



UNIT 3

# COMPONENTS

# OVER- VIEW



- MX Web parts are a set of re-usable components which can be placed directly into standard or web part .NET website pages.
- .NET Framework 4.5.2, ASP.NET, C#, Payflow Gateway
- The integration with Microsoft Dynamics CRM is achieved using the new Microsoft xRM Software Development Kit (SDK). This is a new SDK that supports UX 8.1 and 8.2.
- Deployment of MX components is entirely within the framework of the CMS, and MX components share (as much as possible) the following aspects of the site:
  - Authentication
  - Authorization
  - Web User Control Deployment (in DNN, the library of Desktop Modules)
  - Configuration and Styling



# OVER- VIEW

## USER INTERFACE



- Based on [Bootstrap framework](#)
- [FontAwesome](#) as icon library
- HTML 5, CSS 3, JavaScript, JQuery
- Responsive design to respond to the needs of the users and the devices they're using
- MX uses the Bootstrap 12 column grid system
- MX also uses Bootstrap components as well as classes

[See documentation](#)



# STRUC- TURE



- All the components are structured in the same way, grouped by modules
- Every component uses a Base class that automates the process of including css classes – the classes are not in the UI markup.
- This structure and methodology is key for the proper identification of the different UI elements to support the styling process
- We use a wrapper CSS class to encapsulate the entire component that is placed directly to the website page
- There is an mx class that is a prefix to allow you to style bootstrap classes just for mx components, if the site does not already use Bootstrap.

# STRUC- TURE



## MX COMPONENT

mx mx-wrappper mx-<module>-<component>-wrapper

### ADMIN TOOLBAR

mx-admintoolbar-wrapper

### CONFIG TOOLBAR

mx-configtoolbar-wrapper

### TITLE

mx-title-wrapper

### SUBTITLE

mx-subtitle-wrapper

### MESSAGE

mx-message-wrapper

### INSTRUCTIONS

mx-instructions-wrapper

## CONTENT

### VIEW MODE

mx-modeview-wrapper

### EDIT MODE

mx-modeedit-wrapper

# STRUC- TURE

## ADDITIONAL CASES



- There are sub-components that are not placed directly into pages, they are included within the MX components:

`mx mx-sub-wrapper mx-<module>-<component>-sub-wrapper`

- Additional elements that may be included in a component:

Lookup

`mx-lookup-wrapper`

Pager

`mx-pager-wrapper`

Radius Search

`mx-radiussearch-wrapper`

Error Report

`mx-errorreport-sub-wrapper`



# CSS NAMING



- We assign different CSS classes for each UI element taking into account 2 levels:
  - **General:** All the same kind of element (form-control)
  - **Specific:** Identify the instance, acts as an ID (mx-username-textbox) instead of the #control ID. #control ID can change, but these tags do not.
- Stylesheets:
  - mxcore.css
  - mxcore-override.css (Customer customization)



In most of the cases, MX components css customization wouldn't be necessary because the use of Bootstrap, the styling should be at site level, flowing down to the components, however, we have this option to customize specific component elements when necessary

# CSS NAMING



Element Name	Generic Class	Specific Class	Comments
Panel		mx-{0}-panel	include btn-group (Special Case)
TextBox	form-control	mx-{0}-textbox	
DropDownList	form-control	mx-{0}-dropdownlist	
CheckBox	form-check	mx-{0}-checkbox	flow down class to input and label elements (Special Case)
RadioButton	form-check	mx-{0}-radiobutton	same as CheckBox
Button	btn, btn-primary	mx-{0}-button	Default = btn-primary. Automatically replace btn-primary by btn-secondary when id contains: (edit, change, cancel, remove, clear, export, sort or print) and blank when name contains: (attachment) (Special Case). Set outline-primary for unselected buttons in ButtonGroup
LinkButton (<a>)		mx-{0}-hyperlink	
HyperLink (<a>)		mx-{0}-hyperlink	
Label		mx-{0}-span	or mx-{0}-label (Special Case)
Image		mx-{0}-image	
RadioButtonList	mx-radiobuttonlist	mx-{0}-radiobuttonlist	
CheckBoxList	mx-checkboxlist	mx-{0}-checkboxlist	



