Assembling the Building Blocks



Matt Honeycutt

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Overview



ASP.NET MVC to JavaScript

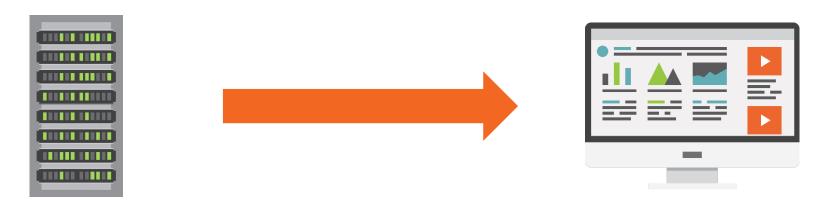
Razor to JavaScript

URLs with strong-typing!

Razor-Powered AngularJS templates!

This is the foundation!

Passing Data From MVC Actions to JavaScript



Server-side C#....

Client-side JavaScript!

Passing Data From MVC Actions to JavaScript

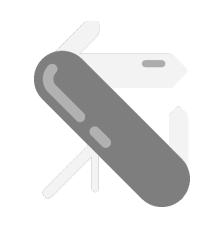
```
public class CustomerViewModel
{
  public int Id { get; set; }
  public string Name { get; set; }
  public string WorkEmail { get; set; }
}
```



```
{
id: 5,
name: 'john smith',
workEmail: 'test@user.com'
}
```

Passing Data From MVC Actions to JavaScript

```
public class CustomerViewModel
{
  public int Id { get; set; }
  public string Name { get; set; }
  public string WorkEmail { get; set; }
}
```



Standard JsonResult

```
{
    Id: 5,
    Name: 'john smith',
    WorkEmail: 'test@user.com'
}
```

Why Not Use Web API?

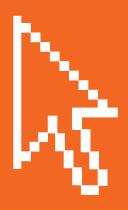
We don't need it

We aren't really building an API...

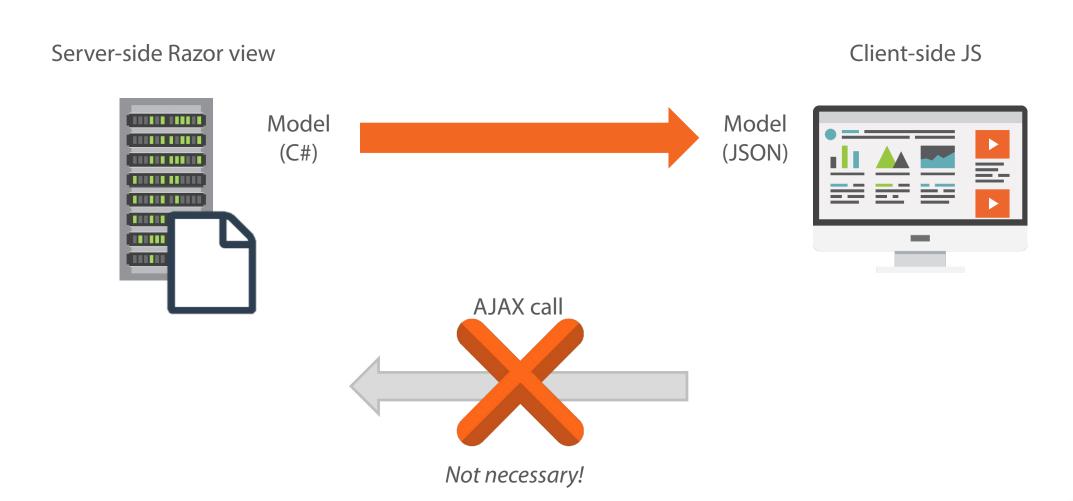
We just need JSON!

Keep it simple!

Building A Better JSON Result



Passing Objects From Razor Views to JavaScript



Html.JsonFor

Server-side: Razor CSHTML

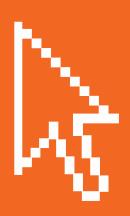
```
<script>
window.app.constant('model',
@Html.JsonFor(Model));
</script>
```



Client-side: HTML and JavaScript

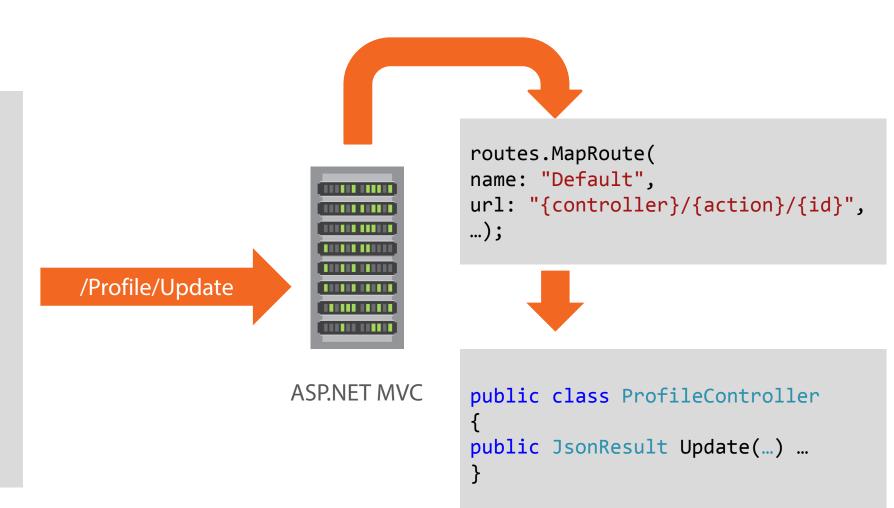
```
<script>
window.app.constant('model',
"fullName": "Matt Honeycutt",
"emailAddress":
"matt.honeycutt@me.com"
});
</script>
```

Passing Data From Razor to AngularJS



The Problem with URLs...

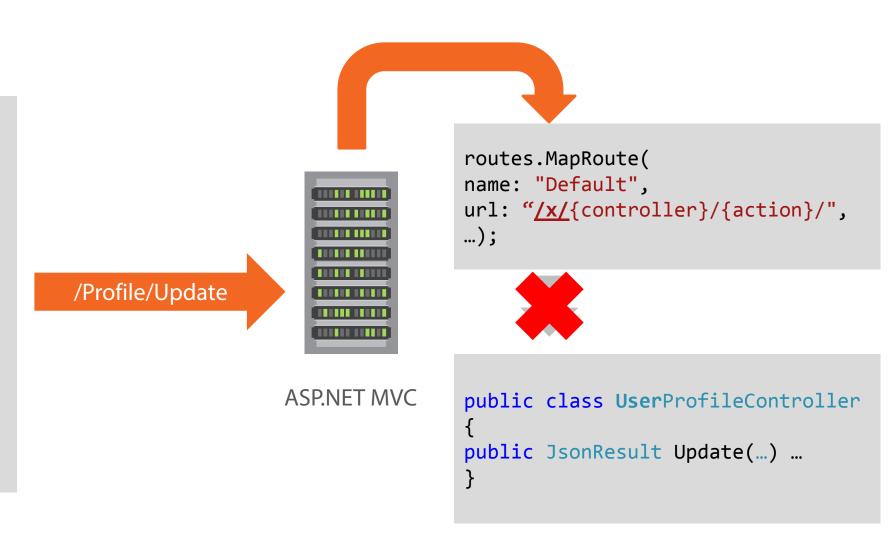
```
EditProfileController.js
```



The Problem with URLs...

```
EditProfileController.js
```

```
$http.post(
    '/Profile/Update',
    vm.profile)
.success(function() {
    vm.success = true;
})
```



Passing Strongly-Typed URLs to AngularJS



Using Razor in AngularJS Templates

Model metadata

Strongly-typed binding

Angular-powered templates

.NET's Type System

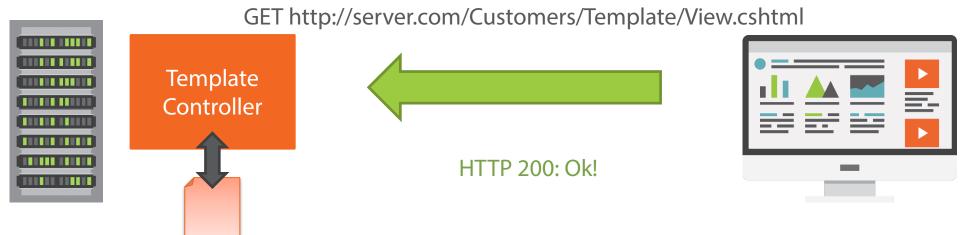
HTML5 validation attributes

Strongly-typed forms

Data annoations

Accessing Razor From Client-Side Code





Accessing Razor From Client-Side Code

- Feature folder convention
- Each folder relates to one feature
- We can leverage this convention!



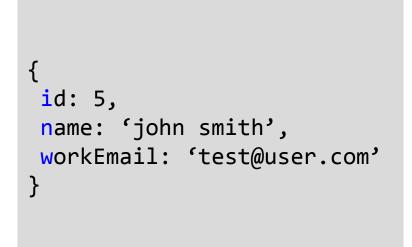
Using Razor in AngularJS Templates



What We've Accomplished

```
public class CustomerViewModel
{
  public int Id { get; set; }
  public string Name { get; set; }
  public string WorkEmail { get; set; }
}
```





What We've Accomplished

Server-side: Razor CSHTML

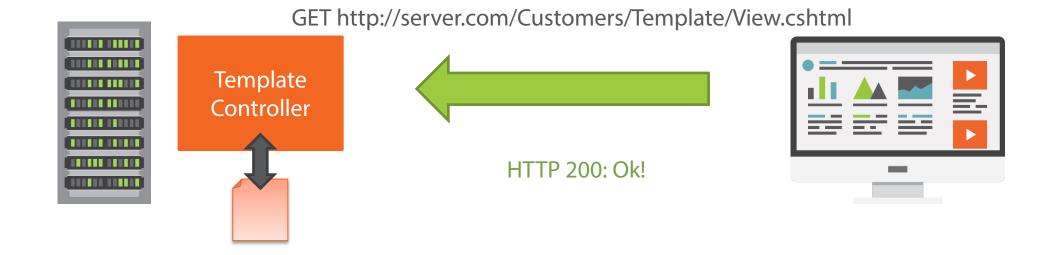
```
<script>
window.app.constant('model',
@Html.JsonFor(Model));
</script>
```



Client-side: HTML and JavaScript

```
<script>
window.app.constant('model',
"fullName": "Matt Honeycutt",
"emailAddress":
"matt.honeycutt@me.com"
});
</script>
```

What We've Accomplished



Up Next...

Strongly-typed AngularJS bindings!

