Custom Adaptive Form Components



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Before you Begin

AEM Forms includes a library of *out-of-the-box* adaptive form core components. We can also create our own custom adaptive form components and use them in our adaptive forms. This course will introduce you to adaptive form components and show you how to create your own custom adaptive form components.

Course Overview

Prerequisites: Introduction to Adaptive Forms, Create Adaptive Forms, or similar experience.

Approximate Instructor-Led Classroom Duration: 1 hours

www.aemforms.training

The support site (**www.aemforms.training**) is designed to support our students during and after a training session. Here is what you will find on the support site.

- The Known Issues section documents bugs and issues with various versions of AEM Forms.
- The Sandbox section lists AEM Forms Servers you can use for the hands-on exercises.
- The **Forum** section enables you to post, review, and answer questions about AEM Forms.

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Adobe's Adaptive Form Components

In this module, you will work with and learn about the AEM Forms adaptive form components.

The out-of-the-box Components

AEM Forms includes a library of *out-of-the-box* adaptive form core components. You can also create your own custom adaptive form components and use them in your adaptive forms. This course will introduce you to adaptive form components and show you how to create your own custom adaptive form components.



Some of the out-of-the box adaptive form components.

Our Custom Components

We will use out-of-the-box components to create our own custom components

- the Text Box component will become our DynamicCaption component
- the Drop-down component will become our US States component
- the Image component will become our Image Panel component
- the Button component will become our Color Button component

Exercises

Create a form

Follow these steps to create a form.

- 1. Open Forms Forms & Documents and navigate to your working folder.
- 2. Select Create Adaptive Form.
- 3. Select the **Blank** template.
- 4. Click Next.
- 5. Enter <yourname>SimpleForm for the Title. The Name will be created automatically.
- 6. Click Create.



7. Click Edit.

Use the Adaptive Form components

- 8. Make sure you are in **Edit** mode.
- 9. Select **Components** on the left.
- 10. Select **Adaptive Form** to filter your components list. You should just see the *out-of-the-box* AEM Forms adaptive form components.
- 11. Scroll down to the Text Box.
- 12. You will see the cq:icon (#1).
- 13. You will also see the jcr:title (#2) and the componentGroup (#3).
- 14. Click Show Description (the icon) and you will see the jcr:description (#4).

АВС	Text Box 2 Adaptive Form 3	Show Description	Component Description ×
μŤ	Text and Image sdmobile Components	6	Add a field to capture text strings.
т	Title Adaptive Form	θ	

- 15. Drag and drop a **Text Box** component to your form.
- 16. Select the **Text Box** and you will see a toolbar in Author mode.



17. Click **Configure** (*the wrench icon*) and you will see Property panels on the left. These property panels are an indication that this component has a cq:dialog child node.

Create an Application

We will create an application in this section with CRXDE Lite.

Note: If you are working on advanced topics and need CRXDE | Lite access to the Sandbox, email us (<u>info@smartdoctech.com</u>) and we will extend your privileges. Without these extended privileges you won't be able to save your changes in CRX.



The JCR Folders

If you are new to development in CRXDE | Lite, the following definitions are important to know. In particular, we will be copying nodes from Adobe's libs folder and developing them in our apps folder in this course.

Folder	Description
/apps	This is where we create our applications. This folder can contain components, overlays, client libraries, bundles, i18n translations, and static templates.
/conf	This stores the configurations, dynamic templates, and policies for application.
/content	The content created for your website.
/etc	This stores resources related to utilities and tools.
/home	This stores the AEM Users and Groups.
/libs	This is where Adobe stores the AEM software. It contains the libraries and software for AEM and represent the <i>out-of-the-box</i> AEM features. When you apply service packs and cumulative fix packs, you will see many updates to this folder.
/oak:index	This stores the Jackrabbit Oak index definitions. Each node specifies the details of one index. The standard indexes are visible, and you can use them to create custom indexes.
/system	This folder is only used by Apache Oak.
/tmp	This folder serves as a temporary working area.
/var	This stores system files including statistics and audit logs. You can find the Java servlets in the /var/classes folder.

Exercises

Create an application folder

Note: You may already have an application folder on the SmartDoc Sandbox. If you do, you can use this existing application folder.

