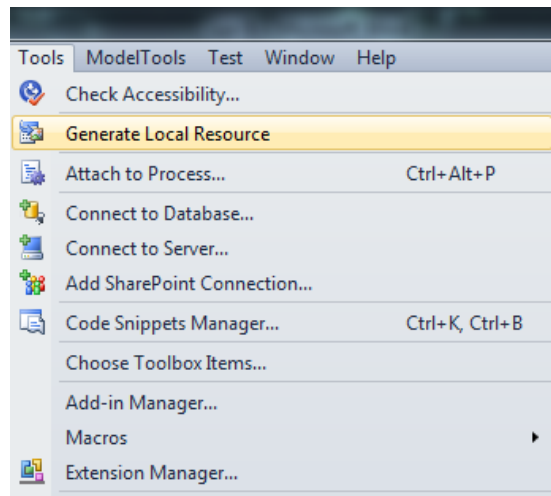


## Exercise 6

### Creating a multilanguage web site

One way to create a multilanguage website is through the establishment of resource files with translated attributes of the controls.

1. To create a resource page, select Tools> Generate Local Resources. Visual Studio generates resource files for the selected page putting them in the folder App\_LocalResources.

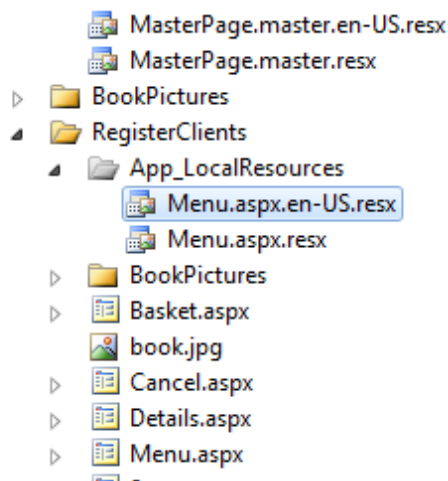


Visual Studio generates resources for a set of properties for each control. Resource names are always prefixed with the control's name and end with the property's name. Visual Studio automatically generates the default resources for controls only to the selected page.

When generating the resource file, Visual Studio automatically changes the source code of your pages by adding **meta:resourcekey**. Example:

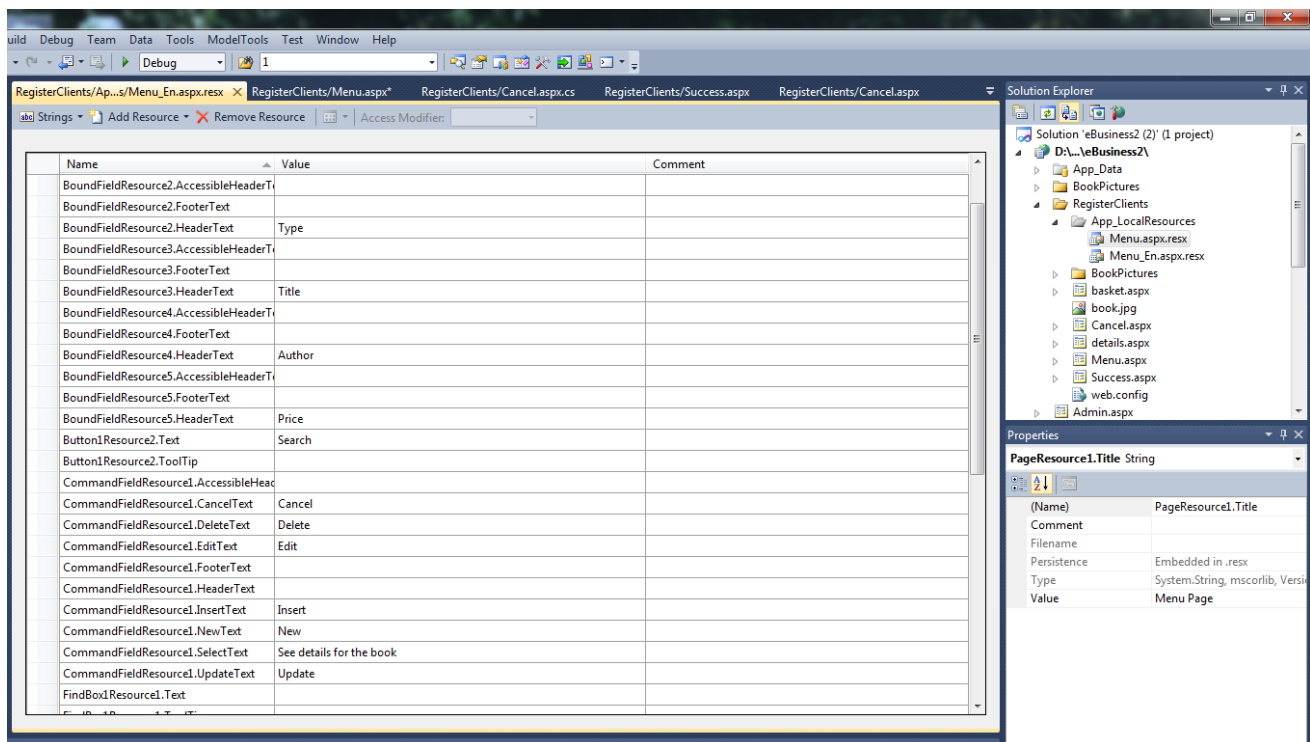
```
<asp:Label ID="Label1" runat="server" Font-Bold="True" Font-Italic="True" Font-Overline="False"
    Font-Underline="True" ForeColor="Maroon" Text="Меню и категории"
    Width="226px" meta:resourcekey="Label1Resource1">
```

2. Add a resource file for English language to any page manually by copying the generated resource file for Bulgarian and giving it a specific file name (example Menu.aspx.en-US.resx).



