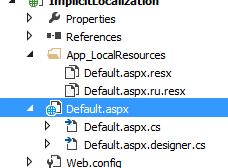
Implicit Localization



!--Неявная локализация с помощью локальных файлов-->

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="ImplicitLocalization.Default" Culture="auto" UICulture="en-US" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title></title>

</head>

<body>

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

<div>

<table cellpadding="3" cellspacing="4">

<tr>

<td>

<asp:Label ID="LabelLogin" runat="server" meta:resourcekey="LabelLogin"></asp:Label>

</td>

<td>

<asp:TextBox ID="TextBoxLogin" runat="server"></asp:TextBox>

</td>

</tr>

<tr>

<td>

<asp:Label ID="LabelPassword" runat="server" meta:resourcekey="LabelPassword"></asp:Label>

</td>

<td>

<asp:TextBox ID="TextBoxPassword" runat="server"></asp:TextBox>

</td>

</tr>

<tr>

<td colspan="2">

<asp:Button ID="ButtonLogin" runat="server" meta:resourcekey="ButtonLogin" />

</td>

</tr>

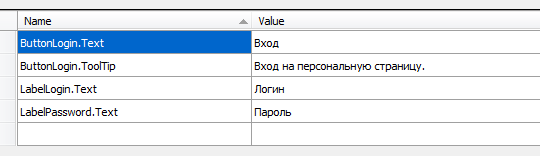
</table>

</div>

</form>

</body>

resx



\*\*\*

Implicit

<!--Неявная локализация с помощью локальных файлов-->

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="ImplicitLocalization.Default" Culture="auto" UICulture="auto" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title></title>

</head>

<body>

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

<div>

<asp:DropDownList runat="server" AutoPostBack="true" ID="LanguageList" >

<asp:ListItem Text="Russian" Value="ru-RU" />

<asp:ListItem Text="English" Value="en-US" />

</asp:DropDownList>

</div>

<div>

<table cellpadding="3" cellspacing="4">

<tr>

<td>

<asp:Label ID="LabelLogin" runat="server" meta:resourcekey="LabelLogin"></asp:Label>

</td>

<td>

<asp:TextBox ID="TextBoxLogin" runat="server"></asp:TextBox>

</td>

</tr>

<tr>

<td>

<asp:Label ID="LabelPassword" runat="server" meta:resourcekey="LabelPassword"></asp:Label>

</td>

<td>

<asp:TextBox ID="TextBoxPassword" runat="server"></asp:TextBox>

</td>

</tr>

<tr>

<td colspan="2">

<asp:Button ID="ButtonLogin" runat="server" meta:resourcekey="ButtonLogin" />

</td>

</tr>

</table>

</div>

</form>

// Неявная локализация с помощью локальных файлов

// Метод InitializeCulture в базовом классе не содержит логики,

// вызывается на ранних этапах жизненного цикла страницы (до события PreInit), когда еще не созданы элементы управления.

protected override void InitializeCulture()

{

if (Request.Form["LanguageList"] != null)

{

string language = Request.Form["LanguageList"];

UICulture = language;

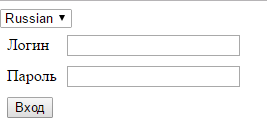
Culture = language;

//Thread.CurrentThread.CurrentCulture = new CultureInfo(language);

//Thread.CurrentThread.CurrentUICulture = CultureInfo.CreateSpecificCulture(language);

}

}



\*\*\*

Implicit

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="ImplicitLocalization3.Default" UICulture="en-US" Culture="auto" meta:resourcekey="PageResource1" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title></title>

</head>

<body>

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

<div>

<asp:GridView ID="GridViewLocalization" runat="server"

meta:resourcekey="GridViewLocalizationResource1">

<AlternatingRowStyle BackColor="LightBlue" />

<RowStyle BackColor="LightGreen" />

</asp:GridView>

</div>

</form>

</body>

</html>

protected void Page\_Load(object sender, EventArgs e)

{

DataTable table = new DataTable();

table.Columns.Add(new DataColumn("FirstName"));

table.Columns.Add(new DataColumn("LastName"));

table.LoadDataRow(new object[] { "Ivan", "Ivanov" }, true);