# CSS NAMING



Element Name	Generic Class	Specific Class	Comments
WindowManager	mx-windowmanager		
Grid	mx-grid, table		modify styling attributes and include: table-hover, table-primary and table-secondary for RenderGroupHeaderItemStyle (Special Case)
TabStrip	mx-tabstrip		
MultiPage	mx-multipage		
PanelBar	mx-panelbar		
NumericTextBox		mx-{0}-textbox	
ComboBox	mx-combobox		flow down class to dropdown, input and label elements (Special Case)
DatePicker	mx-datepicker		
Captcha	mx-captcha		add form-control class to the TextBox (Special Case)
BinaryImage	mx-image		
AsyncUpload	mx-upload		

# CSS NAMING

Element Name	Generic Class	Specific Class	Comments
Editor	mx-editor		
ListBox	mx-listbox		
TreeView	mx-treeview		
Scheduler	mx-scheduler		
AutoCompleteBox	mx-autocompletebox		
Row	row		change generic class when using within a form: form-group + [form-inline] (no cols) otherwise form-row (Special Case)
Col	col		change default class prefix (col), don't set generic class and add form-group if within a form (Special Case)










# CSS TEMPLATES

## FONTAWESOME ICON CLASSES



- We use FontAwesome icons in two ways – as labels and as buttons. We use some icons to substitute for long label text, and others (or the same ones) to substitute for action buttons.

 410-934-8381 Ext. 55  
 410-939-1924  
 earl@dirtyshoes.com  
 <http://www.google.com>  
 Orioles/  
 Orioles  
 company/baltimore-orioles

 See Details



```
<i class="fas fa-phone">
```

```
<i class="fas fa-fax">
```

```
<i class="far fa-envelope">
```

```
<i class="fas fa-globe">
```

```
<i class="fab fa-facebook-f">
```

```
<i class="fab fa-twitter ">
```

```
<i class="fab fa-linkedin-in">
```

```
<i class="fas fa-arrow-circle-down">
```

```
<i class="fas fa-map-marker-alt">
```

```
<i class="far fa-envelope">
```

# CSS NAMING

DEMO




# MX FIND TEMPLATES

NEW STANDARDIZATION



- MX Find Templates and Control Templates have been redesigned, re-coded, renamed and standardized.
- The following templates are installed as part of the template site and all 8.2 installations:
- The main goal is that every new template should be created in the same structure.

[See documentation](#)



- AccountDetails.ascx
- AccountDirectory.ascx
- AccountDirectorybyAddress.ascx
- Benefits.ascx
- CalendarEvents.ascx
- ChapterDetails.ascx
- ChapterOfficer.ascx
- CommitteeDetails.ascx
- CommitteeListing.ascx
- CommitteeMember.ascx
- ContactDetails.ascx
- ContactDirectory.ascx
- ContactDirectorybyAddress.ascx
- ContributionDetails.ascx
- Packages.ascx
- ProductCategory.ascx
- ProductDetails.ascx
- ProductRelated.ascx
- ProductThumbnail.ascx
- PromotionalPackage.ascx
- ShowHide-HideShow.ascx
- SponsorshipPackage.ascx
- SubscriptionThumbnail.ascx

# MX FIND TEMPLATES

## MX FIND CONTAINERS



- The cards container can be displayed in different options:
  - Card Grids (columns and rows)
  - Card Group (Equal width and height - attached)
  - Card Decks (Equal width and height - not attached)
  - Card Columns (Masonry Style)
  - Card Lists (Full Width)
- The container type is not defined at the card level (Template file), it is part of the MX Find configuration
- Templates named “... Details” are designed for display in Card Lists, while “... Directory” and “... Thumbnail” templates are designed for display in Card Decks.
- All the containers are responsive. In core Bootstrap they are not, however we made the necessary changes to achieve it in MX.



