**Grandes étapes du projet Labo-2**

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)

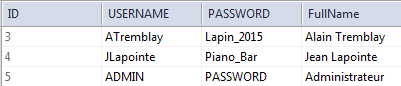
);

1. 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";

1. Peupler la table USERS



1. 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);

}

}

1. Créer la page ShowUsers.aspx  et ajouter le panel PN\_GridView:

ShowUsers.aspx

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="ShowUsers.aspx.cs" Inherits="Labo\_2.ShowUsers" %>

<!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">

<div>

**<asp:Panel id="PN\_GridView" runat="server"></asp:Panel>**

</div>

</form>

</body>

</html>

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();

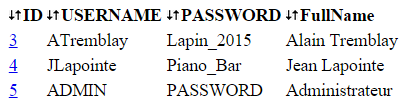
users.MakeGridView(PN\_GridView, "" /\*pas de page d’édition pour l’instant \*/);

}

}

}

1. Lancer la page ShowUsers.aspx :



1. Créer la page Login.aspx

<%@ 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;">

<table>

<tr>

<td> <asp:Label for="TB\_UserName" runat="server" Text="Nom d'usager"></asp:Label> </td>

<td> <asp:TextBox ID="TB\_UserName" runat="server" CssClass="TextBox"></asp:TextBox> </td>

</tr>

<tr>

<td> <asp:Label for="TB\_Password" runat="server" Text="Mot de passe"></asp:Label> </td>

<td> <asp:TextBox ID="TB\_Password" runat="server" CssClass="TextBox" TextMode="Password"></asp:TextBox> </td>

</tr>

<tr>

<td></td>

<td> <asp:Button ID="BTN\_Login" runat="server" Text="Soumettre..." class="submitBTN"/> </td>

</tr>

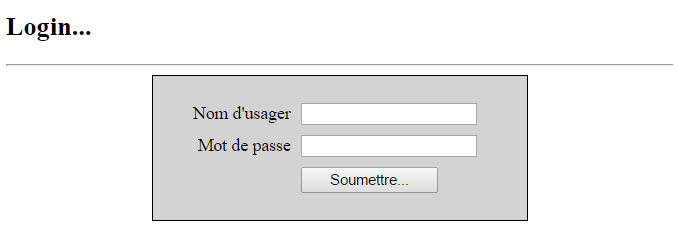
</table>

</div>

</form>

</body>

</html>



1. Ajouter dans le fichier Web.config  **<add key="ValidationSettings:UnobtrusiveValidationMode" value="None" />** :

<?xml version="1.0" encoding="utf-8"?>

<!--

Pour plus d'informations sur la configuration de votre application ASP.NET, consultez

http://go.microsoft.com/fwlink/?LinkId=169433

-->

<configuration>

**<appSettings>**

**<add key="ValidationSettings:UnobtrusiveValidationMode" value="None" />**

**</appSettings>**

<system.web>

<compilation debug="true" targetFramework="4.5" />

<httpRuntime targetFramework="4.5" />

</system.web>

</configuration>

1. Ajouter les « *validator* » suivants :

À droite de la cellule du nom d’usager (TB\_UserName)

<td>

<asp:RequiredFieldValidator ID="RFV\_TB\_UserName" runat="server"

Text="!vide"

ErrorMessage="Le nom d'usager est vide!"

ControlToValidate="TB\_UserName"

ValidationGroup="VG\_Login">

</asp:RequiredFieldValidator>

</td>

À droite de la cellule du mot de passe (TB\_Password)

<asp:RequiredFieldValidator ID="RFV\_TB\_Password" runat="server"

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

<tr>

<td colspan="3" style="text-align:left;">

<asp:ValidationSummary ID="VGS\_Logi" runat="server"

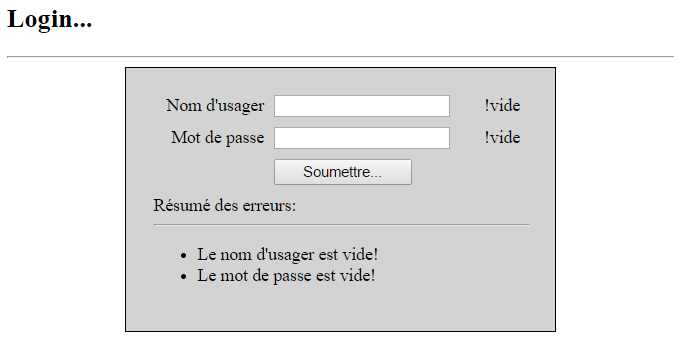
ValidationGroup="VG\_Login"

HeaderText="Résumé des erreurs: &lt;hr/&gt;"

/>

</td>

</tr>



1. 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;

}

1. 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;

}

}

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

Login.aspx

<asp:CustomValidator ID="CV\_TB\_UserName" runat="server"

ErrorMessage="Ce nom d'usager n'existe pas!"

Display="None"

ValidationGroup="VG\_Login"

OnServerValidate="CV\_TB\_UserName\_ServerValidate">

</asp:CustomValidator>

<asp:CustomValidator

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)

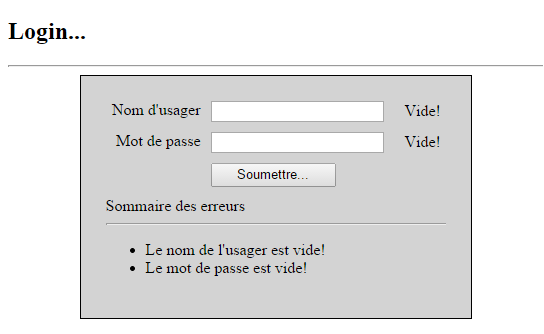
{

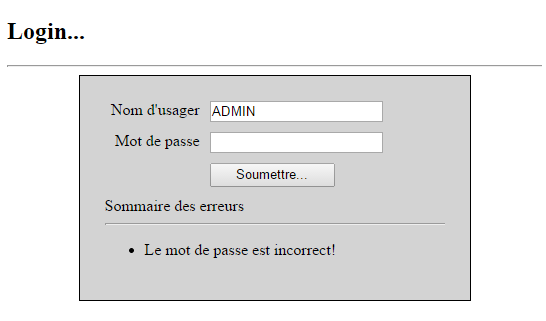
USERS users = (USERS)Session["CurrentUser"];

args.IsValid = users.Valid(TB\_UserName.Text, TB\_Password.Text);

}

1. Lancer Login.aspx et tester :





1. Ajouter une nouvelle page aspx :

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;

}

1. Ajouter dans Login.aspx.cs un delegate sur le clic du bouton BTN\_Click:

<asp:Button ID="BTN\_Login" runat="server"

Text="Soumettre..."

class="submitBTN"

ValidationGroup="VG\_Login" OnClick="BTN\_Login\_Click"

/>

protected void BTN\_Login\_Click(object sender, EventArgs e)

{

if (Page.IsValid)

{

Session["UserValid"] = true;

Response.Redirect("Accueil.aspx");

}

}

1. Ajouter dans Login.aspx un le label LBL\_Mesage:

<body>

<h2>Login...</h2>

<asp:Label ID="LBL\_Message" runat="server" Text=""></asp:Label>

<hr />

<form id="form1" runat="server">

<div style="margin: auto; width: 350px; background-color: lightgray; padding: 20px; border: 1px solid black;">

<table>