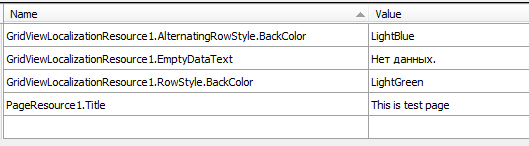
table.LoadDataRow(new object[] { "Jhon", "Smith" }, true);

table.LoadDataRow(new object[] { "Petr", "Petrov" }, true);

GridViewLocalization.DataSource = table;

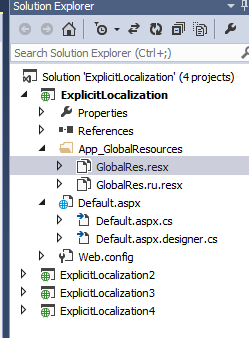
GridViewLocalization.DataBind();

}



\*\*\*

Explicit Localization



<!—Явная локализация с помощью глобальных файлов🡪

<%@ Page Language=”C#” AutoEventWireup=”true” CodeBehind=”Default.aspx.cs” Inherits=”ExplicitLocalization.Default” UICulture=”auto”%>

<!DOCTYPE html PUBLIC “-//W3C//DTD XHTML 1.0 Transitional//EN” “http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd”>

<html xmlns=”http://www.w3.org/1999/xhtml”>

<head runat=”server”>

<title></title>

</head>

<body>

<form id=”form1” runat=”server”>

<div>

<table cellpadding=”3” cellspacing=”4”>

<tr>

<td>

<asp:Label ID=”LabelLogin” runat=”server” Text=”<%$ Resources:GlobalRes, LoginText %>”></asp:Label>

</td>

<td>

<asp:TextBox ID=”TextBoxLogin” runat=”server”></asp:TextBox>

</td>

</tr>

<tr>

<td>

<asp:Label ID=”LabelPassword” runat=”server” Text=”<%$ Resources:GlobalRes, PassText %>”></asp:Label>

</td>

<td>

<asp:TextBox ID=”TextBoxPassword” runat=”server”></asp:TextBox>

</td>

</tr>

<tr>

<td colspan=”2”>

<asp:Button ID=”ButtonLogin” runat=”server” Text=”<%$ Resources:GlobalRes, ButtonEnter %>” />

</td>

</tr>

</table>

</div>

</form>

</body>

</html>

\*\*\*

Изменение языка из C#- кода

<!--Явная локализация с помощью локальных файлов-->

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="ExplicitLocalization.Default"

UICulture="en-US" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title></title>

</head>

<body>

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

<div>

<table cellpadding="3" cellspacing="4">

<tr>

<td>

<asp:Label ID="LabelLogin" runat="server"></asp:Label>

</td>

<td>

<asp:TextBox ID="TextBoxLogin" runat="server"></asp:TextBox>

</td>

</tr>

<tr>

<td>

<asp:Label ID="LabelPassword" runat="server"></asp:Label>

</td>

<td>

<asp:TextBox ID="TextBoxPassword" runat="server"></asp:TextBox>

</td>

</tr>

<tr>

<td colspan="2">

<asp:Button ID="ButtonLogin" runat="server" />

</td>

</tr>

</table>

</div>

</form>

</body>

</html>

protected void Page\_Load(object sender, EventArgs e)

{

UICulture = "ru-RU";

//UICulture = "en-US";

//Thread.CurrentThread.CurrentUICulture = new CultureInfo("ru-RU");

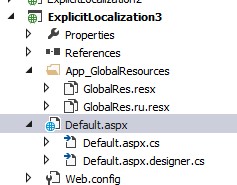
ButtonLogin.Text = Resources.GlobalRes.ButtonEnter;

LabelLogin.Text = Resources.GlobalRes.LoginText;

LabelPassword.Text = Resources.GlobalRes.PassText;

}

}



\*\*\*

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="ExplicitLocalization4.Default" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title></title>

</head>

<body>

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

<div>

<asp:Label ID="Label1" runat="server" />

<br />

<asp:Label ID="Label2" runat="server" />

</div>

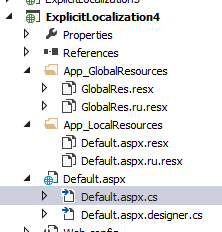
</form>

</body>

</html>

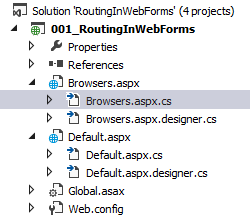
Label1.Text = GetGlobalResourceObject("GlobalRes", "ResValue").ToString();

Label2.Text = GetLocalResourceObject("LocalresValue").ToString();