You can create more resource files for other languages in the same way. For example: Menu.aspx.de.resx, Menu.aspx.ar-EG.resx - adding respectively German and Arabic cultures to the application.

3. Write English values in *Value* column.



4. In *App\_Data* folder add a class *Inherited.cs* with the following content:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
public class Inherited : System.Web.UI.Page
{
    public Inherited()
    { }
    protected override void InitializeCulture()
    { }
}
```

```

{
    string culture = "";
    if (Session["lng"] != null)
        culture = Session["lng"].ToString();
    if (string.IsNullOrEmpty(culture)) culture = "Auto";
    //Use this
    this.UICulture = culture;
    this.Culture = culture;
    //OR This
    if (culture != "Auto")
    {
        System.Globalization.CultureInfo ci = new
System.Globalization.CultureInfo(culture);
        System.Threading.Thread.CurrentThread.CurrentCulture = ci;
        System.Threading.Thread.CurrentThread.CurrentUICulture = ci;
    }

    base.InitializeCulture();
}
}

```

5. Add Inheritance to *Inherited* class in each .cs page. Example:

```

public partial class Menu : Inherited
{
    ...
}

```

6. Add 2 ImageButtons in the master page that will switch between the languages. Add the following methods for handling the click events of the buttons:

```

protected void imgbtnEn_Click(object sender, ImageClickEventArgs e)
{
    Session["lng"] = "en-US";
    Response.Redirect(Request.Path);
}

protected void imgbtnBg_Click(object sender, ImageClickEventArgs e)
{
    Session["lng"] = "bg-BG";
    Response.Redirect(Request.Path);
}

```

7. Make resource files for all pages in the application.

To localize the menu in the Master page, you have to complete the following steps:

1. In the element **sitemap** in Web.sitemap add the following: **enableLocalization = "true"**
2. Set **resourceKey** in each element with an appropriate name for the page.
3. Example: **resourceKey="HomePage"**



```

Web.sitemap X App_GlobalResources/Web.sitemap.resx App_GlobalResourc...sitemap.en-US.resx RegisterClients/Menu.aspx RegisterClien
<?xml version="1.0" encoding="utf-8" ?>
<siteMap xmlns="http://schemas.microsoft.com/AspNet/SiteMap-File-1.0" enableLocalization="true">
  <siteMapNode >
    <siteMapNode title="Начало" url="Home.aspx" resourceKey="HomePage" ></siteMapNode>
    <siteMapNode title="Книги" url="~/RegisterClients/Menu.aspx" resourceKey="MenuPage" >
      <siteMapNode title="Детайли" url="~/RegisterClients/Details.aspx" resourceKey="DetailsPage" />
    </siteMapNode>
    <siteMapNode title="Кошница" url="~/RegisterClients/Basket.aspx" resourceKey="BasketPage" ></siteMapNode>
    <siteMapNode title="За връзка с нас" url="Contacts.aspx" resourceKey="ContactsPage"></siteMapNode>
    <siteMapNode title="Карта на сайта" url="frmSiteMap.aspx" resourceKey="SiteMapPage"></siteMapNode>
    <siteMapNode title="Новини" url="frmNews.aspx" resourceKey="NewsPage" ></siteMapNode>
  </siteMapNode>
</siteMap>

```

Create two resource files (.resx) in **App\_GlobalResources** folder with names:

- Web.sitemap.resx
- Web.sitemap.en-US.resx

4. Add the following elements in both resource files:

App_GlobalResources/Menu.aspx		App_GlobalResources/Web.sitemap.resx	
Name	Value	Name	Value
BasketPage.title	Basket	BasketPage.title	Кошница
ContactsPage.title	Contacts	ContactsPage.title	За връзка с нас
DetailsPage.title	Details	DetailsPage.title	Детайли
HomePage.title	Home	HomePage.title	Начало
MenuPage.title	Books	MenuPage.title	Книги
NewsPage.title	News	NewsPage.title	Новини
SiteMapPage.title	SiteMap	SiteMapPage.title	Карта на сайта

Note: The key names in the global resource files generally should not include periods (.). However, the determination of the period is needed in global resources, which are listed in Web.siteMap. This is because of the syntax resourceKey. In some development environments, you can get an error during the design period if periods are used in the name. However, this should not affect the ability to edit or save the file and then the error is ignored and does not interfere the proper performance.

**Example result:**



# ELECTRONIC BOOKSHOP

[Did you forget your password?](#)  
 User Name:   
 Password:   
☐ Remember me next time.




[Home](#)
[Books](#)
[Basket](#)
[Contacts](#)
[SiteMap](#)
[News](#)

Book №	Type	Title	Author	Price	
WB111	Web	Ajax in Action	D. Crane	120.0000	<a href="#">See details for the book</a>
WB222	Web	Professional ASP.NET 2.0	B. Evjen	32.9900	<a href="#">See details for the book</a>
WB333	Web	Cascading Style Sheets	E. A. Meyer	39.9500	<a href="#">See details for the book</a>
WB444	Web	DOM Scripting	J. Keith	23.0900	<a href="#">See details for the book</a>
WB555	Web	Microsoft ASP.NET 2.0	D. Esposito	29.9900	<a href="#">See details for the book</a>
WB936	Web	Web Development	Vanya Lazarova	30.0000	<a href="#">See details for the book</a>

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