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Abhay Shanker

Jun 17 2014

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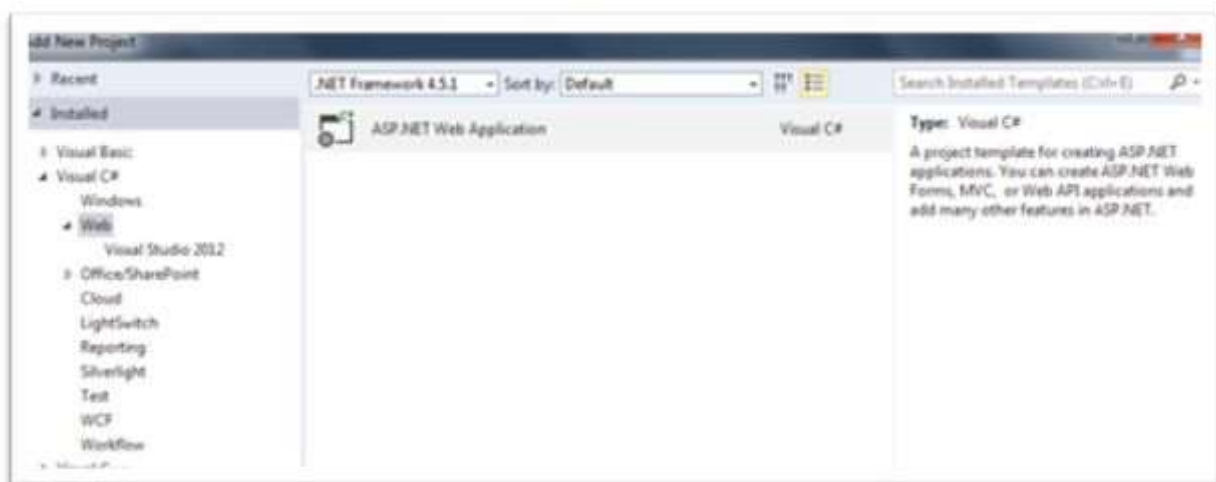
This article provides an overview of localization of a site in ASP.NET MVC 5 using language-specific resource files.

When a user uses an English language as his preferred language, the default UI culture is en-us. If the user uses a French-based browser, its default UI culture is fr-ca. ASP.NET MVC 5 needs to recognize this UI culture and display its own language to the browser. This MVC 5 web site will implement this localization for English and French languages or any other language as below.

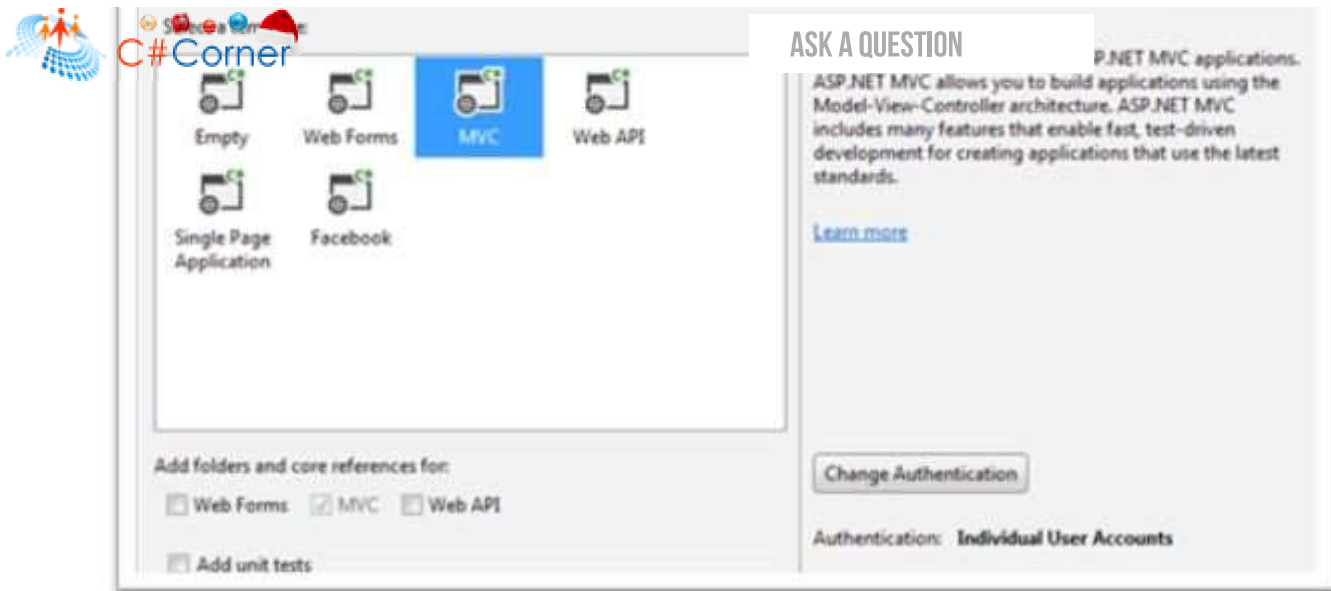
In this example I will explain how to localize the site in various languages using language-specific resource files.

Use the following procedure to create a sample of localizing a site:

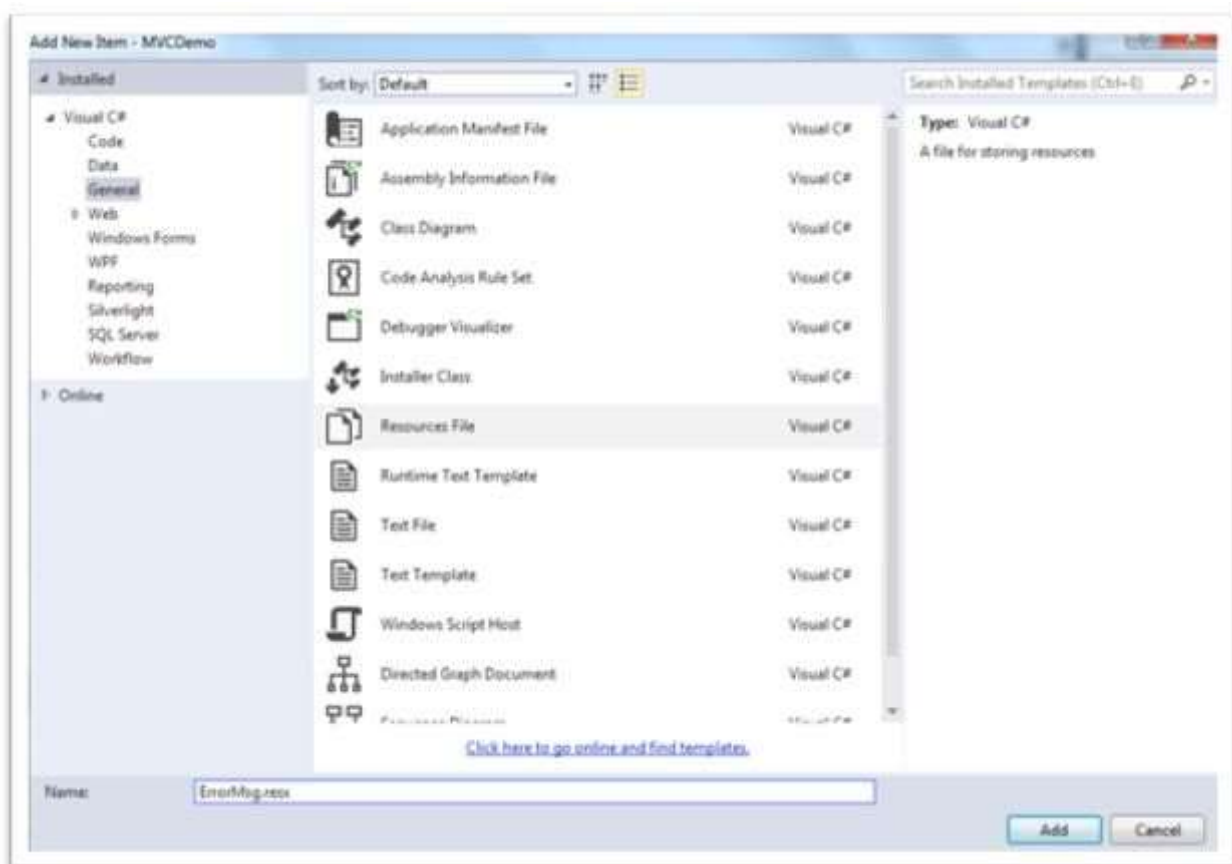
1. Open Visual Studio and select ASP.NET Web Application.



2. Next Select MVC.



3. Add a Resource File In My Case named it ErrorMsg.resx.



4. Set the Access Modifier of the resource file to Public.


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5. Add messages to the resource file as below:

Strings • Add Resource • Remove Resource • Access Modifier: Public	
Name	Value
Address	Please enter the Address.
ContactNo	Please enter the Contact No..
EmpEmail	Please enter the Email.
EmpName	Please enter the Employee Name
Experience	Please enter the Experience.
RegexEmpContactNo	Please enter a valid Contact No..
RegexEmpExperience	Please enter the correct Experience.
RegexEmpMail	Please enter the Email in correct format.
RegexEmpName	Characters are not allowed in Name Field.
Technology	Please enter the Technology.

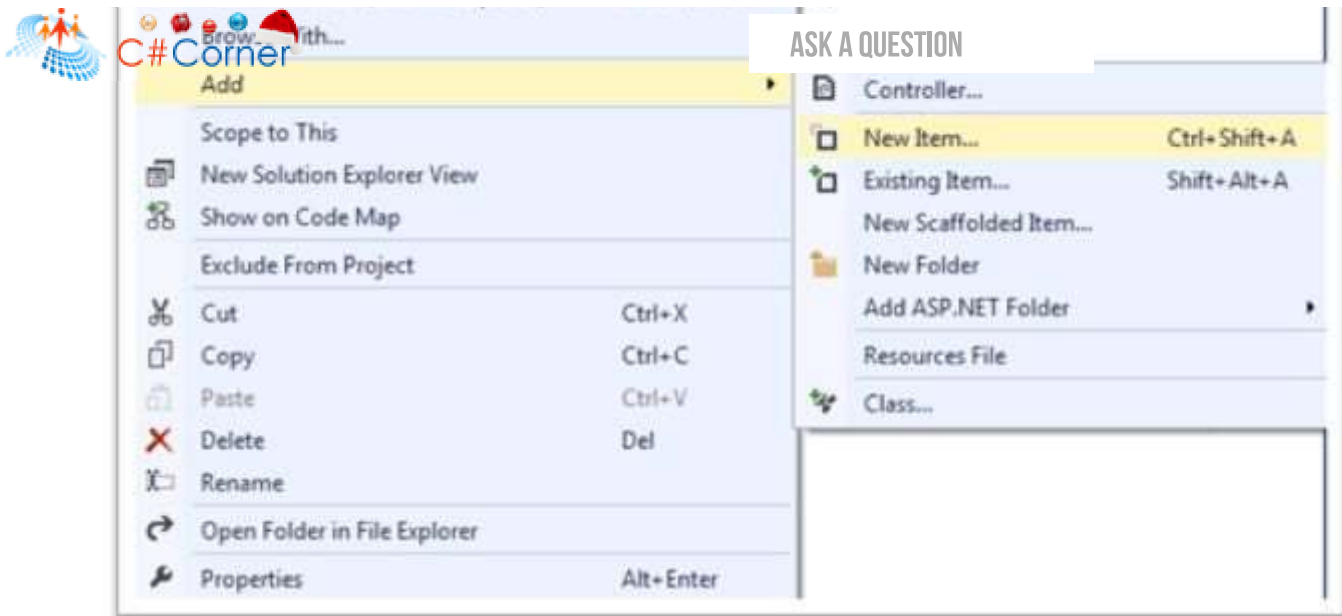
6. Add another Resource File having values in another language. In my case I named it ErrorMessage.fr.resx. This resource file has messages in the French language.

Name	Value
Address	S'il vous plaît entrez l'adresse.
ContactNo	S'il vous plaît entrer le contact n °.
EmpEmail	S'il vous plaît entrez l'email.
EmpName	S'il vous plaît entrez le Nom de l'employé
Experience	S'il vous plaît entrez l'expérience.
RegexEmpContactNo	S'il vous plaît entrer un contact valable no.
RegexEmpExperience	S'il vous plaît entrez la bonne expérience.
RegexEmpMail	S'il vous plaît entrer le courriel dans un format correct.
RegexEmpName	Caractères ne sont pas autorisés dans un champ.
Technology	S'il vous plaît entrer dans la technologie.

7. Next do a change in the Web.config file as below.

```
<system.web>
  <globalization enableClientBasedCulture="true" culture="auto" uiCulture="auto"/>
  <authentication mode="Forms" />
```

8. Right-click the Model and add a new item.



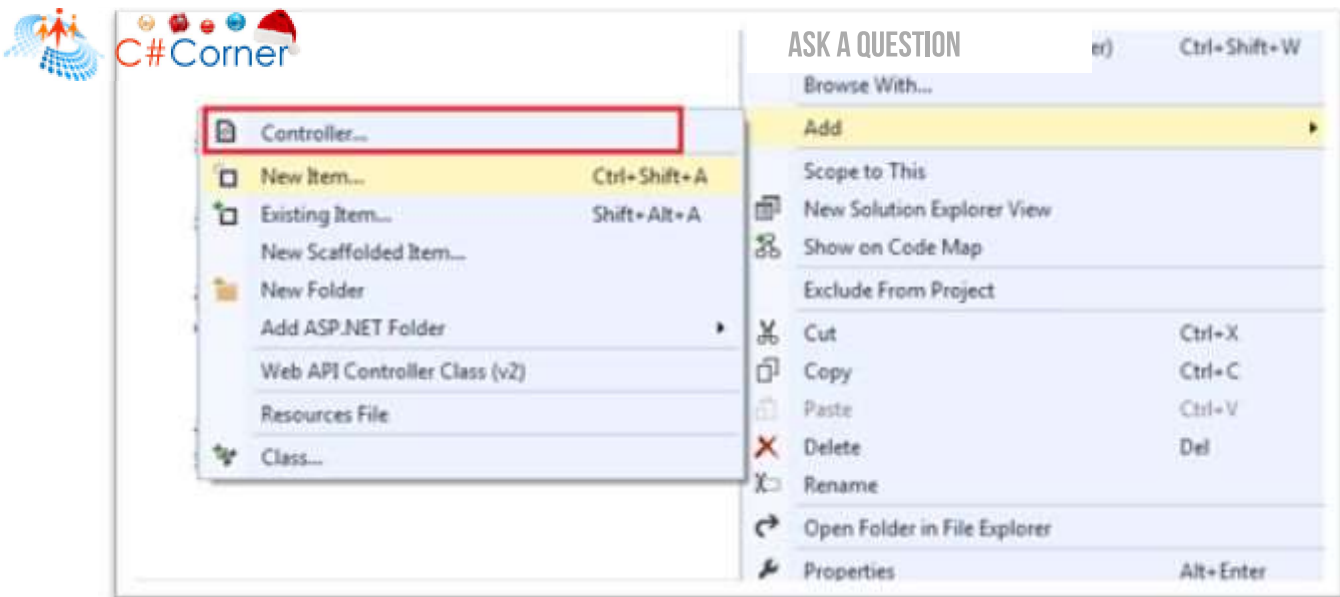
9. Add a class file named EmployeeModel.cs.

10. Modify the code as below:

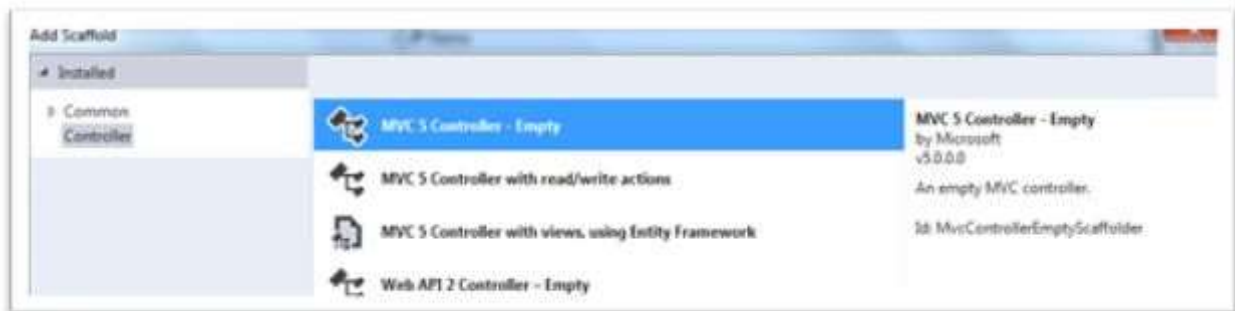
```

01. using System;
02. using System.Collections.Generic;
03. using System.ComponentModel.DataAnnotations;
04. using System.Linq;
05. using System.Web;
06.
07.
08. namespace MVCDemo.Models
09. {
10.     public class EmployeeModel
11.     {
12.         [Required(ErrorMessageResourceType = typeof(ERRORMSG), ErrorMessageResourceName = "E
13.         [RegularExpression(@"^[a-zA-Z']-\s[
14.         {1,40}$", ErrorMessageResourceType = typeof(ERRORMSG), ErrorMessageResourceName = "RegExEmpNa
15.
16.         public string Name { get; set; }
17.         [Required(ErrorMessageResourceType = typeof(ERRORMSG), ErrorMessageResourceName = "
18.         [RegularExpression(@"[\w-]+\s+([\w-]+\s+)+
19.         [\w-]+", ErrorMessageResourceType = typeof(ERRORMSG), ErrorMessageResourceName = "RegExEmpMa
20.         public string Email { get; set; }
21.         [Required(ErrorMessageResourceType = typeof(ERRORMSG), ErrorMessageResourceName = "A
22.         public string Address { get; set; }
23.         [Required(ErrorMessageResourceType = typeof(ERRORMSG), ErrorMessageResourceName = "T
24.         public string Technology { get; set; }
25.         [Required(ErrorMessageResourceType = typeof(ERRORMSG), ErrorMessageResourceName = "
26.         [RegularExpression(@"\d+
27.         (\.\d{1,2})?", ErrorMessageResourceType = typeof(ERRORMSG), ErrorMessageResourceName = "RegE
28.
29.         public decimal Experience { get; set; }
30.         [Required(ErrorMessageResourceType = typeof(ERRORMSG), ErrorMessageResourceName = "
31.         [RegularExpression(@"\d+", ErrorMessageResourceType = typeof(ERRORMSG), ErrorMessage
32.         public string ContactNo { get; set; }
33.     }
34. }

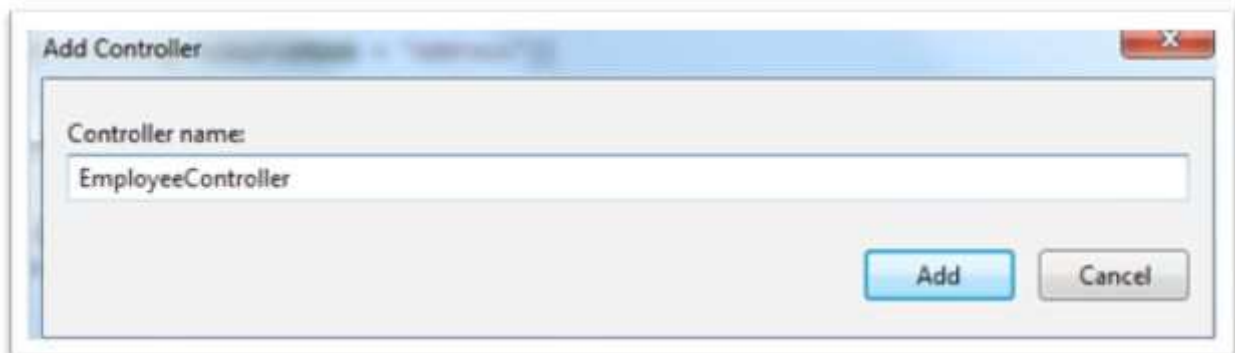
```



12. Select MVC 5 Controller - Empty.



13. Add a name to the Controller as below EmployeeController.



14. Modify the code of EmployeeController.cs as below:

```
01. using System;
02. using System.Collections.Generic;
03. using System.Linq;
04. using System.Web;
05. using System.Web.Mvc;
06.
```



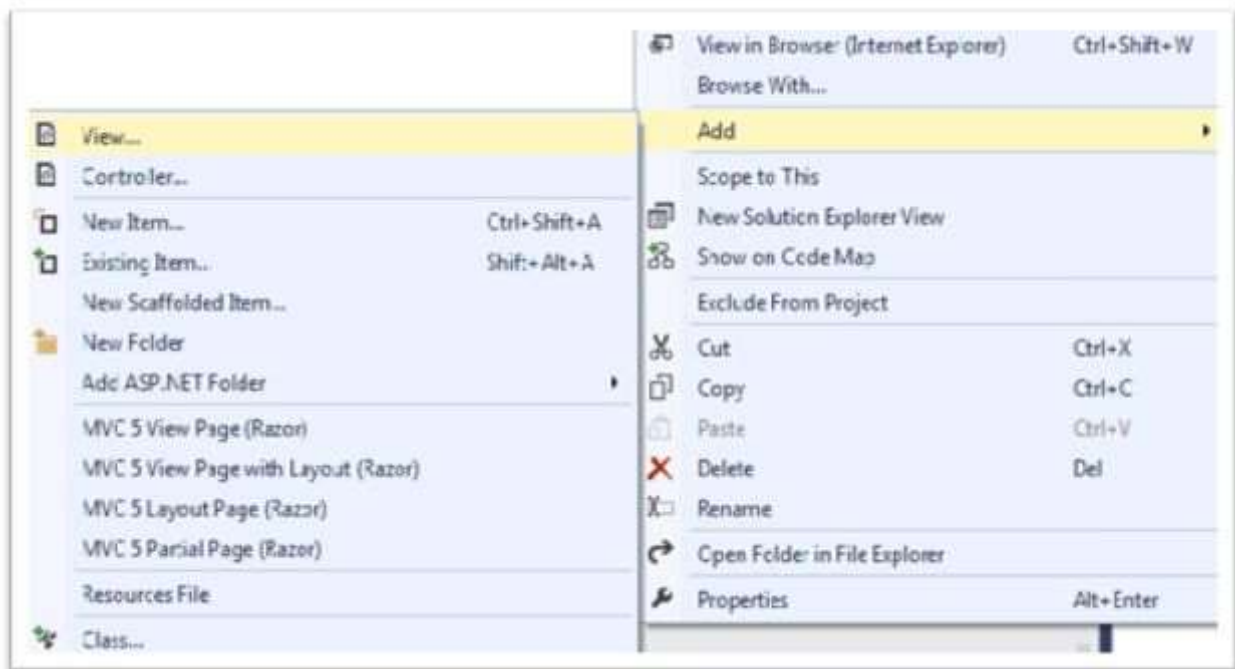
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```

10. // GET: /Employee/
11. public ActionResult Employee()
12. {
13.     MVCDemo.Models.EmployeeModel empModel = new Models.EmployeeModel();
14.     return View(empModel);
15. }
16.
17. [HttpPost]
18. public ActionResult Employee(MVCDemo.Models.EmployeeModel model)
19. {
20.     if (ModelState.IsValid)
21.     {
22.         //MVCDemo.Models.EmployeeModel empModel = new Models.EmployeeModel();
23.     }
24.     return View(model);
25. }
26. }
27. }
28. }

```

15. Right-click the view and add a view.



16. Name the view as Employee.cshtml.

17. Modify The code of Employee.cshtml as below:

```

01. @model MVCDemo.Models.EmployeeModel
02. @{
03.     ViewBag.Title = "Employee";
04. }
05. <h2>Employee</h2>
06. <form method="post">
07. @using (Html.BeginForm())
08. {
09.     @Html.AntiForgeryToken()
10.     @Html.ValidationSummary()
11.     <table>
12.         <tr>

```



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```

16. <tr>
17.     <td>Email:</td>
18.     <td>@Html.TextBox("Email") @Html.ValidationMessage("Email", "")</td>
19. </tr>
20. <tr>
21.     <td>Address:</td>
22.     <td>@Html.TextBox("Address")@Html.ValidationMessage("Address", "")</td>
23. </tr>
24. <tr>
25.     <td>Technology:</td>
26.     <td>@Html.TextBox("Technology")@Html.ValidationMessage("Technology", "")
27. </td>
28. </tr>
29. <tr>
30.     <td>Experience:</td>
31.     <td>@Html.TextBox("Experience")@Html.ValidationMessage("Experience", "")
32. </td>
33. </tr>
34. <tr>
35.     <td>Contact No.: </td>
36.     <td>@Html.TextBox("ContactNo")@Html.ValidationMessage("ContactNo", "")</td>
37. </tr>
38. <tr>
39.     <td colspan="2"><input type="submit" value="Submit" /></td>
40. </tr>
41. </table>
42. }
43. </form>
44. @section Scripts {
45. @Scripts.Render("~/Scripts/jquery.validate.js")
46. @Scripts.Render("~/Scripts/jquery.validate.unobtrusive.js")
47. @Scripts.Render("~/Scripts/MicrosoftAjax.debug.js")
48. @Scripts.Render("~/Scripts/MicrosoftMvcAjax.debug.js")
49. @Scripts.Render("~/Scripts/MicrosoftMvcValidation.debug.js")
50. }

```

18. Now click on Internet Explorer and run the program.



19. The UI will open as below:

20. Click the submit button without making any entry in the some field of the form.



Employee

- Please enter the Employee Name
- Please enter the Email.
- Please enter the Address.
- Please enter the Technology.
- Please enter the Contact No..

Name:

Email:

Address:

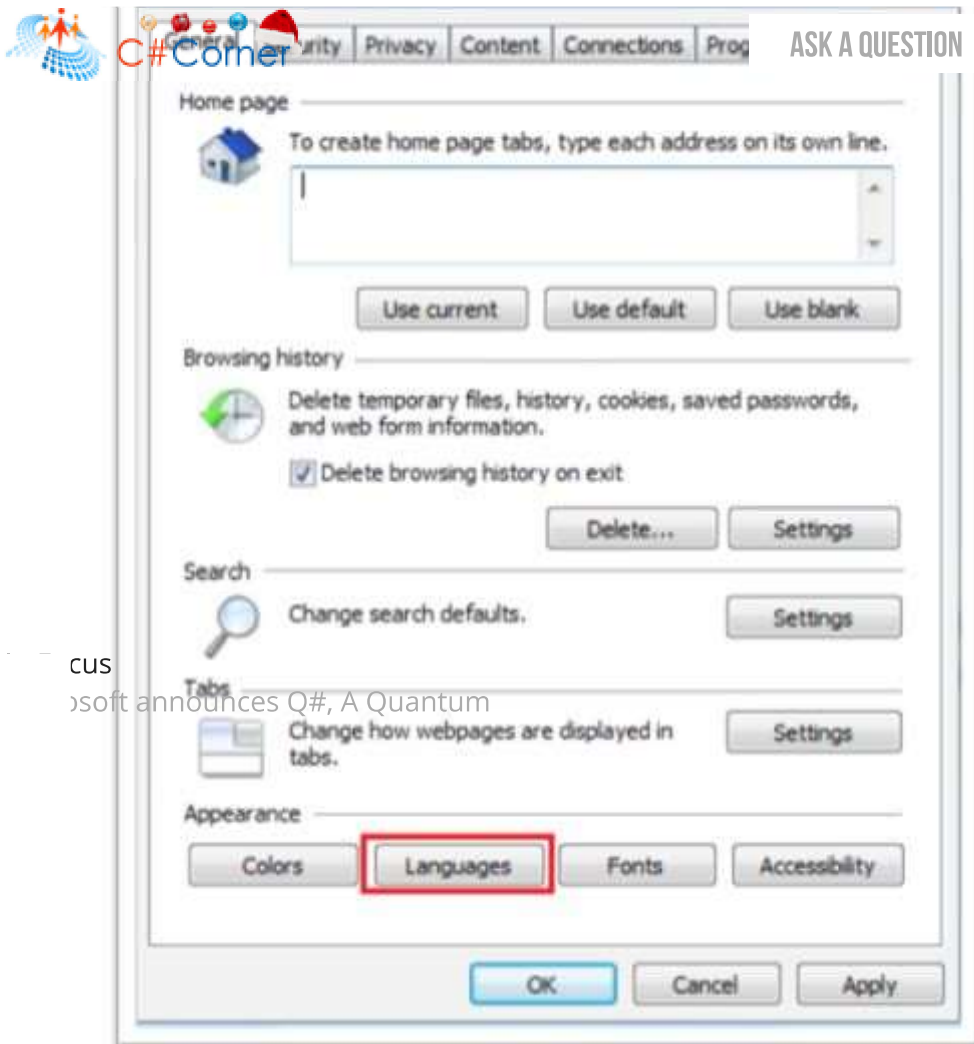
Technology:

Experience:

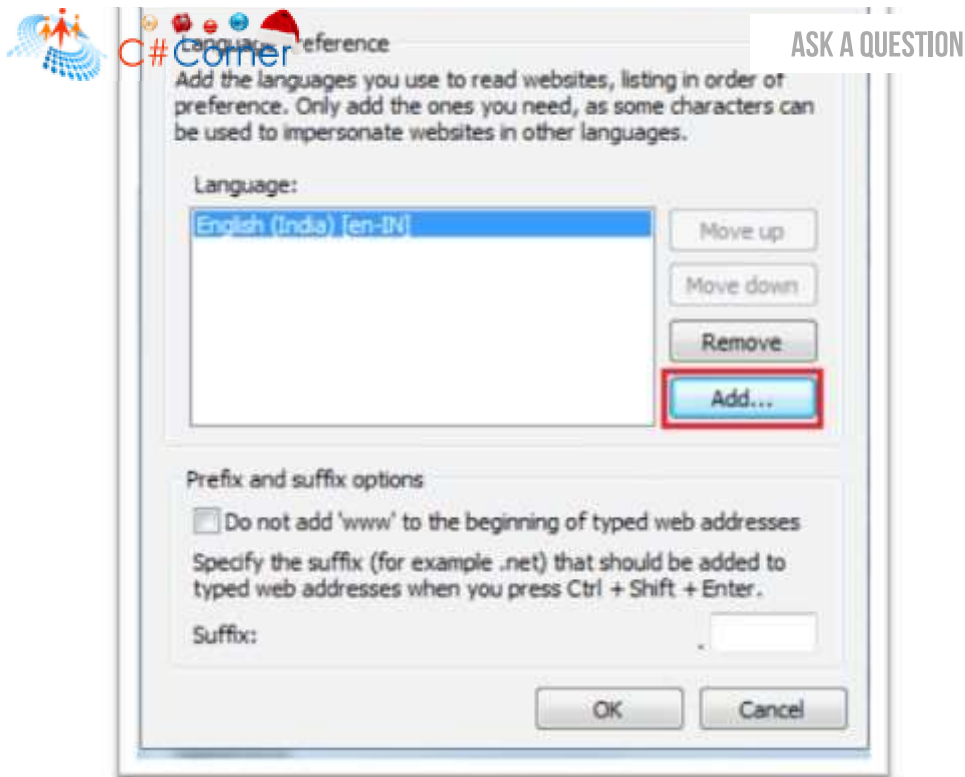
Contact No.:

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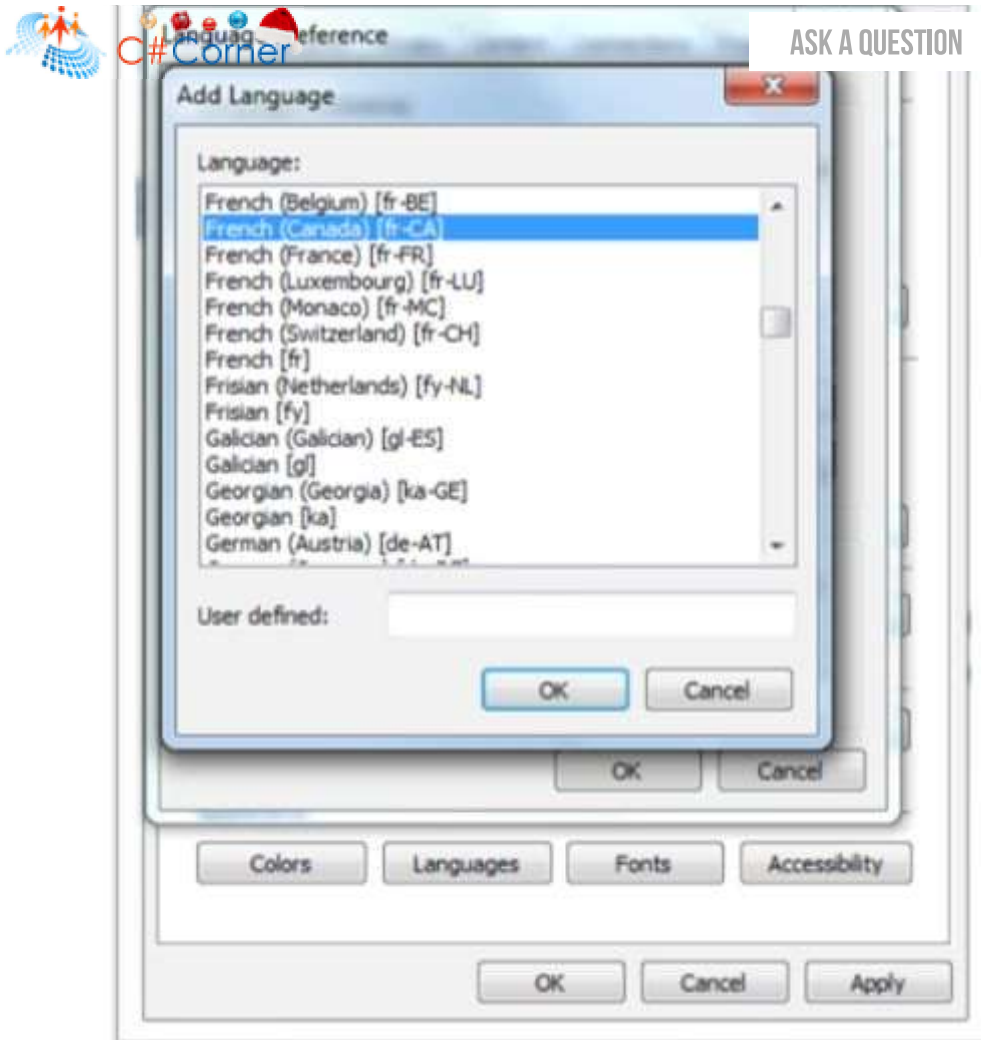
21. Now go to the browser and change the language for Tool -> Internet Options.




22. Click the Add button.



23. Select the language depending on your resource file language and click ok.



24. Run you application and click the submit button.



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Employee

- Caractères ne sont pas autorisés dans un champ.
- S'il vous plaît entrez l'email.
- S'il vous plaît entrez l'adresse.
- S'il vous plaît entrer dans la technologie.
- S'il vous plaît entrez la bonne expérience.
- S'il vous plaît entrer le contact n °.

Name:

Email:

Address:

Technology:

Experience:

Contact No.:

Conclusion

In this article I have explained how to localize easily and properly a MVC 5 web site.

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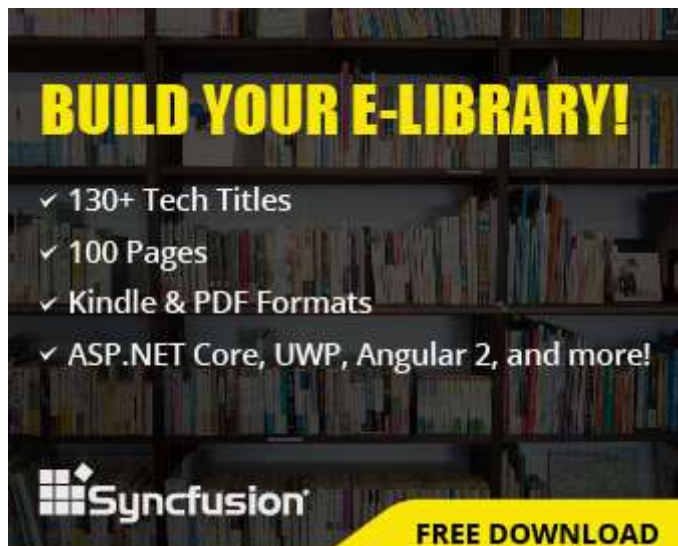
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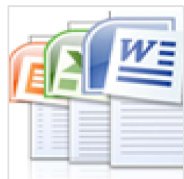
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