\*\*\*

Маршрутизация



Browser.aspx

<body>

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

<div>

<asp:Label ID="Label1" runat="server" />

</div>

</form>

</body>

public partial class Browsers : System.Web.UI.Page

{

Dictionary<string, string> browsers = new Dictionary<string, string>();

protected void Page\_Load(object sender, EventArgs e)

{

browsers.Add("mozilla", "Mozilla Firefox is a free and open source web browser descended from the Mozilla Application Suite and managed by Mozilla Corporation. As of November 2011, Firefox is the second or third most widely used browser, according to different estimates, with approximately 25% of worldwide usage share of web browsers.");

browsers.Add("chrome", "Google Chrome is a web browser developed by Google that uses the WebKit layout engine. It was first released as a beta version for Microsoft Windows on September 2, 2008, and the public stable release was on December 11, 2008. The name is derived from the graphical user interface frame, or 'chrome', of web browsers.");

browsers.Add("ie", "Windows Internet Explorer (formerly Microsoft Internet Explorer, commonly abbreviated IE or MSIE) is a series of graphical web browsers developed by Microsoft and included as part of the Microsoft Windows line of operating systems, starting in 1995.");

browsers.Add("opera", "Opera is a web browser and Internet suite developed by Opera Software with over 200 million users worldwide.[4] The browser handles common Internet-related tasks such as displaying web sites, sending and receiving e-mail messages, managing contacts, chatting on IRC, downloading files via BitTorrent, and reading web feeds. Opera is offered free of charge for personal computers and mobile phones.");

browsers.Add("safari", "Safari is a web browser developed by Apple Inc. and included with the Mac OS X and iOS operating systems. First released as a public beta on January 7, 2003[3] on the company's Mac OS X operating system, it became Apple's default browser beginning with Mac OS X v10.3 'Panther'.");

try

{

// получение данныx из сегмента {name} текущего запроса

string name = Page.RouteData.Values["name"] as string;

Label1.Text = browsers[name];

}

catch

{

Label1.Text = "ERROR!";

}

}

Default.aspx

</head>

<body>

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

<div>

<a href="/browsers/ie">IE</a><br />

<a href="/browsers/chrome">Chrome</a><br />

<a href="/browsers/mozilla">Mozilla</a><br />

<a href="/browsers/opera">Opera</a><br />

<a href="/browsers/safari">Safari</a><br />

</div>

</form>

</body>

Global.asax

public class Global : System.Web.HttpApplication

{

// Обработчик события старта приложения. Срабатывает один раз при первом запросе к веб приложению.

protected void Application\_Start(object sender, EventArgs e)

{

// RouteTable.Routes - коллекция всех маршрутов текущего приложения.

RegisterRoutes(RouteTable.Routes);

}

// Метод для регистрации маршрутов.

void RegisterRoutes(RouteCollection routes)

{

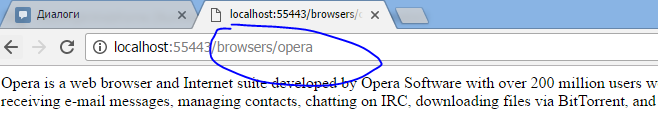
// Маршрут для запросов brosers/ie, browsers/сhrome и т.д.

// Переходя по адресу browser/имя будет создаваться экземпляр страницы Browsers.aspx для которой будет доступен параметр с именем name

routes.MapPageRoute("BrowsersCollection", "browsers/{name}", "~/Browsers.aspx");

}

}



\*\*\*

Calc.aspx

</head>

<body>

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

<div>

<asp:Label Id="Result" runat="server" />

</div>

</form>

</body>

public partial class Calc : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

try

{

string operation = Page.RouteData.Values["operation"] as string;

int x = Convert.ToInt32(Page.RouteData.Values["x"]);

int y = Convert.ToInt32(Page.RouteData.Values["y"]);

switch (operation)

{

case "sum":

Result.Text = (x + y).ToString();

break;

case "sub":

Result.Text = (x - y).ToString();

break;

case "mul":

Result.Text = (x \* y).ToString();

break;

case "div":

Result.Text = (x / y).ToString();

break;

}

}

catch (Exception)

{

Result.Text = "ERROR";

Result.ForeColor = Color.Red;

