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How To Create Multiple Languages In ASP.NET MVC 4.5 Framework



Avinash Thakur Updated date Dec 31, 2020

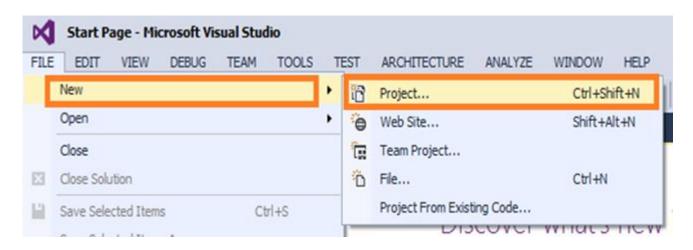
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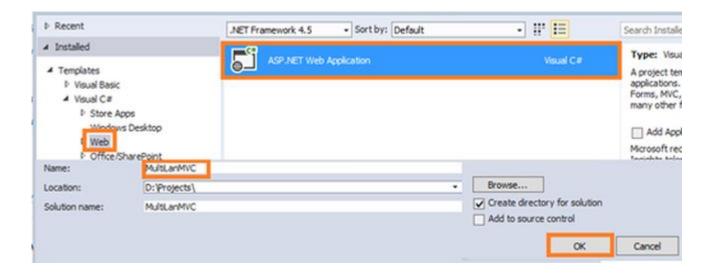
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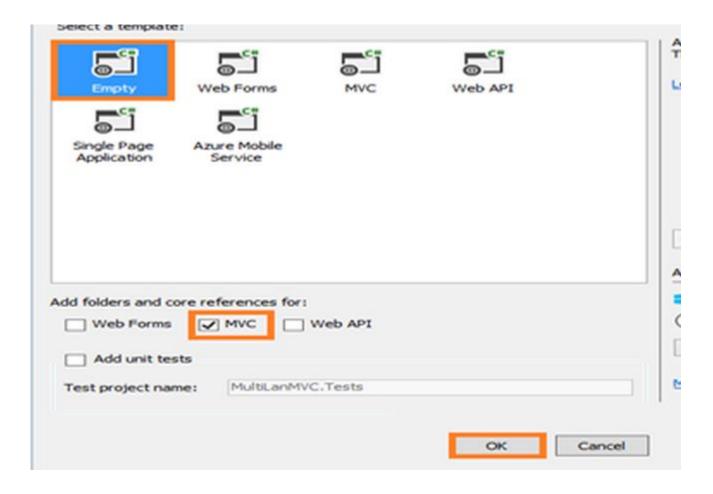
Step 1 - Open your Visual Studio and click File=> New=>Project, as shown below-



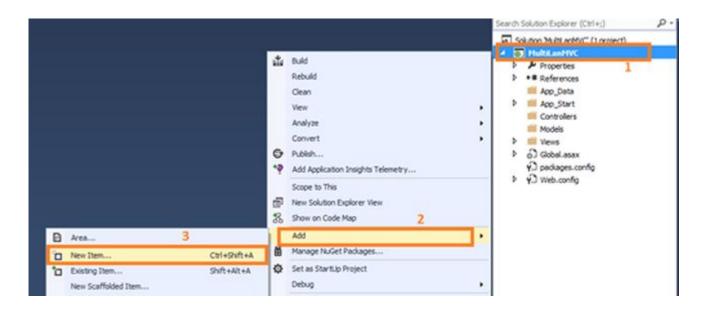
Step 2 - Now, select ASP.NET Web Application template and give a name to your project. Here, our project name is "MultiLanMVC" and click OK button.



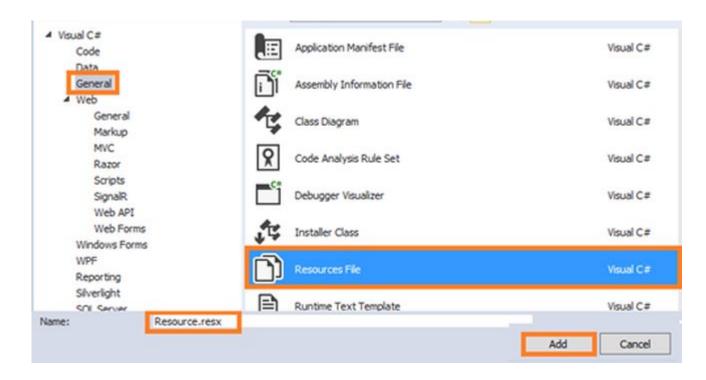
Step 3 - Select "Empty MVC template" and click OK button.



