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How to Create Multiple Language Website in Asp.net C#

👤 Satinder Singh / 📅 September 05, 2021 / 💬 16 Comments

Multilingual Website in Asp.net C# : In this tutorial, we are going to create multi-language website in Asp.net C#. A website which can support Multiple Language and change according to the culture of a specific geographical location is not a new topic. Web sites to support multiple languages can be a challenging and time-consuming process.

You find many articles related on internet and well explained, But I still see that many of them are complicated for "Beginners". I tried to make this article approach a more dynamic way to manage languages regarding Globalization/ Localization/ Culture concepts.

With standard HTML pages, you may have to create and maintain duplicate versions of each page for each supported language as well as having the language content embedded into the HTML, where content can't easily be edited.

For those of you who have to develop multi-lingual interfaces and applications, you'll be glad to know that **ASP.NET** makes things easier.

ASP.NET and the .NET framework ship with support for multilingual applications multiple language website, namely in the form of Resource Files, the **CultureInfo** class, and the **System.Globalization** and **System.Resources.ResourceManager** namespaces.

First we need to understand what is meant by `globalization`, `localization` and `culture` in this context.

Globalization: Globalization is a process of identifying all the parts of your application that need to be different for respective languages and separate them from the core application.

Localization: Localization is a process of creating and configuring your

the geographical location you belong to. It also includes the way you represent dates, times, and currencies.

It's important to have a good understanding of Cultures since our new code will make use of them - specifically the `System.Globalization.CultureInfo` class, and the culture name value which follows the RFC 1766 naming standard.

Basically, you create a new CultureInfo instance by specifying the culture name in the constructor:

```
//*
CultureInfo c = new CultureInfo("en-US");
//*
```

Follow the step to create multiple language websites (Multilingual):

Step 1:

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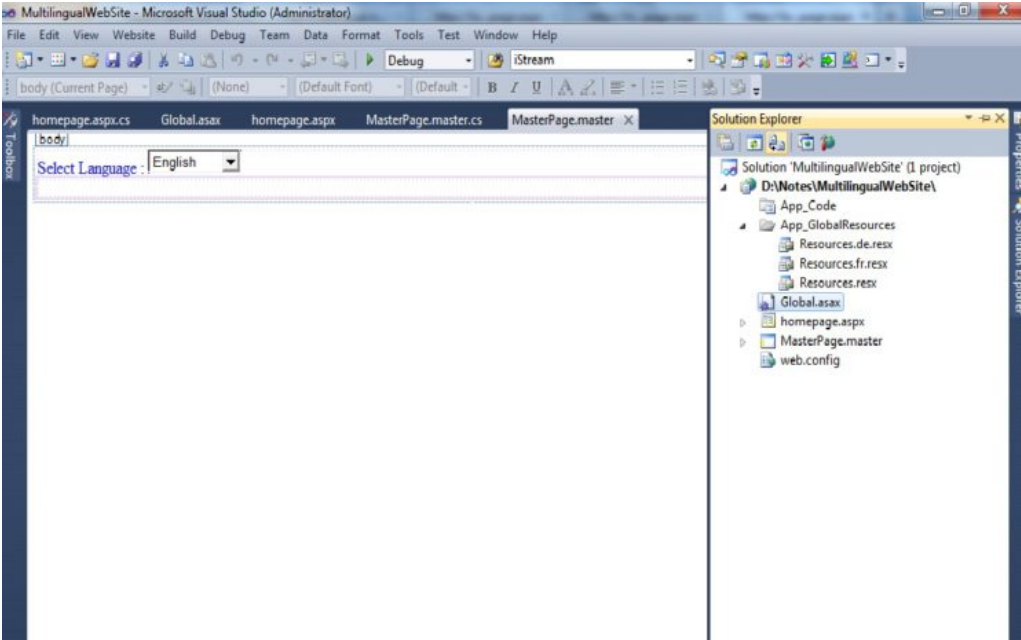
Create **new website**⇒ **Solution Explorer**⇒ Select sln right-click and Add Asp.Net Folder - `App_GlobalResources`;
Now under `App_globalization` add resources file (.resx file), I add three resx file default for English, fr for French, de for german having key pair values;

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The structure looks like as shown below image:

Step 2:

Add *Global.asax* *file*: **Code**: write this piece of code

```
//*
Public void Application_BeginRequest(Object sender, EventArgs e)
{
 // Code that runs on application startup
 HttpCookie cookie = HttpContext.Current.Request.Cookies["CultureInf
 if (cookie != null && cookie.Value != null)
 {
  System.Threading.Thread.CurrentThread.CurrentUICulture = new Syste
  System.Threading.Thread.CurrentThread.CurrentCulture = new System.
 }
 else
 {
  System.Threading.Thread.CurrentThread.CurrentUICulture = new Syste
  System.Threading.Thread.CurrentThread.CurrentCulture = new System.
 }
}
//*
```

Step 3: Add masterPage having a drop-down list control; **Code:**

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```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Globalization;
using System.Threading;
public partial class MasterPage : System.Web.UI.MasterPage
{
    protected void Page_Load(object sender, EventArgs e)
    {
        if (!Page.IsPostBack)
        {
            if (Session["ddindex"] != null)
            {
                ddlanguage.SelectedValue = Session["ddindex"].ToStri
                ddlanguage.SelectedIndex = Convert.ToInt32(Session["
            }
            else
            {
                ddlanguage.SelectedValue = Thread.CurrentThread.Curr
            }
        }
    }
    protected void ddlanguage_SelectedIndexChanged(object sender, Ev
    {
        Session["language"] = ddlanguage.SelectedValue;
        //Sets the cookie that is to be used by Global.asax
        HttpCookie cookie = new HttpCookie("CultureInfo");
        cookie.Value = ddlanguage.SelectedValue;
        Response.Cookies.Add(cookie);
        //Set the culture and reload for immediate effect.
        //Future effects are handled by Global.asax
        Thread.CurrentThread.CurrentCulture = new CultureInfo(ddlang
        Thread.CurrentThread.CurrentUICulture = new CultureInfo(ddla
        if (cookie.Value == "en") { Session["ddindex"] = 0; } else i
        Server.Transfer(Request.Path);
    }
}
```

Add childPage with controls and on *drop-down list selected index* it will display respective language content My sample *Child page design code* : set text as resources key; i.e `Text="<%$Resources:Resources,FieldName %>"`

