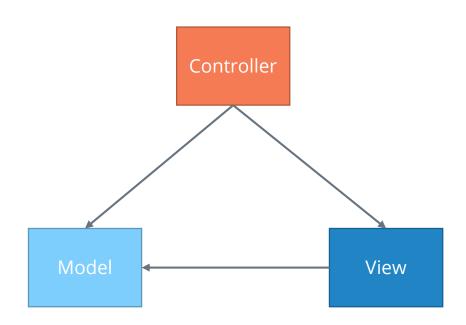


What is a view?





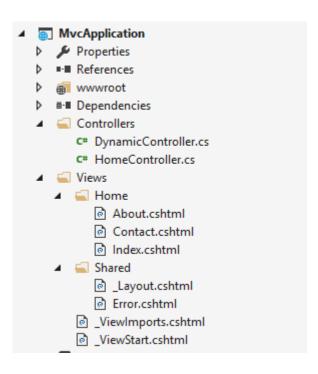
View Responsibilities

Render the view model

The end



MVC Solution Layout





View

```
@model ContactList.Features.Contacts.ContactViewModel[] 
@{
    ViewBag.Title = "Contacts";
@Html.Button("+", Url.Action("Add"))
@foreach (var contact in Model)
    <div class="contact-card"</pre>
         data-url="@Url.Action("Edit", new{ contact.Id})">
        @Html.Partial("ContactCard", contact)
    </div>
```

```
<a href="/Contacts/Add" role="button">+</a>
    <div class="contact-card" data-url="/Contacts/Edit/2a1d924e-6</pre>
        <div class="panel panel-default">
    <div class="panel-heading">
        <h3 class="panel-title">Johnson, Abe</h3>
    </div>
    <div class="panel-body">
        <div>
            <label for="Email">Email</label>:
            abe.johnson@example.com
        </div>
        <div>
            <label for="PhoneNumber">PhoneNumber</label>:
            555-123-0004
        </div>
    </div>
```

```
public IActionResult Create()
{
    return View();
}
```



```
@model ContactList.Features.Contacts.AddContactForm
@{
    ViewBag.Title = "Add Contact";
<h2>Add Contact</h2>
@using (Html.BeginForm())
    @Html.ValidationSummary()
    @Html.Input(x => x.FirstName)
    @Html.Input(x => x.LastName)
    @Html.Input(x => x.Email)
    @Html.Input(x => x.PhoneNumber)
    <div>
        @Html.SaveButton()
        @Html.CancelButton(Url.Action("Index"))
    </div>
```

```
<h2>Add Contact</h2>
▼ <form action="/Contacts/Add" method="post">
  <div class="validation-summary-valid" data-valmsg-summary="true">...</div>
 ▼ <div class="form-group">
     <label for="FirstName">First Name</label>
     <input class="text-box single-line form-control" data-val="true" data-val-</pre>
     required="The First Name field is required." id="FirstName" name=
     "FirstName" type="text" value>
   </div>
  <div class="form-group">...</div>
  <div class="form-group">...</div>
 <div class="form-group">...</div>
 ▼ <div>
     <button type="submit" class="btn btn-primary">Save</button>
     <a href="/Contacts" role="button" class="btn btn-default">Cancel</a>
   </div>
 </form>
```

Review

- Incoming requests become action method calls in a controller.
- Inputs from the browser are bound to the method's inputs by naming convention.
- The returned object describes the HTTP response: render a view, redirect, etc.
- View files are located by action method name.



Built-in HTML Shorthand

```
@model ContactList.Features.Contacts.EditContactForm
@Html.DisplayFor(x => x.FirstName) //Display the value.
@using (Html.BeginForm())
    @Html.ValidationSummary() //Show error messages.
    @Html.HiddenFor(x => x.Id) //Hidden input field.
    @Html.LabelFor(x => x.FirstName) //User-facing label.
    @Html.EditorFor(x => x.FirstName) //Textbox, etc.
    //etc...
    <button type="submit">Save</button>
```



Keep Views Dumb!

- Views are the hardest thing to test, and the easiest thing to get out of hand.
- Minimize conditional logic in a View.
- Minimize nested looping in a View.
- Minimize repetition in a View.
- Be RUTHLESS about keeping Views simple!



L Infrastricture Kecs: - Laravel + Backbone Create Fixtures for testing Views in **MVC** Core

_ViewStart.cshtml

```
@{
   Layout = "_Layout";
}
```

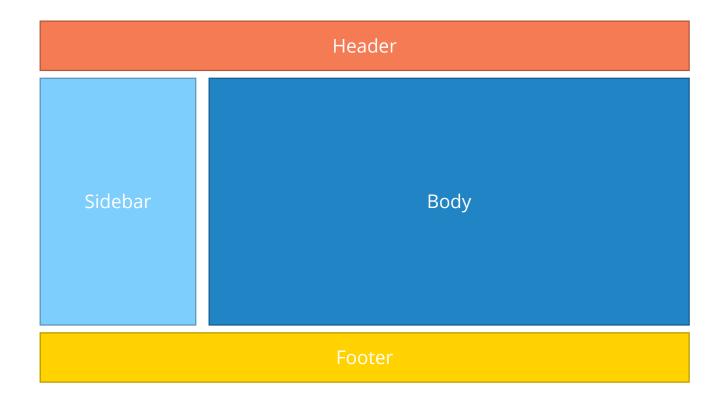


_ViewImports.cshtml

```
@using MvcApplication
@using MvcApplication.Models
@using MvcApplication.Models.AccountViewModels
@using MvcApplication.Models.ManageViewModels
@using Microsoft.AspNetCore.Identity
@addTagHelper *, Microsoft.AspNetCore.Mvc.TagHelpers
```



Layouts





Layout body



Layout sections

```
@RenderSection("scripts", required: false)
</body>
</html>
```



Layout sections



E Infrastructure Recs: - Laravel + Backbone Create Fixtures for testing Tag Helpers

What are tag helpers?

- A new way to build HTML snippets
- Supplement HTML Helpers
- HTML-friendly development experience
- Better IntelliSense than HTML Helpers
- I'm....not a fan



HTML Helper with expressions

```
@Html.LabelFor(m => m.Email,
new { @class = "col-md-2 control-label" })
```



Tag Helper

```
<label asp-for="Email"
    class="col-md-2 control-label">
</label>
```



HTML Helper input

```
@Html.EditorFor(m => m.Password,
new {@class="form-control"})
```



Tag Helper form input

```
<input asp-for="Password"
class="form-control"/>
```



HTML Helper form

```
@using (Html.BeginForm("Register", "Account",
null, FormMethod.Post))
{
```



Tag Helper form

```
<form asp-controller="Account"
    asp-action="Register"
    asp-route-returnurl="@ViewData["ReturnUrl"]"
    method="post" class="form-horizontal">
```



Tag Helper prefixes

@tagHelperPrefix "asp:"



Tag Helper prefixes



```
@using (Html.BeginForm("Register", "Account", null,
                FormMethod.Post, null, new { @class = "form-horizontal" }))
{
    <h4>Create a new account.</h4>
    <hr/>
    @Html.ValidationSummary(null, new {@class="text-danger"})
    <div class="form-group">
        @Html.LabelFor(m => m.Email, new {@class= "col-md-2 control-label" })
        <div class="col-md-10">
            @Html.EditorFor(m => m.Email, new { @class="form-control" })
            @Html.ValidationMessageFor(m => m.Email, null, new {@class="text-danger"})
        </div>
    </div>
    <div class="form-group">
        @Html.LabelFor(m => m.Password, new {@class= "col-md-2 control-label" })
        <div class="col-md-10">
            @Html.EditorFor(m => m.Password, new { @class="form-control" })
            MHtml.ValidationMessageFor(m => m.Password, null, new {@class="text-danger"})
        </div>
    </div>
    <div class="form-group">
        @Html.LabelFor(m => m.ConfirmPassword, new {@class = "col-md-2 control-label"})
        <div class="col-md-10">
            @Html.EditorFor(m => m.ConfirmPassword, new {@class = "form-control"})
            @Html.ValidationMessageFor(m => m.ConfirmPassword, null, new {@class = "text-danger"})
        </div>
    </div>
```

Headspring

```
<form asp-controller="Account" asp-action="Register"</pre>
      asp-route-returnurl="@ViewData["ReturnUrl"]"
     method="post" class="form-horizontal">
    <h4>Create a new account.</h4>
    <hr />
    <div asp-validation-summary="All" class="text-danger"></div>
    <div class="form-group">
        <label asp-for="Email" class="col-md-2 control-label"></label>
        <div class="col-md-10">
            <input asp-for="Email" class="form-control" />
            <span asp-validation-for="Email" class="text-danger"></span>
        </div>
    </div>
    <div class="form-group">
        <label asp-for="Password" class="col-md-2 control-label"></label>
       <div class="col-md-10">
            <input asp-for="Password" class="form-control" />
            <span asp-validation-for="Password" class="text-danger"></span>
        </div>
    </div>
   <div class="form-group">
        <label asp-for="ConfirmPassword" class="col-md-2 control-label"></label>
        <div class="col-md-10">
            <input asp-for="ConfirmPassword" class="form-control" />
            <span asp-validation-for="ConfirmPassword" class="text-danger"></span>
        </div>
   </div>
```

Headspring

Built-in HTML Helpers

- Form helpers
- Validation helpers
- Link helpers
- Security helpers



Built-in Tag Helpers

- Form
- Input
- Textarea
- Label
- Validation
- Select