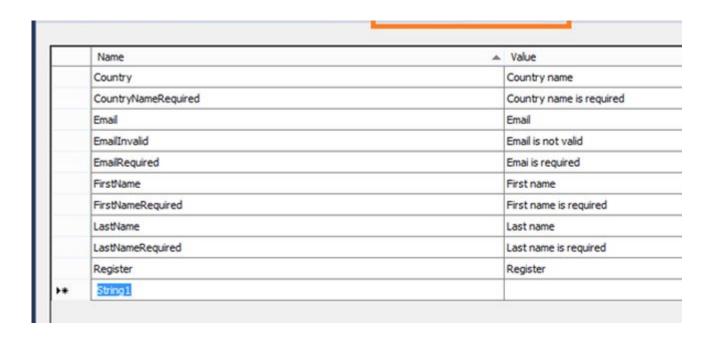
Step 4 - You have to go to Solution Explorer and right click on your Project name=> Add=>New item.



Step 5 - In this section, you have to add "Resources File".

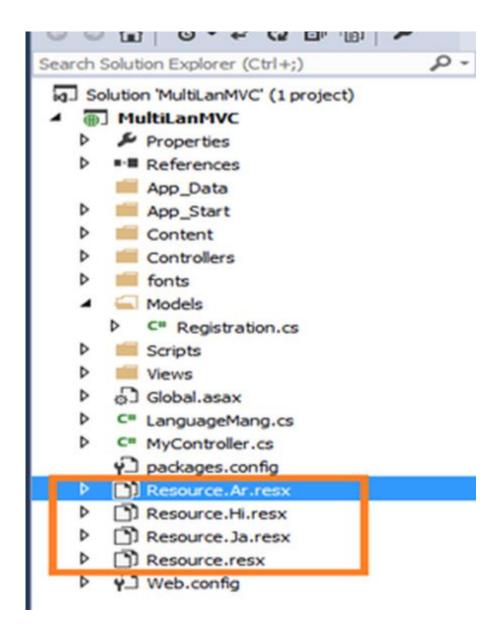


Step 6 - In this section, I have used Field name and its value declaration. You can click Access Modifier then select public access modifier. Don't forget to change all the resource files Access Modifier to public.

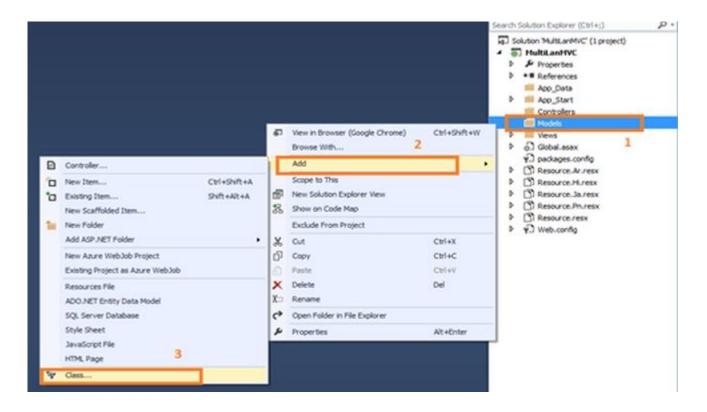


Step 7 - Here, I have added four resource files for four different languages. I'm discussing here four resource files, which are-

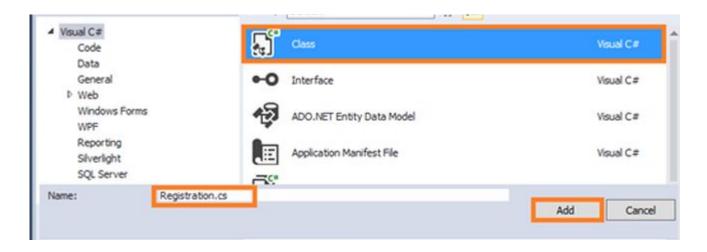
- Resource.resx- It is used for the default resource file associated with English. Here ".resx" is an extension file name in Resource file.
- Resource. Hi.resx- This resource file is used for Hindi language.
- Resource.Ja.resx- This resource file is used for Japanese language.
- Resource.Ar.resx- This resource file is used for Arabic language.