```
    <table id="Table1">
        <tbody>
            <tr>
                <td class="style1">
                    <asp:Label ID="Label2" runat="server" Text="<%$R
                <td>
                    <asp:Label ID="Label3" runat="server" Text="<% $
            </tr>
            <tr>
                <td class="style1">
                    <asp:Label ID="Label4" runat="server" Text="<%$R
                <td>
                    <asp:RadioButtonList ID="RdBtnLtGender" RepeatDi
                        <asp:ListItem Text="<%$Resources:Resources,
                        <asp:ListItem Text="<%$Resources:Resources,
                    </asp:RadioButtonList></td>
            </tr>
            <tr>
                <td class="style1">
                    <asp:Label ID="Label7" runat="server" Text="<%$
                <td>
                    <asp:DropDownList Height="20px" ID="ddyear" runa
                        <asp:ListItem Value="1">Jan</asp:ListItem>
                        <asp:ListItem Value="2">Feb</asp:ListItem>
                        <asp:ListItem Value="3">Mar</asp:ListItem>
                        <asp:ListItem Value="4">Apr</asp:ListItem>
                        <asp:ListItem Value="5">May</asp:ListItem>
                        <asp:ListItem Value="6">Jun</asp:ListItem>
                        <asp:ListItem Value="7">Jul</asp:ListItem>
                        <asp:ListItem Value="8">Aug</asp:ListItem>
                        <asp:ListItem Value="9">Sep</asp:ListItem>
                        <asp:ListItem Value="10">Oct</asp:ListItem>
                        <asp:ListItem Value="11">Nov</asp:ListItem>
                        <asp:ListItem Value="12">Dec</asp:ListItem>
                    </asp:DropDownList>
                </td>
            </tr>
        </tbody>
    </table>
```

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ScreenShots :

OutPut 1) *For English*

Select Language : English

First Name   Last Name

Gender   ◉ Male ◉ Female

Month   Jan

2) *For French*

Select Language : French

Prénom   nom de famille

sexe   ◉ mâle ◉ femelle

mois   Jan

Resx file looks like:

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16 Comments

Anonymous 02/01/2013 07:27:55

It's so simple. Keep em' coming. :)

syed muhammad kawish 08/11/2015 08:13:42

you website is very good , and give good understanding.

Satinder singh 08/11/2015 16:37:10

@syed muhammad kawish: Thanks for your kind words

Manzar Hussain 09/27/2016 08:50:01

NICE POST. EASY TO UNDERSTAND. THANKS

Manzar Hussain 09/27/2016 08:52:35

Manzar Hussain 09/27/2016 08:53:38

POST IS GOOD. PLEASE GIVE SCREEN SHORT OF MASTER PAGE.

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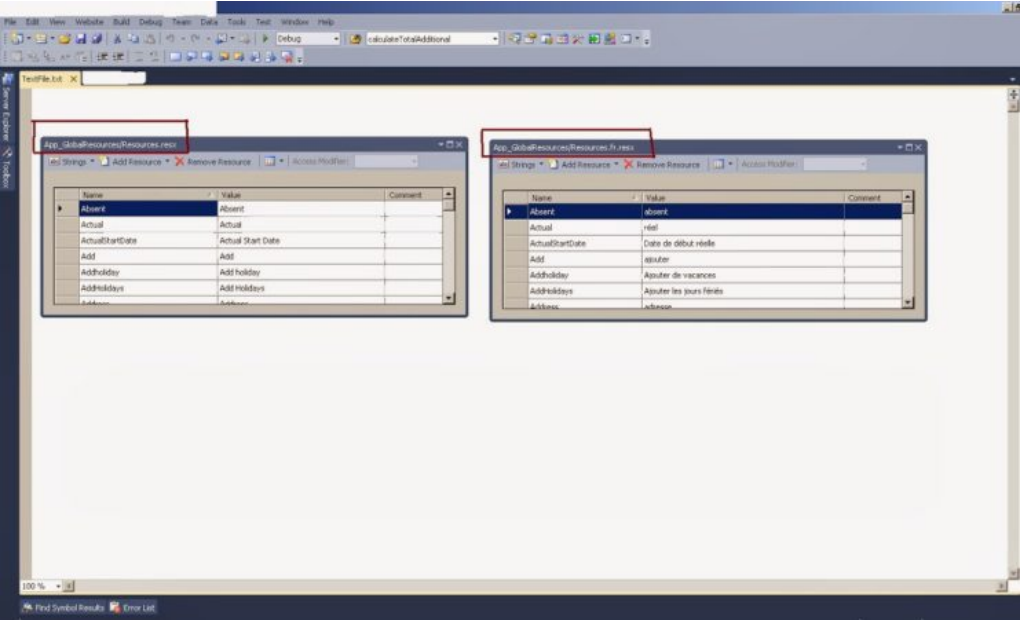♦ How to Execute SQL Script file in Asp.net C#?

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Satinder singh 10/13/2016 15:55:09

Thanks Rahul for updating this.

Satinder singh 06/12/2017 12:10:41

Hi Sandy, Make sure you have selected project as Asp.net (Webforms) and not Asp.net MVC, then right click on Web Project and you will see Add Asp.Net Folder – App_GlobalResources folders.

Sandy 06/13/2017 02:50:19

Oh no. My project is Asp.net MVC. I am new using .NET and C#, hence the newbie question! Is there a way for me to add in the Spanish option? Thanks, Sandy

Rajesh 06/14/2017 09:57:36

Yes, I will implement on my site Global-directory.org and make this website multilingual multiple languages in asp.net c

mina 06/17/2017 13:07:52

Thanks, thats very good and helpful But I have two problem 1)Rahul update which part if code in your article 2)If my dropdown list elements comes from data bound of database, which part of code must be change

Gokul 09/13/2017 07:50:33

What about Binded DropDown values from Database how to convert them too ??? any idea ??

Satinder singh 10/26/2017 06:57:27

Hi Gokul, For this, you have to maintain values in your database and based on language bind specific column or specific table.

akash 01/30/2018 07:56:27

how i suppose to change whole project , i have nearly 1000 pages in my web application, is there any tool to change that

vikram singh 07/30/2021 12:38:29

Hello it is very useful me thanks you Please send me this complete

Satinder singh 07/31/2021 12:54:54

Hi Vikram,
This article was written very long back, so am not having the source code. But you can try yourself step by step following this article. If you got any issue share it here will look into it.

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I'm Satinder Singh, an atypical polyglot programmer, who has a passion to create, solve, and deploy software applications. I have a great passion to learn new things and also write the missing instruction manuals of the web.

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