1. Navigate to Adobe Experience Manager – Tools – CRXDE Lite.

http://<servername>:4502/crx/de

2. Click the **Develop** icon.

- Package Manager - Develop	Package Share (service discontinued, June, 2020)	
CRXDE Lite		
🍣 Save All 👻 Create 💌 Delete 🛛 Copy	Paste Move Rename Overlay Node Mixins Tools •	**
/content/hello-world		P
<u>۵</u> ه	G Home	
 apps adobe jptsite clientlibs components aemforms-fragment-commons clientlibs 	CRXDE Lite	Content Re

- Navigate to apps. Your instructor may create a team folder of type nt:Folder for all students to work in. If you don't have this folder, you can create a team folder by right-clicking on apps and selecting Create Create Folder. Provide the name of your company or organization for this team folder.
- 4. Right-click on apps/<teamfolder> and select Create Create Folder...
- 5. Enter <yourname> for this personal folder. For instance, in this example, dan is the personal folder name.



Create a Client Library

Note: You may already have a Client Library on the SmartDoc Sandbox. If you do, you can use it. Just review this section to make sure you have everything necessary for your Client Library.

6. Right-click on apps/<teamfolder>/<personalfolder> and select Create – Node...

	nforms-fragment-comm	ions	Ċ	RX	DEL	.ite
	Refresh Open		4			
	Create 🕨	3	Create Node	Acces	ss Control	Replication
	Delete		Create File		Туре	V
6	Сору	1	Create Folder	агуТуре	Name	n

- 7. Enter **clientlibs** for the Name.
- 8. Select cq:ClientLibraryFolder for the Type.
- 9. Click OK.
- 10. Click Save All.
- 11. Select the clientlibs node and open the Properties panel.
- 12. Add these values.
- Name: categories
- Type: String
- Value: <yourname>
- Multi: selected

db <<										
		Properties	Access	Control		Replication	Console		Build	Info
		Name 🔺		Туре	Val	lue	Protected	Mandat	ory	Multiple
lassApp		1 jcr:primaryType		Name	cq:	ClientLibraryFolder	true	true		false
in 🔁 jpt										
□ 💭 clientlibs	4									
social	N	lame categories		Туре	Strir	ng 🔽 Valu	e j <u>pt</u>		Multi	🗿 Add
		-0		2)_		B ——	-4)—	6 _

Note: If you are new to CRXDE | Lite, review these bullet points because they will help you when it comes time to add properties to your node. You add properties with the toolbar at the bottom of the Properties panel.

- #1: This is where you will enter the Name of your new property.
- #2: This is where you will enter the datatype of your new property.
- #3: This is where you will enter the Value of your new property.
- #4: If your new property needs to be an array of your datatype, select the Multi button.
- #5: Once your values are all set, click the **Add** button.
- 13. Click **Add**.
- 14. Click OK in the Edit categories window.

- 15. Click Save All.
- 16. Right-click on the clientlibs node and select Create Create Folder...
- 17. Enter css for the Name and click OK.
- 18. Click Save All.
- 19. Right-click on the clientlibs node and select Create Create File...
- 20. Enter css.txt as the filename.
- 21. Click OK.
- 22. Click Save All.
- 23. Double-click the **css.txt** file and enter this code into the text editor.

#base=css

- 24. Click Save All.
- 25. Right-click on the clientlibs node and select Create Create Folder...
- 26. Enter **js** for the Name and click **OK**.
- 27. Click Save All.
- 28. Right-click on the clientlibs node and select Create Create File...
- 29. Enter **js.txt** as the filename.
- 30. Click OK.
- 31. Click Save All.
- 32. Double-click the js.txt file and enter this code into the text editor.

#base=js

33. Click Save All.

Your structure should look like this.



Create a Components folder

- 34. Right-click on apps/<teamfolder>/<personalfolder> and select Create Folder...
- 35. Enter **components** for the Name.
- 36. Click **OK**.
- 37. Click Save All.

You now have an application folder for your custom components.

Custom Adaptive Form Components

Although every adaptive form component can be unique, they do share many common nodetypes and properties. This section will introduce you to some of these nodetypes and properties and describe the general anatomy of an adaptive form component.

Adaptive Form Component Attributes

The following is a list of attributes that describe a good adaptive form component.

- An Adaptive form component should be modular and reusable.
- An Adaptive form component should be self-contained.
- An Adaptive form component should have editable properties that a form Author can set.
- An Adaptive form component should have dialogs that are developed with Granite UI components, so they are consistent with AEM's Touch User Interface.

Nodetypes and properties

The following is a list of nodetypes used in adaptive form components.

- **cq:Component:** The primary nodetype of a component. This is the root node of a component.
- jcr:title: The title of the component. The value of this property is displayed to the Form Author in AEM.
- **jcr:description:** The value of this property is displayed to the Form Author in AEM when they click the icon associated with your component.
- cq:icon: The value of this property should be a standard icon in the Coral UI library. It will appear to the Form Author in AEM.

Edit and Config Nodes

The following is a list of nodetypes used in create Edit and Design dialogs in adaptive form components.

- cq:dialog (nt:unstructured): Creates a dialog for Edit mode.
- **cq:design_dialog (nt:unstructured):** Creates a dialog for Design mode.

CoralUI Icons

This table shows a few of the icons in the Coral UI library.

lcon	Name	HTML attribute		
T₽	textAdd	icon="textAdd"		
$_{\mathrm{T}}\mathbf{T}$	textSize	icon="textSize"		
-	usa	icon="usa"		
	imageAdd	icon="imageAdd"		

A complete list of Coral UI icons can be found at this URL.

https://helpx.adobe.com/experience-manager/6-5/sites/developing/using/reference-materials/coral-ui/coralui3/Coral.Icon.html#availableIcons

JSP

The components get most of their functionality from a JSP page called widget.jsp. We will update these JSP pages to modify the look or functionality of our component. In this example, we are adding a taglib to the JSP that references our client library.



Java Class Files

You can use Java class files for your functionality. AEM has a servlet engine and it will compile our Java class files into Java bytecode.



Exercises

Your own Custom Text Box

This component will be very similar to the standard out-of-the box Adobe guidetextbox.

1. Open **CRXDE | Lite** if it is not already opened.

http://<servername>:4502/crx/de

2. Click the **Develop** icon.



3. Navigate to /libs/fd/af/components.

4. Select the guidetextbox node. Notice the child nodes and properties.

🗄 🛃 guideswitch	PI	roperties Acces	ss Control	Replication	Console
guidetelephone guidetermsandconditions		Name 🔺	Туре	Value	
guidetextbox	1	allowedParents	String[]	*/parsys, */*layout	
🚊 🛃 cq:dialog	2	componentGroup	String	Adaptive Form	
🖪 🛃 cq:styleConfig	3	cq:icon	String	aBC	
🖪 🚭 cq:template	4	jcr:created	Date	2019-06-04T09:14	4:07.813-04:00
🔁 🧫 dialog	5	jcr:createdBy	String	admin	
in the second se	6	jcr:description	String	Add a field to capt	ture text strings.
icon.png	7	jcr:primaryType	Name	cq:Component	
init.jsp	8	jcr:title	String	Text Box	
🗄 🔄 widget.jsp	9	sling:resourceSuperType	String	fd/af/components/	guidefield

- 5. Right-click the guidetextbox node and select Copy.
- 6. Go back to apps/<teamfolder>/<personalfolder>/components and select Paste.
- 7. Click Save All.
- 8. Right-click the guidetextbox node and select Rename.
- 9. Enter <yourname>TextBox as the name.
- 10. Click Save All.
- 11. Make sure <yourname>TextBox is selected so you can see its properties on the right.
- 12. Enter <yourname> Custom Components as the componentGroup.
- 13. Enter **textAdd** as the *cq:icon*.
- 14. Enter Add a field to capture text strings, slightly customized as the *jcr:description*.

- 15. Enter <yourname> Text Box as the jcr:title.
- 16. Click Save All.

Your properties should now look like this.

Properties Acces	ss Control	Replication	Console	Build Info		
Name 🔺	Туре	Value			Protected	Mandatory
1 allowedParents	String[]	*/parsys, */*lay	yout		false	false
2 componentGroup	String	JPT Custom C	Components		false	false
3 cq:icon	String	textAdd			false	false
4 jcr:created	Date	2018-08-20T2	2018-08-20T21:06:32.063-04:00			false
5 jcr:createdBy	String	admin	admin			false
6 jcr:description	String	Add a field to	capture text strings, slig	ghtly customized	false	false
7 jcr:primaryType	Name	cq:Componen	t		true	true
8 jcr:title	String	JPT Text Box			false	false
9 sling:resourceSuperType	String	fd/af/compone	nts/guidefield		false	false
						0
ame	Type Strin	g 💙	Value		Multi	🕑 Add

Note: If you are new to CRXDE | Lite, review these bullet points because they will help you when it comes time to add properties to your node. You add properties with the toolbar at the bottom of the Properties panel.