Step 8 - Go to Solution Explorer and right click on Models=>Add=>Class.



Step 9 - In the following figure, give a name to your model class. Here, our class name is "Registration".



Our coding is given below-

```
System;
System.Collections.Generic;
System.ComponentModel.DataAnnotations;
System.Ling;
System.Web;
ace MultiLanMVC.Models
blic class Registration {
  [Display(Name = "FirstName", ResourceType = typeof(Resource))]
  [Required(ErrorMessageResourceType = typeof(Resource), ErrorMessageResourceName = "FirstNameRequired")]
  public string FirstName {
      get;
      set;
  [Display(Name = "LastName", ResourceType = typeof(Resource))]
  [Required(ErrorMessageResourceType = typeof(Resource), ErrorMessageResourceName = "LastNameRequired")]
  public string LastName {
      get;
      set;
  [Display(Name = "Email", ResourceType = typeof(Resource))]
  [Required(ErrorMessageResourceType = typeof(Resource), ErrorMessageResourceName = "EmailRequired")]
```

```
public string Email {
    get;
    set;
}
[Display(Name = "Country", ResourceType = typeof(Resource))]
[Required(ErrorMessageResourceType = typeof(Resource))]
[Required(ErrorMessageResourceType = typeof(Resource), ErrorMessageResourceName = "CountryNameRequired")]
public string Country {
    get;
    set;
}
```

Step 10 - Go to Solution Explorer= > Right click on Project name= > Add= > Class => Enter Class name= > Add.

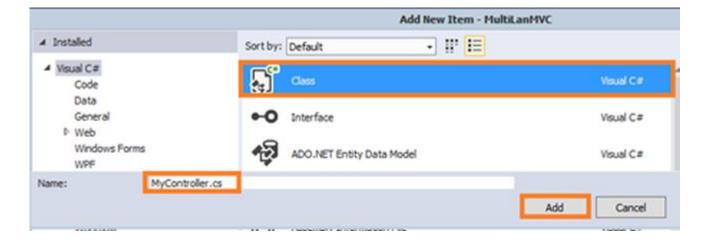


Coding

```
    01. using System;
    02. using System.Collections.Generic;
    03. using System.Globalization;
```

```
using System.web;
06.
07.
     namespace MultiLanMVC
08.
     {
09.
         public class LanguageMang {
             public static List < Languages > AvailableLanguages = new List < Languages > {
10.
11.
                  new Languages {
                      LanguageFullName = "English", LanguageCultureName = "en"
12.
13.
                  },
14.
                 new Languages {
                      LanguageFullName = "Hindi", LanguageCultureName = "Hi"
15.
                  },
16.
17.
                  new Languages {
                      LanguageFullName = "japanese", LanguageCultureName = "Ja"
18.
                 },
19.
20.
                 new Languages {
21.
                      LanguageFullName = "arabic", LanguageCultureName = "Ar"
22.
                  },
             };
23.
24.
             public static bool IsLanguageAvailable(string lang) {
                  return AvailableLanguages.Where(a => a.LanguageCultureName.Equals(lang)).FirstOrDefault()
25.
26.
             public static string GetDefaultLanguage() {
27.
                  return AvailableLanguages[0].LanguageCultureName;
28.
29.
             public void SetLanguage(string lang) {
30.
31.
                 try {
                      if (!IsLanguageAvailable(lang)) lang = GetDefaultLanguage();
32.
33.
                      var cultureInfo = new CultureInfo(lang);
                      Thread.CurrentThread.CurrentUICulture = cultureInfo;
34.
35.
                      Thread.CurrentThread.CurrentCulture = CultureInfo.CreateSpecificCulture(cultureInfo.N
                      HttpCookie langCookie = new HttpCookie("culture", lang);
36.
                      langCookie.Expires = DateTime.Now.AddYears(1);
37.
                      HttpContext.Current.Response.Cookies.Add(langCookie);
38.
                  } catch (Exception) {}
39.
40.
41.
         public class Languages {
42.
43.
             public string LanguageFullName {
44.
                  get;
```

Step 11 - Here, add another class. Go to Solution Explorer= > Right click on Project name= > Add= > Class => Enter class name= > Add. Here, our Class name is "MyController".

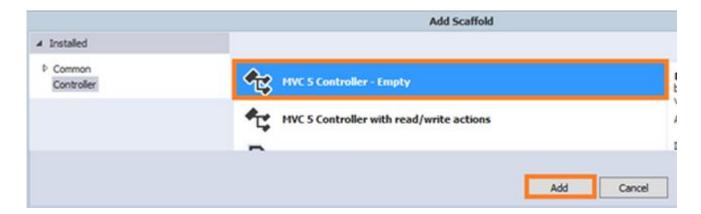


Our coding is given below-

```
01.
     using System;
     using System.Collections.Generic;
02.
03.
     using System.Linq;
     using System.Web;
04.
     using System.Web.Mvc;
05.
     namespace MultiLanMVC
06.
07.
08.
         public class MyController: Controller
09.
              protected override IAsyncResult BeginExecuteCore(AsyncCallback callback, object state) {
10.
                  string lang = null;
11.
```

```
14.
                      tang = tangcookie.vatue;
15.
                  } else {
16.
                      var userLanguage = Request.UserLanguages;
                      var userLang = userLanguage != null ? userLanguage[0] : "";
17.
                      if (userLang != "") {
18.
19.
                          lang = userLang;
20.
                      } else {
                          lang = LanguageMang.GetDefaultLanguage();
21.
22.
23.
24.
                  new LanguageMang().SetLanguage(lang);
                  return base.BeginExecuteCore(callback, state);
25.
26.
27.
28.
```

Step 12 - Now, right click on your Controller folder and add=>Controller=>Empty Controller and add Controller name. I have a controller name as "HomeController".



Code

```
01. using MultiLanMVC.Models;
02. using System;
03. using System.Collections.Generic;
04. using System.Linq;
```

```
0/.
     namespace MultilanMvc.Controllers
08.
09.
         public class HomeController: MyController {
              // GET: Home
10.
              public ActionResult Index() {
11.
12.
                      return View();
13.
14.
                  [HttpPost]
             public ActionResult Index(Registration r) {
15.
                  return View(r);
16.
17.
18.
             public ActionResult ChangeLanguage(string lang) {
                  new LanguageMang().SetLanguage(lang);
19.
                  return RedirectToAction("Index", "Home");
20.
21.
22.
23.
```

Step 13 - Now, right click on ActionResult and add a new View. Click to add button.



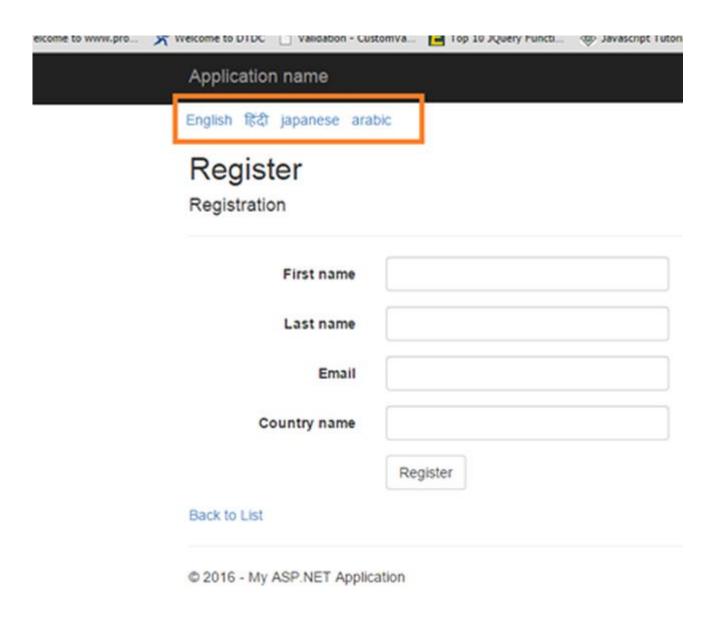
```
@model MultiLanMVC.Models.Registration
01.
02.
         ViewBag.Title = MultiLanMVC.Resource.Register;
03.
     } < h2 > @MultiLanMVC.Resource.Register < /h2>
04.
     @using(Html.BeginForm()) {
05.
         @Html.AntiForgeryToken() < div class = "form-</pre>
06.
     horizontal" > < h4 > Registration < /h4> < hr / > @Html.ValidationSummary(true, "", new {
             @class = "text-danger"
07.
         }) < div class = "form-</pre>
08.
     group" > @Html.LabelFor(model => model.FirstName, htmlAttributes: new {
             @class = "control-label col-md-2"
09.
         }) < div class = "col-md-10" > @Html.EditorFor(model => model.FirstName, new {
10.
             htmlAttributes = new {
11.
                 @class = "form-control"
12.
13.
         })
14.
         @Html.ValidationMessageFor(model => model.FirstName, "", new {
15.
             @class = "text-danger"
16.
         }) < /div> < /div> < div class = "form-</pre>
17.
     group" > @Html.LabelFor(model => model.LastName, htmlAttributes: new {
```

```
ntmlAttributes = new {
20.
                 @class = "form-control"
21.
22.
23.
         })
         @Html.ValidationMessageFor(model => model.LastName, "", new {
24.
25.
             @class = "text-danger"
         }) < /div> < /div> < div class = "form-</pre>
26.
     group" > @Html.LabelFor(model => model.Email, htmlAttributes: new {
             @class = "control-label col-md-2"
27.
         }) < div class = "col-md-10" > @Html.EditorFor(model => model.Email, new {
28.
             htmlAttributes = new {
29.
                 @class = "form-control"
30.
31.
32.
         })
33.
         @Html.ValidationMessageFor(model => model.Email, "", new {
             @class = "text-danger"
34.
         }) < /div> < /div> < div class = "form-</pre>
35.
     group" > @Html.LabelFor(model => model.Country, htmlAttributes: new {
             @class = "control-label col-md-2"
36.
         }) < div class = "col-md-10" > @Html.EditorFor(model => model.Country, new {
37.
             htmlAttributes = new {
38.
                 @class = "form-control"
39.
40.
41.
         @Html.ValidationMessageFor(model => model.Country, "", new {
42.
             @class = "text-danger"
43.
         }) < /div> < /div> < div class = "form-group" > < div class = "col-md-offset-2 col-md-
44.
     10" > < input type = "submit"</pre>
         value = "@MultiLanMVC.Resource.Register"
45.
         class = "btn btn-default" / > < /div> < /div> < /div>
46.
     } < div > @Html.ActionLink("Back to List", "Index") < /div> < script src = "~/Scripts/jquery-</pre>
47.
     1.10.2.min.js" > < /script> < script src = "~/Scripts/jquery.validate.min.js" > < /script> < scri
```

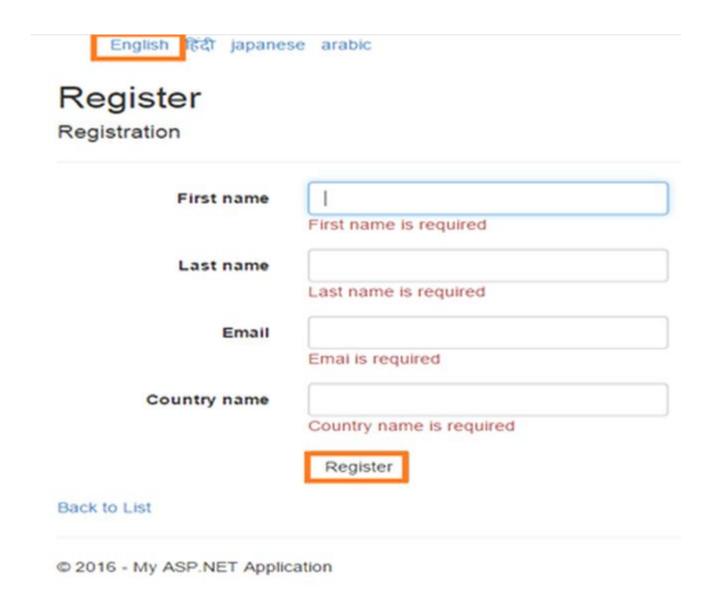
Step 14 - Add the given code in Complete Layout page. (_Layout .cshtml).

```
06.    @Html.ActionLink(i.LanguageFullName, "ChangeLanguage", "Home", new { lang = i.LanguageCultureName },
07.    }
08.    }
09.    </div>
```

Here, the default output is given blow-



Click English tab at the top of the page and you will see all the required validations are in Spanish language.



Click Hindi tab at the top of the page and then you will see all the required validations are in Hindi language.

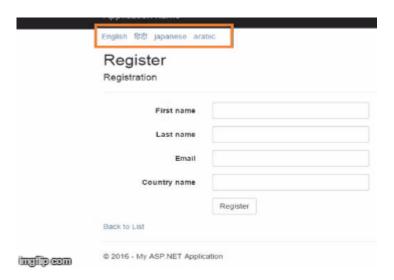
रजिस्टर		
Registration		
पहला नाम		
	पहला नाम आवश्यक है	
अंतिम नाम		
	अंतिम नाम आवश्यक है	
ईमेल		
	ईमेल की जरूरत है	
देश का नाम		
	देश नाम की आवश्यकता है	
	रजिस्टर	
Back to List		

Click Japanese tab at the top of the page and you will see all the required validations are in Japanese language.

登録	
Registration	
ファーストネーム	I
	最初の名前が必要です
苗字	
	姓が必要です
Eメール	
	メールが必要です
国の名前	
	国名が必要です
	登録 -
ack to List	

Click Arabic tab at the top of the page and then you will see all the required validations are in Arabic language.

تسجيل	
Registration	
الأسم الأول	
	مطلوب الأسم الأول
الكنية	
	مطلوب اسم العائلة
البريد الإلكتروني	
	مطلوب البريد الإلكتروني
اسم الدولة	
	مطلوب اسم البلد
	تسجيل
Back to List	



I hope you enjoyed this multi-language tutorial. Follow C# Corner to learn new things about ASP.NET MVC. Thanks for reading this article.



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Avinash Thakur

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2028 13 0

Jun 07, 2021

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How to add error to resource file which we validate inside the controller. For eg: if drop down selected or not we add a validation then how to add that error message to resource file?

pushpa Acharya

Feb 02, 2021

1971 70 0

0 0 Reply



In Registration class, typeof(Resource) shows error[Display(Name = "FirstName", ResourceType = typeof(Resource))]

Imtiaj Ahammad

Dec 29, 2020

2016 26 0

1 Reply

0

In your solution default Resource.resx file should be present.

Only change my Datetime Nk kanniyan 2030 11 167	0	Dec 0	08, 2020 Reply
Thanks for this tutorial, why i debug SetLanguage it goes to debug 2 times? Mahamod Goda 2001 40 0	0	Oct 2	29, 2020 Reply
Can you give me code for in .net core 2.1 suraj balwani 1893 148 0	0	Feb 1	1, 2020 Reply
It is not working for me when i am going to click on other lang it is displaying only english. Aravind Kumar 1530 511 487	0	Jan 2 0	21, 2020 Reply
If the code didn't work for you, it's probably because you didn't enable the cookies in your Web.config. Ibrahim Yassin 1949 92 0	0	Oct 2	22, 2019 Reply
Go To Web.config inside the <system.web> add (<httpcookies httponlycookies="true"></httpcookies>). Ibrahim Yassin</system.web>		Oct 2	22, 2019 0
Is there any need to add some code in global.cs Shidhu (SP) 1967 74 0	0	Aug 1 0	6, 2019 Reply
It works for me, to make the tutorial work you need to make sure that for example in LanguageMang.cs: new LanguageFullName = "French", LanguageCultureName = "Fr"} your resource file is named: Resource.Fr.resx abir attia 1987 54 0	ges { 0	Jul 3 1	30, 2019

1967 74 0

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