# MX FIND TEMPLATES

BOOTSTRAP CARD DECK LAYOUT



Image on top:  
<img class="card-img-top  
mx-image-contact" ...>

Card Body:  
\_<div class="card-body">

Card Title:  
<h5 class="card-title">

Card Subtitle (2 types):  
<h6 class="card-subtitle  
text-muted">

<p class="card-  
text"><strong>

Card Text:  
<p class="card-text">

Expand to see Details:  
\_<div class="collapse"...>

Card Footer with icons:  
<div class="card-footer...>



**Denzel Washington**  
Boys & Girls Clubs of America

1200 Main St  
Chicago, IL 60609  
US  
123-456-7890

[See Details](#)



# MX FIND TEMPLATES

## CARD DECK CLASSES



```
<div class="card">
  <a href="<## Eval("mx-navigationurl") %>" class="<## IIf(Eval("pa_profileimage") = "", "d
   ""
  <div class="card-body">
    <h5 class="card-title"><a href="<## Eval("mx-navigationurl") %>"><## Eval("pa_labelna
    <h6 class="card-subtitle text-muted"><## Eval("jobtitle") %></h6>
    <p class="card-text">
      <strong><## Eval("parentcustomerid") %></strong>
    </p>
    <p class="card-text">
      <## Eval("address1_composite") %><br>
      <## Eval("telephone1") %>
    </p>
    <p class="card-text" <## IIf(Eval("description") = "", "d-none", "") %>">
      <a data-toggle="collapse" href="#collapse_<## Me.ClientID %>" role="button" aria-
    </p>
    <div class="collapse" id="collapse_<## Me.ClientID %>">
      <p class="card-text">
        <## Eval("description") %>
      </p>
    </div>
    <p class="card-text text-info font-weight-bold" <## IIf(Eval("distance") = "", "d-none
      <## Eval("distance") %> Miles away
    </p>
  </div>
  <div class="card-footer" <## IIf(Eval("mx-locateinmapurl") = "" And Eval("emailaddress1") :
    <a href="<## Eval("mx-locateinmapurl") %>" target="_blank" class="btn btn-outline-se
    <a href="mailto:<## Eval("emailaddress1") %>" class="btn btn-outline-secondary btn-sm
  </div>
</div>
```



# MX FIND TEMPLATES

MX FIND NEW VARIABLES



## MX FIND CONFIGURATION SETTINGS ARE NOW TEMPLATE DATA ELEMENTS

A screenshot of the 'MX Find - Configuration' window. It shows two rows of configuration settings. The first row is for 'a\_4998240ce3aadf11b790005056834d9b-websiteurl' with a dropdown menu, a checkbox, another dropdown, and a text field containing 'Website (Member)'. The second row is for 'a\_4998240ce3aadf11b790005056834d9b-description' with similar controls and a text field containing 'Description (Member)'. Below these, there are settings for 'Result display type' (set to 'Template List'), 'Item template' (set to 'CommitteeMember.ascx'), and 'Item layout option' (set to 'Card Decks (equal width and height - not attached)'). At the bottom, there are two highlighted yellow boxes: 'Navigation URL' with the value '/Directories/Members/Member-Details?contactid={pa\_contactid\_value}' and '(mx-navigationurl)', and 'Images path' with the value '/Portals/0/Images/Contact' and '(mx-imagespath)'.

MX Find - Configuration

a\_4998240ce3aadf11b790005056834d9b-websiteurl [dropdown] [checkbox] [dropdown] [text: Website (Member)]

a\_4998240ce3aadf11b790005056834d9b-description [dropdown] [checkbox] [dropdown] [text: Description (Member)]

Result display type: [Template List] Item template: [CommitteeMember.ascx]

Item layout option: [Card Decks (equal width and height - not attached)]

Navigation URL: [/Directories/Members/Member-Details?contactid={pa\_contactid\_value}] (mx-navigationurl)

Images path: [/Portals/0/Images/Contact] (mx-imagespath)

- The navigation URL that is defined in the MX Find instance configuration can now be used as a data element in the template – the new variable name “**mx-navigationurl**”.
- Navigation URL can now include parameters other than {0} recordID, e.g. **From pa\_committeemember, append contactid={pa\_contactid\_value}**
- mx-imagespath allows you to override the web.config setting of one path for all images. So instead of hardcoding path into the template, replace with the variable **mx-imagespath**.

