



Building Modern Websites in ASP.NET Web Forms

Presented by **Michael Kennedy**
[@mkennedy](#)



Hosted by **Llewellyn Falco**
[@isidore_us](#)



Twitter Hashtag for this talk **#dmscreencast**



About DevelopMentor



DEVELOPMENTOR

DEVELOPING PEOPLE WHO DEVELOP SOFTWARE

DevelopMentor provides solutions for all professionals involved in the lifecycle of software projects via our consulting, mentoring & learning services.

We're committed to ...

“Developing People Who Develop Software”



About our Presenters

Michael Kennedy



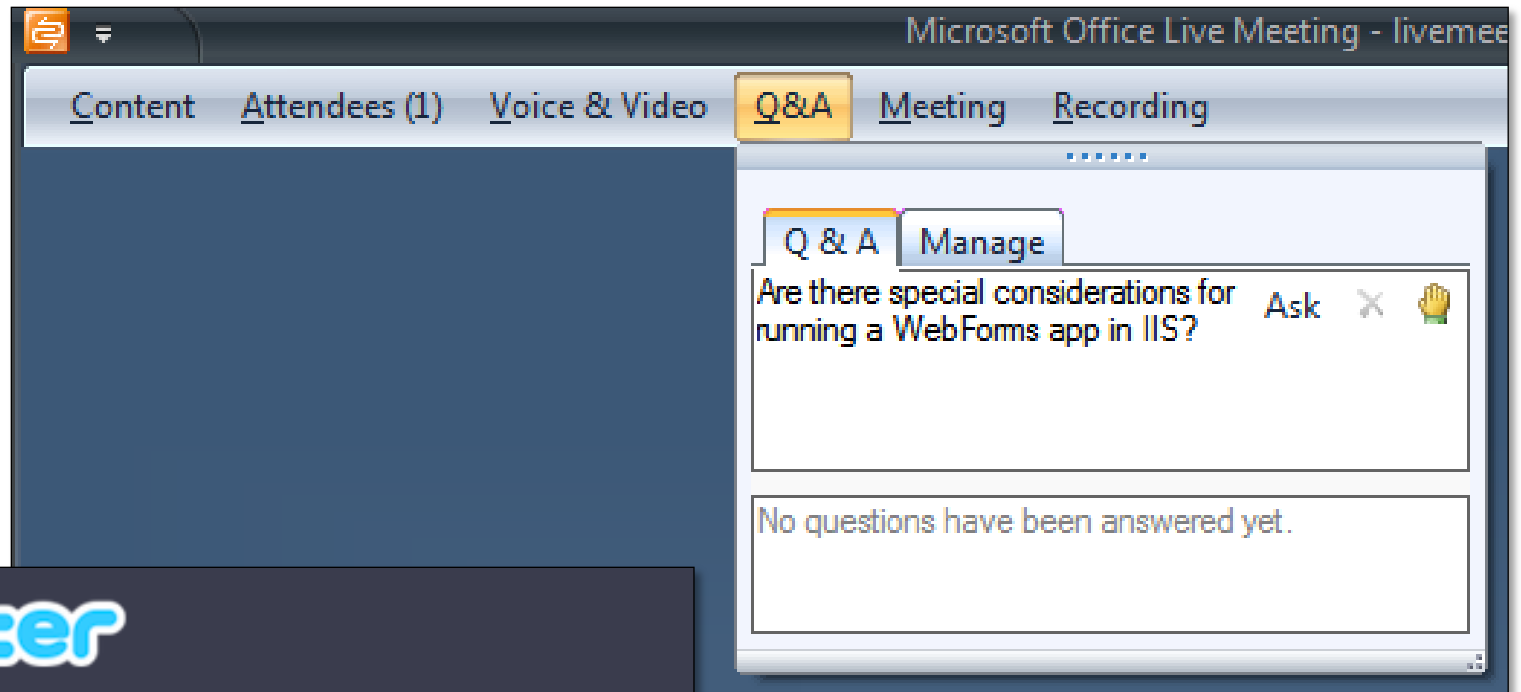
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- **.NET, Agile, and TDD expert**
- **Currently Teaching:**
 - Code Smarter with Design Patterns
 - Team Development with VSTS
 - Essential .NET
 - What's New in .NET 3/3.5/4
 - Windows Azure Development
 - Guerrilla .NET

Llewellyn Falco



- **Author: TDD course**
- **Currently Teaching:**
 - TDD for C# Developers
- **Inventor: ApprovalTests**
<http://approvaltests.com/>

Be Part of the Conversation – Asking Questions



twitter

What's happening?

Talking ASP.NET WebForms + Routing with @mkennedy right now [#dmscreencast http://bit.ly/4CKHOG](http://bit.ly/4CKHOG)



WHO ARE YOU?

<http://lookatthiswith.me/watch/ohz>

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What's wrong with WebForms anyway?

Problem 1

- Ugly URLs:

<http://peopleocity.com/ListAll.aspx?usr=mkenedy&p=Welcome%20To%20The%20City>



a user

What's wrong with WebForms anyway?

Problem 2

- **Testability**

There really isn't much of an option here beyond the MVP pattern for testing WebForms apps.



What's wrong with WebForms anyway?

Problem 3

- “Polluted” HTML



```
http://localhost:50843/lat... x
view-source:http://localhost:50843/latest

1
2
3 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
4
5 <html xmlns="http://www.w3.org/1999/xhtml" >
6 <head><title>
7     Peopleocity - [latest]
8 </title>
9 </head>
10 <body style="margin: 0px; font-family: Helvetica, sans-serif;
11     <form name="aspnetForm" method="post" action="latest" id="
12 <div>
13 <input type="hidden" name="__EVENTTARGET" id="__EVENTTARGET" v
14 <input type="hidden" name="__EVENTARGUMENT" id="__EVENTARGUMEN
15 <input type="hidden" name="__VIEWSTATE" id="__VIEWSTATE"
    value="/wEPDwUJmMjM1NTE1MTQ0D2QWAmYPZBYCAgMPZBYE2g8WAH4HVmlzaWJ
    4dAUCbWtkZAIJD2QWAmYPZBYCAgMPDxYCHwIFiCM8dHI+Cjx0ZD4KPGZvbnQgI
    2xvcj0nZGFya2dyYXknPjIvMTcvMjAwOSA4OjM2IEFNPC9mb250PjwvdGQ+Cjx
    CL29mZmljZS9jc2hhcnBfZXhjZWwuYXNweAo8L3RkPgo8L3RyPgo8dHI+Cjx0Z
    icgY29sb3I9J2RhcmtncmF5Jz4yLzE3LzIwMDkgODozNSBBTtwvZm9udD48L3R
    sb3I9J311bGxvdyc+TW1jaGF1bCBLZW5uZWR5PC9mb250Pjxicj4KPGZvbnQgc
    gpodHRwOi8vd3d3LmNvZGVwcm9qZWN0LmNvbS9LQl9vZmZpY2UvY3NoYXJwX2V
    1JmFtcDtub2l2ZT0zJmFtcDtzJmFtcDtzJmFtcDtzJmFtcDtzJmFtcDtzJmFtcD
    Gxvdyc+TW1jaGF1bCBLZW5uZWR5PC9mb250Pjxicj4KPGZvbnQgc216ZT0nLTI
    gZm9yIHdvcmtpbmcgd210aCBFeGNlbDoNCmh0dHA6Ly93d3cuY29kZXByb2p1Y
    jm50TcmYW1wO2RmPTkwJmFtcDttcHA9MjUmYw1wO25vaXN1PTMmYw1wO3NvLi4
    udD48YnI+Cjxmb250IHNPemU9Jy0yJyBjb2xvcj0nZGFya2dyYXknPjIvMTYvM
    Gx5IGxpa2UgdG8gc2VlIG10IGFnYW1uLCBjIGhvcGUgd2UgZ2V0IHRvIHh1ZSB
    5ZWxsbc3nP1RhbWFyYTwvZm9udD48YnI+Cjxmb250IHNPemU9Jy0yJyBjb2xvc
    yBzbyAyIH11YXJzIGFnby4uLmMnbW9uIGd1eXMGsSFMgTXVzaWNhbCAzIQo8L3R
    0IHNPemU9Jy0yJyBjb2xvcj0nZGFya2dyYXknPjIvMTYvMjAwOSA4OjMzIEFNPC
    2xvcj0neWVsbG93Jz5Mb3UgQy48L2ZvbnQ+PGJyPgo8Zm9udCBzaXp1PSctMi
    0J3MgZG8gSFMgTXVzaWNhbCEKPC90ZD4KPC90cj4KPHRyPgo8dGQ+Cjxmb250I
    mtncmF5Jz4yLzE2LzIwMDkgNzoxNyBQTTwvZm9udD48L3RkPgo8dGQ+CkhpZ2g
    0ICBjb2xvcj0neWVsbG93Jz5SdXNzIFcuPC9mb250Pjxicj4KPGZvbnQgc216Z
    WdoIFNjaG9vbCBnXNpY2FsCjwvdGQ+CjwvdHI+Cjx0cj4KPHRkPgo8Zm9udCA
    ya2dyYXknPjIvMTYvMjAwOSA4OjEzIEFNPC9mb250PjwvdGQ+Cjx0ZD4KUG9rJ
```



Why Routing?

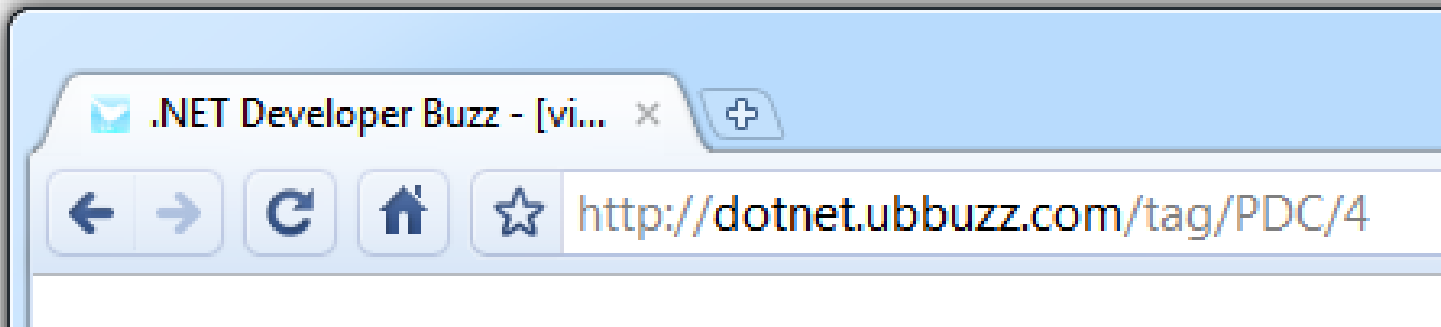
- **Beautiful Urls**

<http://peoplecity.com/posts/mkennedy/Welcome-To-The-City>

instead of

<http://peoplecity.com/ListAll.aspx?usr=mkennedy&p=Welcome%20To%20The%20City>





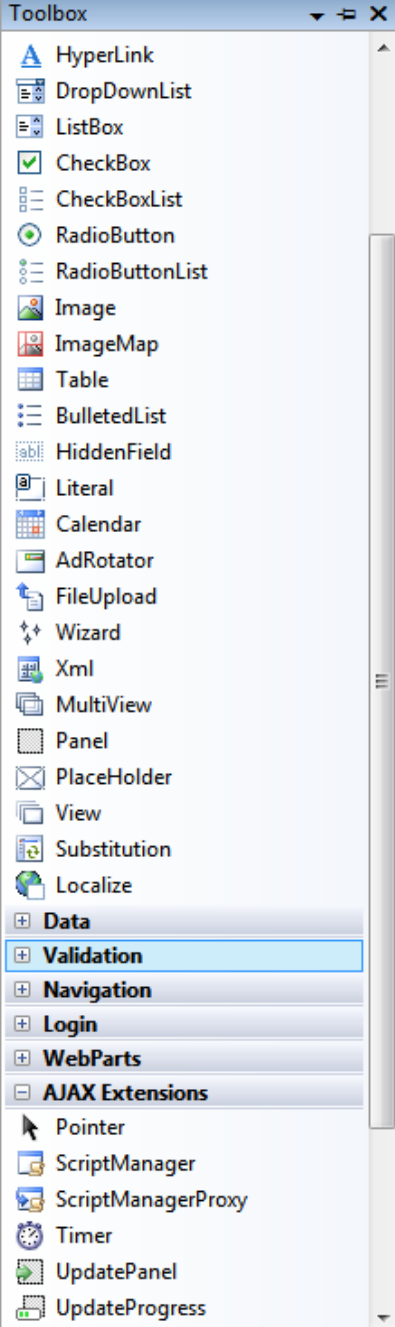
Embrace the URI (and REST)

```
routes.Add( "TagViewRouteWithPages",  
            new Route(  
                "tag/{tagId}/{pageNo}",  
                new CustomRoute( "~/ViewTag.aspx" )  
            ) );
```

Why WebForms + Routing over MVC?

It's not just about the Uri, with WebForms, we also get

- Rich controls
- AJAX ScriptManager and UpdatePanel
- Automatic state management (via ViewState)
- Eventing via Post-backs



Demo 1: Adding Routing to WebForms (.NET 3.5)



Keys to Adding Routing to WebForms

1.

```
public class CustomRoute : IHttpHandler
{
    public IHttpHandler GetHttpHandler(RequestContext requestContext)
    {
        foreach (var aux in requestContext.RouteData.Values)
        {
            HttpContext.Current.Items[aux.Key] = aux.Value;
        }

        return BuildManager.CreateInstanceFromVirtualPath(
            VirtualPath, typeof (Page)) as IHttpHandler;
    }
}
```

2.

```
RouteTable.Routes.Add( "TagViewRouteWithPages",
    new Route(
        "tag/{tagId}/{pageNo}",
        new CustomRoute( "~/ViewTag.aspx" )
    ) );
```



How about some questions?



Demo 2: Routing and WebForms (.NET 4.0)



How about some questions?



Demo 3: Routing and WebForms in IIS (Production)



How about some questions?



Can You Spot the WebForms in the Wild?



<http://lookatthiswith.me/watch/ohz>

<http://bit.ly/6FCRO4>

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Contact us

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Wrap up questions and comments

