



# Validation Message and Validation Summary Tag Helper in ASP.NET MVC Core 3.1



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## Introduction

This blog will explain validation messages and the validation summary tag helper in ASP.NET MVC core. Validation messages and the validation tag helper are similar to `ValidationMessage` and `ValidationMessageFor` in asp.net MVC.

Complete [code](#).

**ValidationMessage TagHelper:** validation message tag helper targets span element with `asp-validation-for` attribute which display validation message from modal class validation property.

**Validation Summary TagHelper:** Validation Summary tag helper target the div element. It has `asp-validation-summary` attribute which display model validation summary on browser client.

**ValidationMessage:** It is an extension method that is a loosely typed method. It displays a validation message if an error exists for the specified field in the `ModelStateDictionary` object.

model class.

**ValidationSummary:** This ValidationSummary helper method generates an unordered list (ul element) of validation messages that are in the ModelStateDictionary object.

### Steps:

Step 1: Create asp.net MVC core project in visual studio 2019 with MVC (Model-View-Controller) template.

Step 2: Right-click on models folder and “Add” class with name student.

```
01. using System;
02. using System.ComponentModel.DataAnnotations;
03.
04. namespace ValidationMessageValidationSummaryTagHelper_Demo.Models
05. {
06.     public class Student
07.     {
08.         [Key]
09.         public int Id { get; set; }
10.
11.         [Required(ErrorMessage = "Please enter name")]
12.         public string Name { get; set; }
13.
14.         [Required(ErrorMessage = "Please choose gender")]
15.         public string Gender { get; set; }
16.
17.         [Required(ErrorMessage = "Please choose date of birth")]
18.         [Display(Name = "Date of Birth")]
19.         [DataType(DataType.Date)]
20.         public DateTime DateofBirth { get; set; }
```

```
23.         [StringLength(255)]
24.         public string Address { get; set; }
25.     }
26. }
```

Step 3: Open HomeController or add HomeController if you don't have it. Add the action method Create in controller class.

```
01. using System;
02. using System.Collections.Generic;
03. using System.Diagnostics;
04. using System.Linq;
05. using System.Threading.Tasks;
06. using Microsoft.AspNetCore.Mvc;
07. using Microsoft.Extensions.Logging;
08. using ValidationMessageValidationSummaryTagHelper_Demo.Models;
09.
10. namespace ValidationMessageValidationSummaryTagHelper_Demo.Controllers
11. {
12.     public class HomeController : Controller
13.     {
14.         public IActionResult Index()
15.         {
16.             return View();
17.         }
18.
19.         public IActionResult Create()
20.         {
21.             return View();
22.         }
23.
24.         [HttpPost]
25.         public IActionResult Create(Student student)
26.         {
```

```

29.
30.     }
31.     return View();
32. }
33. }
34. }

```

Step 4 Right click on create action method and “Add” create view and write following code.

```

01. @model ValidationMessageValidationSummaryTagHelper_Demo.Models.Student
02. @{
03.     ViewData["Title"] = "Create";
04. }
05.
06. <div class="card">
07.     <div class="card-header">
08.         <h4>Student Details</h4>
09.     </div>
10.     <div class="card-body">
11.         <div asp-validation-summary="All"></div>
12.         <form asp-action="Create">
13.             <div class="form-group">
14.                 <label asp-for="Name" class="label-control"></label>
15.                 <input asp-for="Name" class="form-control" />
16.                 <span asp-validation-for="Name" class="text-danger"></span>
17.             </div>
18.             <div class="form-group">
19.                 <label asp-for="Gender" class="label-control"></label>
20.                 <select asp-for="Gender" class="custom-select">
21.                     <option value="">Choose Geneder</option>
22.                     <option value="Male">Male</option>
23.                     <option value="Female">Female</option>
24.                 </select>
25.                 <span asp-validation-for="Gender" class="text-danger"></span>
26.             </div>

```

```

29.         <input asp-for="DateofBirth" class="form-control" />
30.         <span asp-validation-for="DateofBirth" class="text-danger"></span>
31.     </div>
32.     <div class="form-group">
33.         <label asp-for="Address" class="label-control"></label>
34.         <textarea asp-for="Address" class="form-control"></textarea>
35.         <span asp-validation-for="Address" class="text-danger"></span>
36.     </div>
37.     <div>
38.         <button type="submit" class="btn btn-sm btn-primary rounded-0">Submit</button>
39.     </div>
40. </form>
41. </div>
42. </div>

```

The Validation Summary Tag Helper is used to display a summary of validation messages. The asp-validation-summary attribute value can be any of the following:

asp-validation-summary	Validation messages displayed
ValidationSummary.All	Property and model level
ValidationSummary.ModelOnly	Model
ValidationSummary.None	None

```
01. <div asp-validation-summary="All"></div>
```

Step 5: Add the following CSS in site.css file under wwwroot folder.

```
01. .field-validation-error {
02.     color: #e80c4d;
03.     font-weight: bold;
04. }
05. .field-validation-valid {
06.     display: none;
07. }
08. input.input-validation-error {
09.     border: 1px solid #e80c4d;
10. }
11. .validation-summary-errors {
12.     color: #e80c4d;
13.     font-weight: bold;
14.     font-size: 1.1em;
15. }
16. .validation-summary-valid {
17.     display: none;
18. }
```

Step 6: Build and run your application Ctrl+F5

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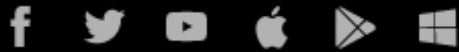


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