}

}

}

Default.aspx

<body>

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

<div>

<a href="/calc/sum/10/20">10 + 20</a><br />

<a href="/calc/sub/10/3">10 - 3</a><br />

<a href="/calc/mul/10/2">10 \* 2</a><br />

<a href="/calc/div/10/5">10 / 5</a><br />

</div>

</form>

</body>

Global.asax

public class Global : System.Web.HttpApplication

{

protected void Application\_Start(object sender, EventArgs e)

{

RegisterRoutes(RouteTable.Routes);

}

void RegisterRoutes(RouteCollection routes)

{

// Маршрут будет срабатывать при поступлении запроса подобного следующему calc/sum/10/20

routes.MapPageRoute("Calculator", "calc/{operation}/{x}/{y}", "~/Calc.aspx");

}

}

\*\*\*

AutoGeneretedLinks

public partial class Calc : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

try

{

string operation = Page.RouteData.Values["operation"] as string;

int x = Convert.ToInt32(Page.RouteData.Values["x"]);

int y = Convert.ToInt32(Page.RouteData.Values["y"]);

switch (operation)

{

case "sum":

Result.Text = (x + y).ToString();

break;

case "sub":

Result.Text = (x - y).ToString();

break;

case "mul":

Result.Text = (x \* y).ToString();

break;

case "div":

Result.Text = (x / y).ToString();

break;

}

}

catch (Exception)

{

Result.Text = "ERROR";

Result.ForeColor = Color.Red;

}

}

Default.aspx

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

<div>

<asp:HyperLink

ID="SumLink"

runat="server"

Text="10 + 20"

NavigateUrl="<%$RouteUrl:operation=sum, x=10, y=20, routename=Calculator %>">

</asp:HyperLink>

<br />

<asp:HyperLink

ID="SubLink"

runat="server"

Text="10 - 2"

NavigateUrl="<%$RouteUrl:operation=sub, x=10, y=2, routename=Calculator %>">

</asp:HyperLink>

<br />

</div>

</form>

\*\*\*

Global.asax

public class Global : System.Web.HttpApplication

{

protected void Application\_Start(object sender, EventArgs e)

{

RegisterRoutes(RouteTable.Routes);

}

void RegisterRoutes(RouteCollection routes)

{

// Маршрут будет срабатывать при поступлении запроса подобного следующему calc/sum/10/20

//routes.MapPageRoute("Calculator", "calc/{operation}/{x}/{y}", "~/Calc.aspx");

// Так как на странице Default.aspx используется <%$RouteUrl: %> адреса ссылок генерируются автоматически на основе таблицы маршрутизации.

// Поэтому при смене настроек маршрута, например, при изменении последовательности сегментов в маршруте,

// переписывать настройки ссылок в приложении не продеться.

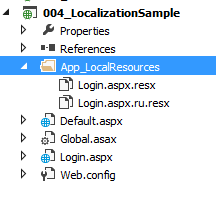
routes.MapPageRoute("Calculator", "calc/{x}/{y}/{operation}", "~/Calc.aspx"); // СНЯТЬ КОММЕНТАРИЙ И ЗАКОММЕНТИРОВАТЬ ПРЕДЫДУЩИЙ МАРШРУТ

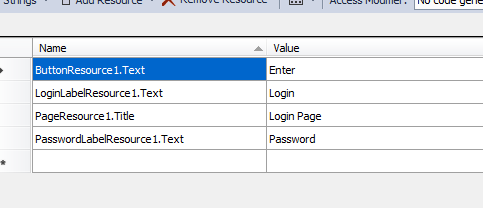
}

}

\*\*\*

Localization Sample





Default.aspx

<body>

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

<div>

<a href="/ru/Login.aspx">Login ru</a>

<a href="/en/Login.aspx">Login en</a>

</div>

</form>

Login.aspx

<head runat="server">

<title></title>

</head>

<body>

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

<div>

<asp:Label ID="LoginLabel" runat="server" meta:resourcekey="LoginLabelResource1" />

<asp:TextBox ID="Username" runat="server" />

<br />

<asp:Label ID="PasswordLabel" runat="server" meta:resourcekey="PasswordLabelResource1" />

<asp:TextBox ID="Password" runat="server" TextMode="Password" />

<br />

<asp:Button runat="server" meta:resourcekey="ButtonResource1" />

</div>

</form>

</body>

public partial class Login : System.Web.UI.Page

{

protected override void InitializeCulture()

{

string lang = Page.RouteData.Values["lang"] as string ?? "auto";

UICulture = lang;

Culture = lang;

base.InitializeCulture();

}