# MX FIND TEMPLATES

## MX FIND NEW VARIABLES



Navigation URL: `/Directories/Members/Member-Details?contactid={pa_contactid_value}` (mx-navigationurl)  
 Images path: `/Portals/0/Images/Contact` (mx-imagespath)

- The way to use the Images path variable in the template is to concatenate it with the image variable:

```
 "", Eval("mx-imagespath") + Eval("pa_profileimage"), "")} %>"
```

- The way to use the navigation url variable in the template is by itself within the <a href> tag. Note the template does not include a parameter, since that is part of the mx-navigationurl variable itself.

```
<div class="card-body">
<h5 class="card-title"><a href="{%# Eval("mx-navigationurl") %}"><# Eval("pa_labelname") %></a></h5>
<h6 class="card-subtitle text-muted"><# Eval("jobtitle") %></h6>
<p class="card-text">
<strong><# Eval("parentcustomerid") %></strong>
</p>
```



# MX FIND TEMPLATES

## ADDRESS HANDLING



## ADDRESSES WITHOUT JAVASCRIPT

- Instead of concatenating address parts using logic, we now use the UX 8 composite address:

```
<p class="card-text">
  <%=# Eval("address_composite") %><br>
  <%=# Eval("telephone1") %>
</p>
```

- We now use a variable generated by a predefined function called “Locate in Map URL”:

```
<div class="card-footer <%=# If(Eval("mx-locateinmapurl") = "" And Eval("emailaddress1") = "", "d-none", "") %>">
  <a href="<%=# Eval("mx-locateinmapurl") %>" target="_blank"
    class="btn btn-outline-secondary btn-sm <%=# If(Eval("mx-locateinmapurl") = "", "d-none", "") %>">
    <i class="fas fa-map-marker-alt"></i>
  </a>
```

# MX FIND TEMPLATES

MX FIND - HOW TO INCLUDE  
DYNAMIC CONTENT DEMO



# AUTO TEMPLATE

MX FIND - AUTO TEMPLATE



## My Current Membership Status

Gen. Earl Isadoor Weaver, Jr.

Contact Number: 9000968

Currently an Active Member?: No Membership Type: Non-Member

Chapter/Region: Virginia State Chapter

# AUTO TEMPLATE

MX FIND - AUTO TEMPLATE



- It's a new, simple and fast way to show data into a card without the need to create a template file in code.
- Can bind the query result columns into the predefined areas.
- This new template does not replace either predefined or custom templates, it represents a new alternative for some of the most common scenarios.
- The MX Find Editable mode is now also available for template outputs. Auto Template supports this functionality.



# AUTO TEMPLATE

MX FIND - AUTO TEMPLATE - AREAS



## CARD

### CARD BODY

card-title

card-subtitle

card-text-1

card-text-2

card-text-3

card-text-4

card-text-5

### CARD FOOTER

Edit

Remove

# AUTO TEMPLATE

MX FIND - AUTO TEMPLATE - CONFIG

MX Find - Configuration

Result ID name: **contactid**

Set columns width in: **None - Auto**

Result columns:

Attribute Name	Display Type	Order	Text	Line Break	Column/Field Title	Include	Width
pa_labelname	Title				Label Name	<input type="checkbox"/>	100
jobtitle	Subtitle				Job Title	<input type="checkbox"/>	100
address1_composite	Text Block 1	1		<input checked="" type="checkbox"/>	Address 1	<input type="checkbox"/>	100
description	Text Block 2	1			Description	<input type="checkbox"/>	100
emailaddress1	Text Block 1	2	Bold	<input checked="" type="checkbox"/>	Email	<input checked="" type="checkbox"/>	100
pa_profileimage					Profile Image	<input type="checkbox"/>	100
parentcustomerid					Company Name	<input type="checkbox"/>	100
telephone1					Business Phone	<input type="checkbox"/>	100

Result display type: **Template**

Item template: **Auto**

Item layout option: **Card Decks (equal width and height - not attached)**

Villa Park, IL 21046 US



# AUTO TEMPLATE

MX FIND - AUTO TEMPLATE - DEMO





UNIT 3

# QUESTIONS & ANSWERS



UNIT 3

**THANKS!**