
{
    Session["message"] = "vous devez vous authentifier!!!";
    if (Session["UserValid"] == null)
        Response.Redirect("Login.aspx");
    Session["message"] = "";
    if (!(bool)Session["UserValid"])
        Response.Redirect("Login.aspx");
    else
        LBL_FullName.Text = ((USERS)Session["CurrentUser"]).FullName;
}
```

18- Ajouter dans Login.aspx.cs un delegate sur le clic du bouton BTN_Click:

19- Ajouter dans Login.aspx un le label LBL_Mesage: