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MvcLocalization.zip

#### Introduction

In simple step I will show you to make you application globalize and localize in MVC 4.

I am writing this article because I found that there are not good and clean example of Globalization and Localization and many developer wont get any proper output from searching on Google. If you go hunting for Globalization and Localization for ASP.NET Webforms then you will get many cool example on this.

I to wrote Globalization and Localization in ASP.NET Webforms here is URL you can have a look at it: What is Globalization and Localization in ASP.Net.

Before starting let's have look at definition of globalization and localization below.



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Localization, on the other hand, is the process of customization to make our application behave depending on the current culture and locale. These two things go together.



Image is used from: Globalization.

# **Getting Started**

### **Create MVC application**

In Visual Studio 2013 select "File" from the menu and inside that select Project and then a New Dialog will popup with the name New project.

Inside that select Templates then select Visual C# and then inside that select web then select ASP.NET MVC 4 Web Application. Name your project "MvcLocalization" and then click OK.

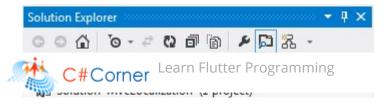
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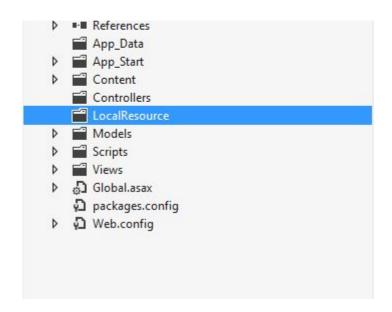


After this let's start with adding a resource to your application.

Before adding a resource I am will just create a folder named "LocalResource" and inside this I will add a resource.

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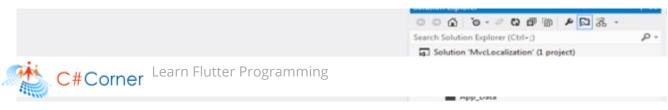


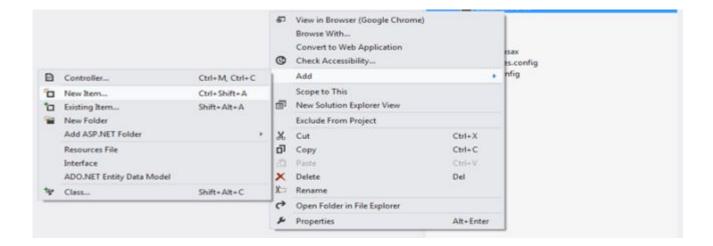
### Now to add the resource

- The Main Resource should be "Resource.resx".
- For the English you can add "Resource.en-GB.resx".
- For Marathi you can add "Resource.mr-IN.resx".
- For Hindi you can add "Resource.hi-IN.resx".
- For Arabic you can add "Resource.ar-SA.resx".

For adding the resource just right-click on the LocalResource folder then for inside what we just added select Add and then New Item.

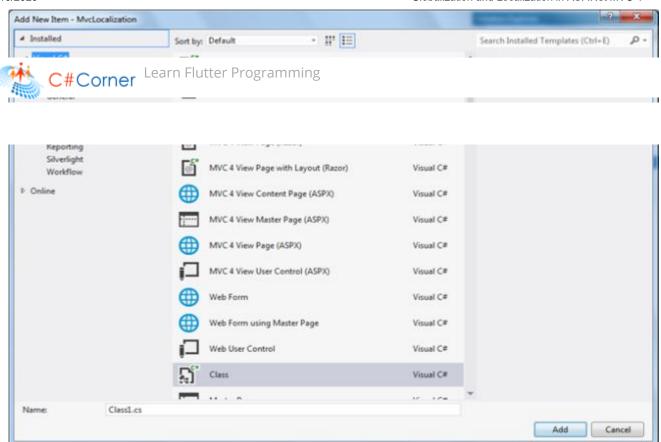
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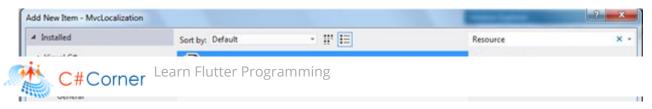
A New Dialog will popup with name the Add New Item.

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Inside the new dialog at the right side is a search box, type resource.

Login





Then I will name my first resource file "Resource.resx".

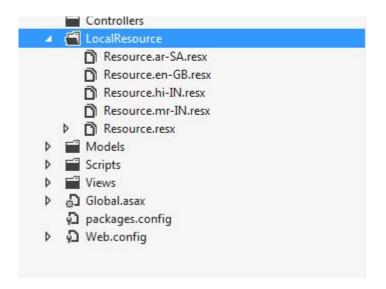
In a similar way we will add all other resources with the given names as above.

After adding all the resources your LocalResource folder will look as in the following snapshot.

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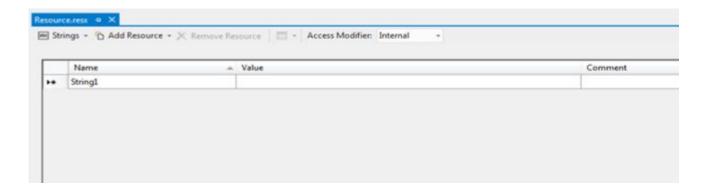
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#### 1. Add some data

Let us add some data to these files. Open "Resource.resx".



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Then just check the Access Modifier dropdownlist and make it Public.

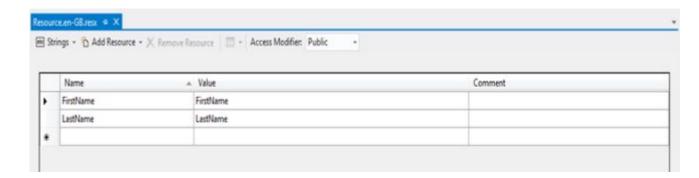




Save and close Resource.resx.

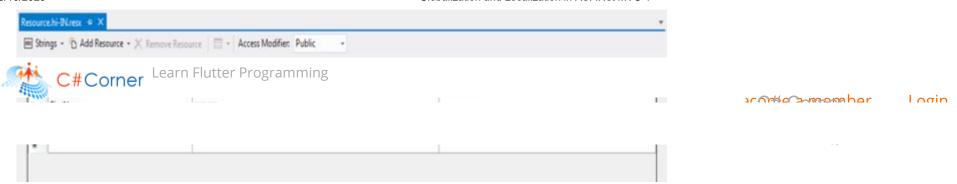
## 2. Open "Resource.en-GB.resx"

Add a name under the "Resource.en-GB.resx" filename and the value that you want to display in the value field.



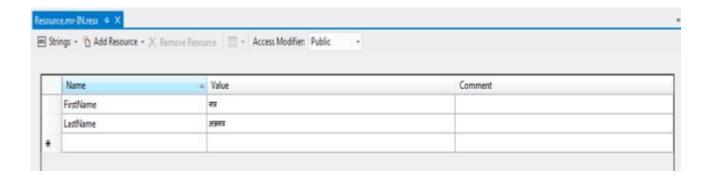
# 3. Open Resource.hi-IN.resx

Add a name under the "Resource.hi-IN.resx" filename and the value that you want to display in the value field.



# 4. Open "Resource.mr-IN.resx"

Add a name under the "Resource.mr-IN.resx" filename and the value that you want to display in the value field.



# 5. Open "Resource.ar-SA.resx"

Add a name under the "Resource.ar-SA.resx" filename and the value that you want to display in the value field.



## Adding Model and Attribute to Properties.

Now add a model with the name "Userdetails.cs" and then add a display attribute with the name similar to the resource "Name" column and then add ResourceType = typeof(Resource).

```
using System;
01.
02.
     using System.Collections.Generic;
     using System.ComponentModel.DataAnnotations;
03.
     using System.Linq;
04.
     using System.Web;
05.
     using MvcLocalization.LocalResource;
06.
07.
08.
     namespace MvcLocalization.Models
     {
09.
10.
          public class Userdetails
11.
12.
              [Display(Name = "FirstName", ResourceType = typeof(Resource))]
             public string FirstName { get; set; }
13.
14.
              [Display(Name = "LastName", ResourceType = typeof(Resource))]
15.
             public string LastName { get; set; }
16.
17.
18.
```

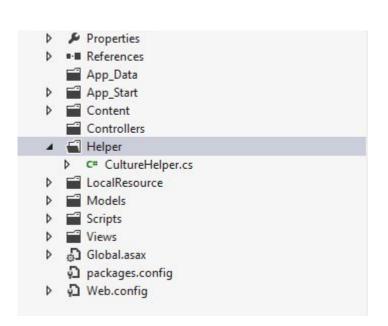
## Adding custom class with name CultureHelper.cs

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Now after completing the model now add a class with the name "CultureHelper.cs" in the new folder "Helper". This class sets the Culture with the use of threading.





Here is a code snippet of the CultureHelper class.

```
01.
     using System;
     using System.Collections.Generic;
02.
03.
     using System.Linq;
     using System.Web;
04.
05.
     using System.Web.SessionState;
     using System.Threading;
06.
     using System.Globalization;
07.
08.
09.
     namespace MvcLocalization.Helper
10.
11.
         public class CultureHelper
12.
              protected HttpSessionState session;
13.
```

52.

53.54.

```
14.
15.
              //constructor
16
              nublic CultureHelner(HttnSessionState httnSessionState)
               Learn Flutter Programming
                                                                                        acomposinhar
                                                                                                            Login
\angle \bot.
              hantic starte the calleneering
22.
23.
                  get
24.
                       if (Thread.CurrentThread.CurrentUICulture.Name == "en-GB")
25.
26.
                           return 0;
27.
28.
                       else if (Thread.CurrentThread.CurrentUICulture.Name == "hi-IN")
29.
30.
31.
                           return 1;
32.
33.
                       else if (Thread.CurrentThread.CurrentUICulture.Name == "mr-IN")
34.
                           return 2;
35.
36.
                       else if (Thread.CurrentThread.CurrentUICulture.Name == "ar-SA")
37.
38.
39.
                           return 3;
40.
41.
                       else
42.
43.
                           return 0;
44.
45.
46.
                  set
47.
48.
                       if (value == 0)
49.
50.
                           Thread.CurrentThread.CurrentUICulture = new CultureInfo("en-GB");
51.
```

else if (value == 1)

```
55.
56.
57.
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```

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```
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```

else if (value == 2)

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```
UZ.
                      ι
                          Thread.CurrentThread.CurrentUICulture = new CultureInfo("ar-SA");
63.
64.
65.
                      else
66.
                          Thread.CurrentThread.CurrentUICulture = CultureInfo.InvariantCulture;
67.
68.
69.
                  Thread.CurrentThread.CurrentCulture = Thread.CurrentThread.CurrentUICulture;
70.
71.
72.
73.
74.
75.
```

After adding CultureHelper now we are moving to the Controller.

## **Adding Controller**

In this part we will add 2 Controllers.

#### 1. BaseController

We use BaseController in MVC that is inherited by all other controllers. In BaseController, we write common code that can be used in all the pages, for example by setting the language in the current thread for a multilingual site.

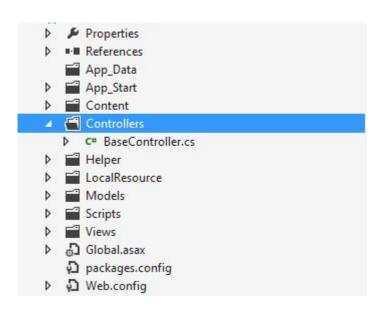
#### 2. HomeController

This Controller will inherit BaseController.

To add a Controller just right-click on the Controller folder and select Add then inside that select Controller.



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Here is a code snippet of BaseController.

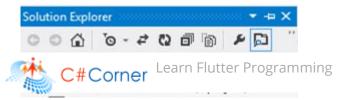
```
using System;
01.
02.
     using System.Collections.Generic;
     using System.Linq;
03.
     using System.Web;
04.
     using System.Web.Mvc;
05.
     using MvcLocalization.Helper;
06.
07.
     namespace MvcLocalization.Controllers
08.
09.
          public class BaseController : Controller
10.
11.
              protected override void ExecuteCore()
12.
13.
                  int culture = 0;
14.
```

**HomeController** 

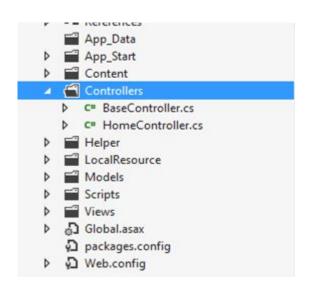
}

36.

37.



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Here is a code snippet of HomeController.

```
using System;
01.
02.
     using System.Collections.Generic;
03.
     using System.Linq;
04.
     using System.Web;
05.
     using System.Web.Mvc;
     using MvcLocalization.Helper;
06.
     using MvcLocalization.Models;
07.
08.
09.
     namespace MvcLocalization.Controllers
     {
10.
         public class HomeController : BaseController
11.
12.
13.
              public ActionResult Index()
14.
15.
```

After this we will work on View.

We will first work on \_LoginPartial.cshtml because we will add a link button on this page to display it on all pages of the website / application.

## \_LoginPartial.cshtml code snippet

```
@using System.Globalization
01.
     @using MvcLocalization
02.
     @using System.Threading;
03.
     @if (Request.IsAuthenticated)
04.
05.
06.
         >
             Hello, @Html.ActionLink(User.Identity.Name, "ChangePassword", "Account",
07.
08.
             routeValues: null,
09.
             htmlAttributes: new { @class = "username", title = "Change password" })!
10.
             @Html.ActionLink("Log off", "LogOff", "Account")
11.
```

```
12. 
13. }
14. else
C#Corner Learn Flutter Programming
```

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```
エフ.
20.
           @Html.ActionLink("Log in", "Login", "Account",
           routeValues: null, htmlAttributes: new { id = "loginLink" })
21.
22.
        23.
    }
24.
25.
    26.
        @{
27.
           CultureInfo currentCulture = Thread.CurrentThread.CurrentCulture;
28.
29.
           <a href="/Home/ChangeCurrentCulture/0">English</a>
30.
31.
           <a href="/Home/ChangeCurrentCulture/1">Hindi</a>
32.
33.
           <a href="/Home/ChangeCurrentCulture/2">Marathi</a>
34.
           <a href="/Home/ChangeCurrentCulture/3">Arabic</a>
35.
36.
37.
```

Here is the link from where the user will be able to change his website Language.

As we have decided for what language we will use that code.

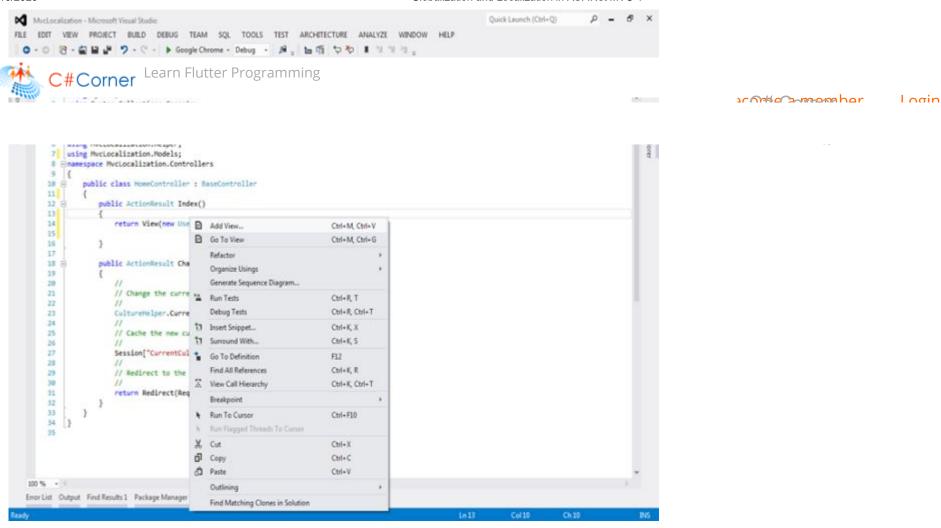
```
English: - 0 | Hindi: - 1 | Marathi: - 2 | Arabic: - 3
```

When the user clicks on this link it will call the Home Controller ChangeCurrentCulture Action result and it will pass an id to it.

According to that CultureHelper will get input and it will set the Culture for the page.

## **Adding View for HomeController**

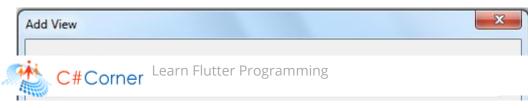
For adding a View just right-click anywhere inside HomeController and select Add View.

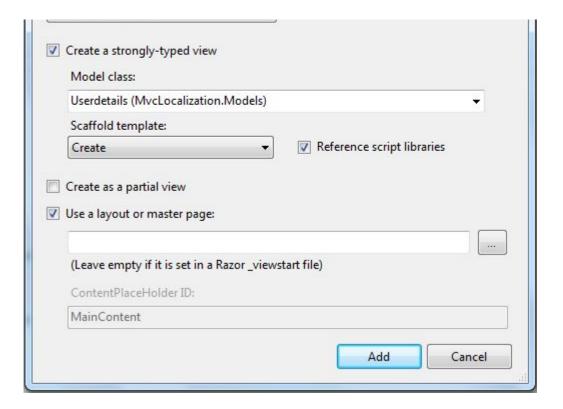


After clicking Add View a new dialog will popup with the name Add View. Inside that you need to select:

- View engine: Razor.
- Model Class: Userdetails.
- Scaffold template: Create.
- Use a layout or Master page: Check this Property.

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And click on the Add button.



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```
Controllers

Helper

LocalResource

Models

Scripts

Views

Home

Index.cshtml

Shared

ViewStart.cshtml

Web.config

Global.asax

packages.config

Web.config

Web.config
```

When adding a view using a Scaffold template all the code for the view will be generated.

# Index.cshtml code snippet.

```
01.
     @model MvcLocalization.Models.Userdetails
02.
03.
     @{
         ViewBag.Title = "Index";
04.
05.
      }
06.
07.
     <h2>Index</h2>
08.
09.
     @using (Html.BeginForm()) {
         @Html.ValidationSummary(true)
10.
11.
          <fieldset>
12.
```

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```
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ZU.
21.
              </div>
22.
              <div class="editor-label">
23.
                  @Html.LabelFor(model => model.LastName)
24.
25.
              </div>
              <div class="editor-field">
26.
                  @Html.EditorFor(model => model.LastName)
27.
28.
                  @Html.ValidationMessageFor(model => model.LastName)
29.
              </div>
30.
31.
              >
                  <input type="submit" value="Create" />
32.
33.
              </fieldset>
34.
35.
     }
36.
37.
     <div>
38.
          @Html.ActionLink("Back to List", "Index")
     </div>
39.
40.
     @section Scripts {
41.
          @Scripts.Render("~/bundles/jqueryval")
42.
43.
```

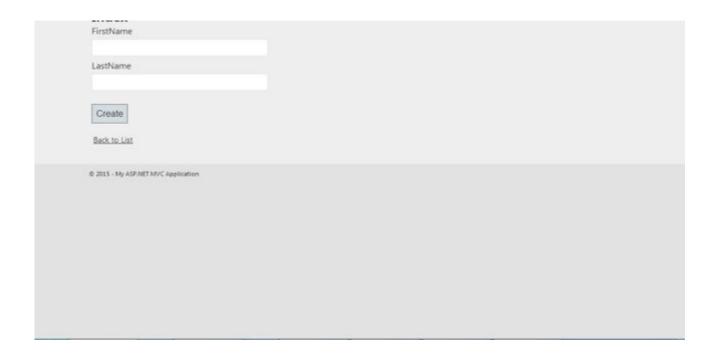
Now we have completely configured the code. Now we just need to run the application and check it.

## Complete view of page

It's taking the default culture, English, when it loads the first time.

Login

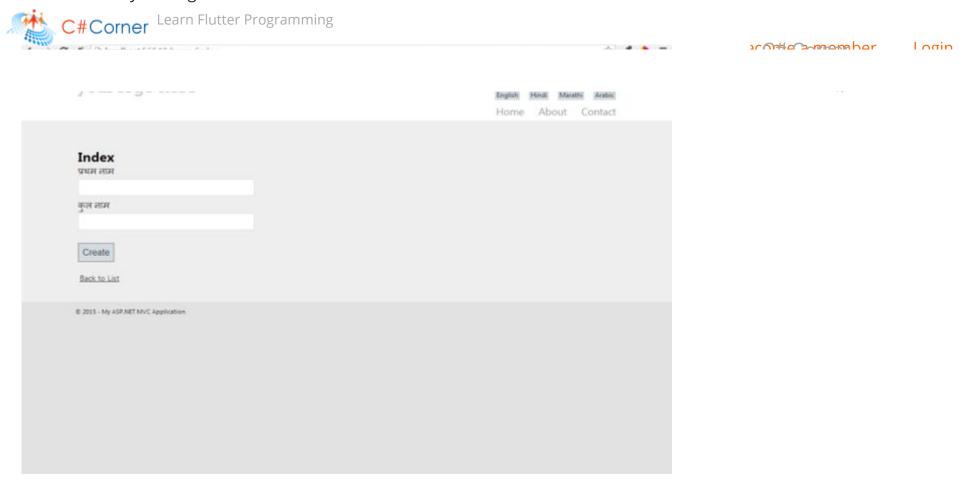




Here is the link we added.

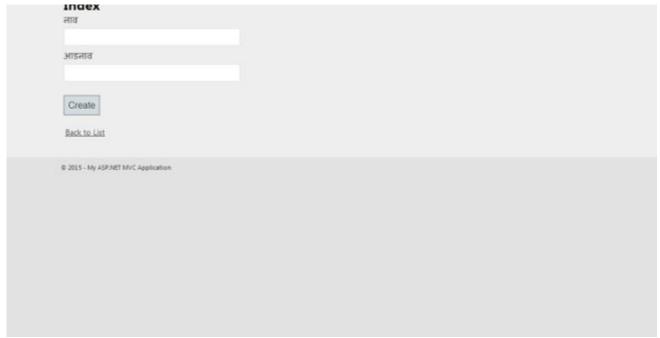


# Let's check it by clicking on Hindi first:



Now to click on Marathi.

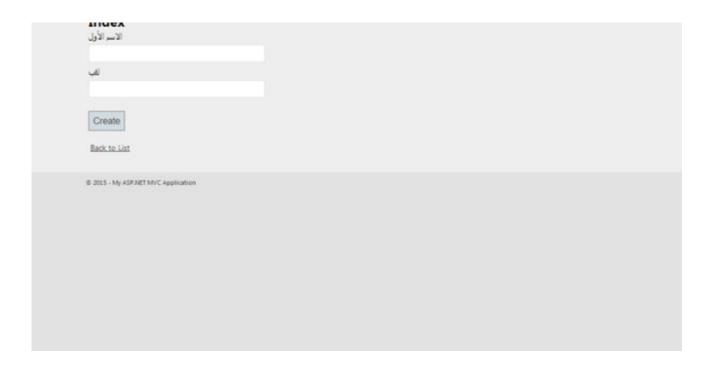




And finally click on Arabic.

Login





#### **Conclusion**

Finally we have completed Globalization and Localization in ASP.NET MVC 4. I hope you have enjoyed it.

You can download this code from the preceding link.

Like this article if you have enjoyed reading it.





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Arabization: Localization/Globalization in ASP.Net 2.0

ASP.NET MVC

Globalization in ASP.NET

Localization in ASP.NET

MVC



Saineshwar Bageri 10P 100

Indian Software Developer and Microsoft MVP from C# Corner MVP working on .Net Web Technology (Asp.net, C#, Sqlserver, MVC, Windows, Console Application, javascript, jquery, json, ORM Dapper) and also... Read more

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Type your comment here and press Enter Key (Minimum 10 characters)



I have one question sir how to insert data other language?

Krishna Parab

Sep 26, 2019

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Reply



Ek no sir.

Krishna Parab

Sep 26 2010

1783 111 1

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How to globalize the link 'Back to list' and menu like home, about, contact present on webpage

Sukanya Joshi Apr 17, 2019



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1858 36 0	0	0	Reply	
How to add to the URL: lang = en or lang=ru ? like this: mysite.com/home/index⟨=en				
FIFA FIFA		Oct (	01, 2018	
1884 10 0	0	0	Reply	
Can you please tell me how to add country code in url like msdn?				
Tridip Bhattacharjee		Nov '	16, 2017	
937 1.2k 34.6k	0	0	Reply	
Great article Saineshwar! i liked it. i tried it it's working fine! but i want to ask something. can i use this with HTML labels? i r lables are rendered through Razor like @Html.LabelFor() then conversion is working but not with the HTML lables like <label can="" how="" html="" i="" it="" labels?<="" make="" td="" useable="" with=""></label>				
Nabil Nawaz		Aug (	01, 2017	
1694 200 16.2k	0	0	Reply	
I have some error in Arabic view , the date is showing in hijri date . How to solve pls help me.				
Rakesh Sasi		May (	03, 2017	
1879 15 0	0	0	Reply	
In each line in UserDetails: [Display(Name = "FirstName", ResourceType = typeof(Resource))], I get an error, underlining 'Resource - "the type or name 'Resource' could not be found. Are you missinga Using directive or an assembly reference?'				
david wier		Feb (	08, 2017	
1890 4 0	0	0	Reply	
Hello, great post! I want to use the cache atributte on the index method but it doesnt take the parameter "Accept-Language" on the VaryByHeader, this is my code:[OutputCache(Duration = 360, VaryByHeader = "Accept-Language")]				
Adrián Rojas		Jan 2	26, 2017	

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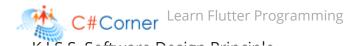
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