Sign up for our free weekly Web Developer Newsletter.





articles

0&A

forums

lounge

Search for articles, questions, tips



#### ASP.NFT MVC Client Side Validation





Sandeep Singh Shekhawat, 1 Oct 2014

**CPOL** 

Rate this:



🌟 4.79 (43 votes)

This article explains how to implement client-side validation in an ASP.NET MVC application.

ClientValidation.zip - 3.4 MB

#### Introduction

This article explains how to implement client-side validation in an ASP.NET MVC application. The validation implemented using ¡Query and ¡Query validation plug-in (¡query.validate.min.js and ¡query.validate.unobtrusive.min.js).

In the server-side validation (ASP.NET MVC Server-Side Validation), the page must be submitted via a postback to be validated on the server and if the model data is not valid then the server sends a response back to the client. With client-side validation, the input data is checked as soon as they are submitted, so there is no postback to the server and there is no page refresh.

## Using the Code

When you are developing an MVC application in Visual Studio 2012 then the client-side becomes enabled by default, but you can easily enable or disable the writing of the following app setting code snippet in the web.config file.

```
Hide Copy Code
<configuration>
  <appSettings>
    <add key="ClientValidationEnabled" value="true" />
    <add key="UnobtrusiveJavaScriptEnabled" value="true" />
  </appSettings>
</configuration>
```

The jQuery validation plug-in takes advantage of the Data Annotation attributes defined in the model, which means that you need to do very little to start using it. Let's create an **Employee** model (*Employee.cs* class file under the Models folder) that has two properties with Data annotation attributes.

```
Hide Copy Code
using System.ComponentModel.DataAnnotations;
namespace ClientValidation.Models
{
    public class Employee
```

After that you need to create the controller's action methods. These render views on the UI and bind a model with the view. So let's create a controller with two action methods that handle both request types (GET and POST respectively).

Hide Copy Code

```
using System.Web.Mvc;
using ClientValidation.Models;
namespace ClientValidation.Controllers
    public class EmployeeController : Controller
        public ActionResult Index()
            return View();
        [AcceptVerbs(HttpVerbs.Post)]
        public ActionResult Index(Employee model)
            if (ModelState.IsValid)
            {
                ViewBag.Name = model.Name;
                ViewBag.Email = model.Email;
            return View(model);
        }
    }
}
```

Thereafter create a strong view that the input field binds with the model and create a JavaScript function that uses the HTML Helper extension method **FieldIdFor()** to get the Id of the input field and shows the input field's value in an alert message.

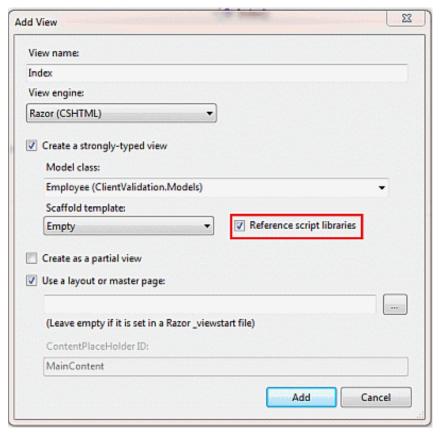


Figure 1.1: Add New View Screen

Here I checked "Reference script libraries," which means Visual Studio adds these references automatically. Visual Studio adds the following code snippet to the bottom of the view.

```
@section Scripts
{
    @Scripts.Render("~/bundles/jqueryval")
}
```

Now click on the "Add" button and the view is created as in the following code snippet:

```
Hide Shrink A Copy Code
@model ClientValidation.Models.Employee
@{
    ViewBag.Title = "Index";
@if (ViewData.ModelState.IsValid)
        if(@ViewBag.Name != null)
        {
                Name : @ViewBag.Name
                Email: @ViewBag.Email
        }
@using (Html.BeginForm()) {
    @Html.ValidationSummary(true)
    <fieldset>
        <legend>Employee</legend>
        <div class="editor-label">
            @Html.LabelFor(model => model.Name)
```

```
<div class="editor-field">
            @Html.EditorFor(model => model.Name)
            @Html.ValidationMessageFor(model => model.Name)
        <div class="editor-label">
            @Html.LabelFor(model => model.Email)
        </div>
        <div class="editor-field">
            @Html.EditorFor(model => model.Email)
            @Html.ValidationMessageFor(model => model.Email)
        </div>
        >
            <input type="submit" value="Create" />
        </fieldset>
@section Scripts
}
    @Scripts.Render("~/bundles/jqueryval")
}
```

# Output of Application

Let's run the application and test the following scenario.

1. When all fields are empty:

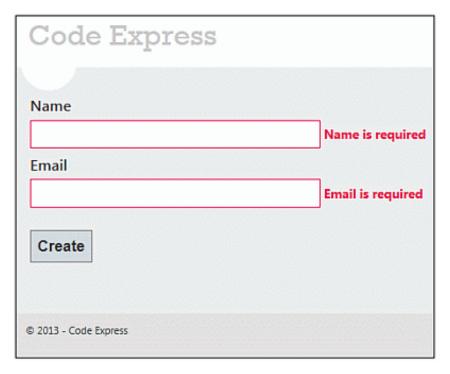


Figure 1.2: Validation Message when both fields are empty

2. When the Name field is empty but Email is not valid:

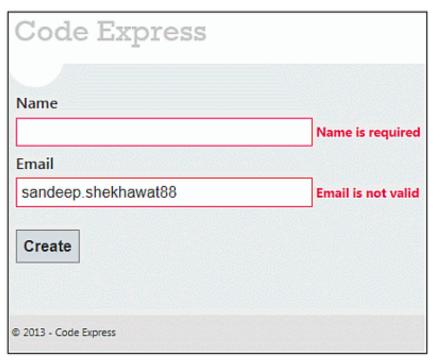


Figure 1.3 : Validation Message when Email is not valid

3. When both fields are valid:



Figure 1.4 All fields are valid

### License

This article, along with any associated source code and files, is licensed under The Code Project Open License (CPOL)

#### Share

EMAIL TWITTER

## About the Author



## Sandeep Singh Shekhawat



Sandeep Singh Shekhawat is a Software Developer. He is awarded for C# Corner MVP(2013,2014 and 2015) and CodeProject MVP (2015). His three articles at CodeProject are prize wining in article competition. His more than 10 articles has been selected Article of the Day at Microsoft ASP.NET (http://www.asp.net/) community.

## You may also be interested in...



A Beginner's Tutorial on Validating Model Data and Unobtrusive Client side Validation in ASP.NET MVC



Custom Client Side Validation in ASP.NET MVC3



Enable or Disable ASP.NET Validation on Client Side



Office 365 SharePoint Online Architectural considerations



Add HTML5 Document Viewer to ASP.NET MVC 5 Project



Increase System Availability by Leveraging Apache Tomcat Clustering

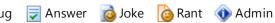
# Comments and Discussions

	Search Comments		Go
		First Prev	Ne
[My vote of 1] Not client side validation at al Bo83 21-Sep-15 17:00	I. 🖄		
Not client side validation at all. ABO83 21-Sep-15 17:00			
what is difference in coding for client side an Member 10374419 13-Jul-15 1:36	d server side validation using mvc ı	razor 🖄	
Good & Simple 🖈 Slavimir Vesic 17-Feb-15 21:04			
bundle not existant 🖈 Member 10374498 9-Dec-14 9:22			
Good One 🖈 Shemeemsha RA 24-Sep-14 22:54			
Client Side Validation ဳ Md Kamal Azhar 10-Jul-14 19:21			
Validation 🖈 NithyaGopu 31-Mar-14 20:34			
My vote of 5 🖄 Mihai MOGA 14-Feb-14 17:11			
My vote of 5 🔊 Renju Vinod 10-Feb-14 17:22			
Awesome 🖄 jjlangatjose 3-Feb-14 19:40			
My vote of 4 🖄 Pranay Rana 3-Feb-14 1:41			
My vote of 5 🖈 Humayun Kabir Mamun 29-Jan-14 18:13			

















Everything else Copyright © CodeProject, 1999-2015

Permalink | Advertise | Privacy | Terms of Use | Mobile Web03 | 2.8.1509028.1 | Last Updated 2 Oct 2014

Seleccionar idioma ▼ Layout: fixed | fluid Article Copyright 2014 by Sandeep Singh Shekhawat