

## Entity Framework / Validation Model



## Razor View

```
@using MyApp.Models
```

```
@model Employee
```

```
@{
```

```
    Layout = "~/Views/_Base.cshtml";
```

```
    ViewBag.Title = "Employee Information";
```

```
}
```

```
<h2>Employee Information</h2>
```

```
<p>These are the details of @Model.FullName:</p>
```

```
@using (Html.BeginForm())
```

```
{
```

```
    @Html.AntiForgeryToken()
```

```
    @Html.ValidationSummary()
```

```
    <div>
```

```
        First Name: @Html.TextBoxFor(x => x.FirstName)
```

```
    </div>
```

```
    <div>
```

```
        Family Name: @Html.TextBoxFor(x => x.FamilyName)
```

```
    </div>
```

```
    <div>
```

```
        Birth Month: @Html.TextBoxFor(x => x.BirthMonth)
```

```
    </div>
```

```
    <div>
```

```
        IP Address: @Html.TextBoxFor(x => x.IpAddress)
```

```
    </div>
```

```
    <div>
```

```
        Full Time:
```

```
        @Html.DropDownListFor(
```

```
            x => x.IsFullTime,
```

```
            new [] {
```

```
                new SelectListItem {
```

```
                    Text = "Full Time",
```

```
                    Value = "true",
```

```
                    Selected = Model.IsFullTime
```

```
                },
```

```
                new SelectListItem {
```

```
                    Text = "Part Time",
```

```
                    Value = "false",
```

```
                    Selected = !Model.IsFullTime
```

```
            }
        )
    </div>
```

```
    </div>
```

```
    <input type="submit" value="Save Changes" />
```

Import namespace into Razor view

Declare a typed View

Use a master layout / template

Set a property of the ViewBag dynamic object

Write out a value

Create a HTML <form> tag

Generate a token to prevent Cross-Site-Forgery-Requests (CSFRs)

Show any validation errors

Create Text-boxes for Properties of the Model

Create a Drop-down list for IsFullTime property of the model

```
}
```

Razor comments

```
@* Don't show the messages section if there are no messages *@
```

```
@if (Model.Messages != null && Model.Messages.Count() > 0)
```

```
{
```

```
<p>Messages for @Model.FullName:</p>
```

```
<ul>
```

```
@foreach (var message in Model.Messages)
```

```
{
```

```
<li>@message.MessageId</li>
```

```
}
```

```
</ul>
```

```
}
```

If Statement

Loop

Manually create a URL to use in a link

```
<a href="@Url.Action("Index")">List All Employees</a>
```

```
@Html.ActionLink("List All Employees", "Index")
```

```
@Html.ActionLink("Go to Home", "Index", "Home")
```

```
@Html.ActionLink("View Employee 1", "Details", new { id = 1 }, null)
```

```
@Html.Raw("&nbsp;")
```

Create a link referring to the Index action of the same controller

Create a link referring to the Index action of the HomeController

Create a link referring to the Details action with route/model parameters

Output a string directly as raw HTML, without any escaping

```
@section Author {
```

```
    This page created by Ben.
```

```
}
```

Define a section (to use in a template)

## Template

```
<html>
```

```
<title>@ViewBag.Title</title>
```

```
<body>
```

```
<h1>My App</h1>
```

```
<div>
```

```
    @RenderBody()
```

```
</div>
```

```
<div>
```

```
    @if (IsSectionDefined("Author"))
```

```
    {
```

```
        @: Author Information:
```

```
        @RenderSection("Author")
```

```
    }
```

```
</div>
```

```
</body>
```

```
</html>
```

Render the main content of the file that is using this template

Switch back to plain HTML text when in a section of C# code

Render a section that was defined using @section

## Controller



**[HttpGet]**

```
public ActionResult Edit(int id)
{
    using (var context = new MyAppContext())
    {
        var emp = context.Employees
            .Include(x => x.Messages).Include(x => x.Department)
            .Where(x => x.EmployeeId == id).Single();
        return View(emp);
    }
}
```

Use this action for GET requests (i.e., to retrieve an empty/current form)

**[HttpPost]**

**[ValidateAntiForgeryToken]**

```
public ActionResult Edit(int id, Employee employee)
```

```
{
    if (ModelState.IsValid)
    {
        if (employee.IpAddress == "127.0.0.1")
        {
            ModelState.AddModelError("", "Do not use 127.0.0.1");
            return View(employee);
        }
        else
        {
            using (var context = new MyAppContext())
            {
                var oldEmployee = Context.Employees.Find(id);
                UpdateModel(oldEmployee);
                context.SaveChanges();
                return View("Details", employee);
            }
        }
    }
    else
    {
        return View(employee);
    }
}
}
```

Use this action when the user POSTs back a form (i.e., saves changes)

Check for the token created by @Html.AntiForgeryToken()

Use HTML Get/Post parameters to construct an Employee object

Were there any validation errors when creating the Employee object?

Add a custom validation error for @Html.ValidationSummary()

Use HTML Get/Post parameters to update the Employee object

Return the Details strongly typed view (Details.cshtml)