- #1: This is where you will enter the Name of your new property.
- #2: This is where you will enter the datatype of your new property.
- #3: This is where you will enter the Value of your new property.
- #4: If your new property needs to be an array of your datatype, select the Multi button.
- #5: Once your values are all set, click the Add button.
- 17. Expand the <yourname>TextBox node and select the cq:template child node.

jpt	Enter search term to search the repository							Repo	sitory -
cq:template	P	operties	Access Control Replication						
i ialog		Name 🔺		Туре	Value		Protected	Mandatory	Multiple
	1	guideNodeClass		String	guideTextBox		false	false	false
init.jsp	2	jcr:primaryType		Name	nt:unstructured		true	true	false
🗉 📄 widget.jsp	3	jcr:title		String	JPT Text Box		false	false	false

- 18. Enter <yourname> Text Box as the *jcr:title*.
- 19. Click Save All.

Instructor Task

If you are taking this course as Instructor-led training, your Instructor will complete these steps to create a unique version of the adaptive form template for your class.

- 20. Select Tools Templates Adaptive Form Templates Reference.
- 21. Select the **Blank** template and click **Copy**.
- 22. Click Paste.
- 23. Select the new template and click Properties.

Enabled	Enabled	Enabled	Enabled			
ADAPTIVE FORM TEMPLATE Basic / 1 year ago 😪 Not published	ADAPTIVE FORM TEMPLATE Basic with Adobe Sign I year ago 🗞 Not published	ADAPTIVE FORM TEMPLATE Blank ⊮≷ Not published	ADAPTIVE FORM TEMPLATE Blank-Sept26 S minutes ago & Not published			

- 24. Enter Class Template as the Template Title.
- 25. Click Save & Close.
- 26. Select Class Template and click Edit in the Action bar.

Note: In order to see your components in Edit mode, your component group must be added to the new template's Content Policy. Follow these steps to add your component group.

- 27. Make sure you are in Structure mode.
- 28. Select the Adaptive form container and click Policy.



- 29. Select your component group.
- 30. Click **Done** to add it to the Policy.

Note: The goal is to have all the new Component Groups added to the Content Policy.



31. Make sure to enable the template when you finish.

Add the component to your form

- 1. Open Forms Forms & Documents and navigate to your working folder.
- 2. Select Create Adaptive Form.
- 3. Select the Class Template template.
- 4. Click Next.
- 5. Enter <yourname> Form for Custom Components for the Title. The Name will be created automatically.
- 6. Enter This form uses the template that includes custom component groups for the Description.
- 7. Click Create.

✓ Adaptive Form Created >					
Adaptive Form created successfully					
	Done	Edit			

- 8. Click Edit.
- 9. Select **Components** on the left.
- 10. Select <**yourname**> **Custom Components** to filter your components list. You should just see the components in your custom component group when this filter is applied.
- 11. Scroll down to the <yourname> Text Box.
- 12. You will see the cq:icon (#1).
- 13. You will also see the jcr:title (#2) and the componentGroup (#3).
- 14. Click Show Description (the icon) and you will see your updated jcr:description (#4).

Т.	JPT Text Box 2 JPT Custom Components	6 Show Description	Component Description ×
			Add a field to capture text strings, slightly customized

DynamicCaption Text Box

This component will dynamically resize and reposition the caption of a Text Box when the user enters data.



1. Open CRXDE | Lite if it is not already opened.

http://<servername>:4502/crx/de

- 2. Navigate to /libs/fd/af/components.
- 3. Right-click the guidetextbox node and select Copy.
- 4. Go back to apps/<teamfolder>/<personalfolder>/components and select Paste.
- 5. Click Save All.
- 6. Right-click the **guidetextbox** node and select **Rename**.
- 7. Enter dynamicCaption as the name.

😑 🥥 ibm					
😑 🥥 jpt					
🗉 💭 clientlibs	Properties	Access Control	Replication	Conso	
😑 🥥 components	Name	Turne			
🗄 🔂 dynamicCaption	Name 🔺	туре	value		
∃ ₫ jptTextBox	1 allowedParents	String[]	*/parsys, */*layout	yout	
🖽 📁 mastersite	2 componentGroup	String	jptSept Custom Components		

- 8. Click Save All.
- 9. Make sure dynamicCaption is selected so you can see its properties on the right.
- 10. Enter <yourname> Custom Components as the componentGroup. Make sure to use the same name each time for your componentGroup.
- 11. Enter **textSize** as the cq:icon.
- 12. Enter **This component will dynamically resize and reposition the caption when the user enters data** as the jcr:description.
- 13. Enter **Dynamic Caption** as the jcr:title.
- 14. Click Save All.

Your application should now look like this.

jptAFComponents									
Clientlibs Components		Properties		ccess Control		plication	Console	Build Info	
😑 🚭 dynamicCaption		Name 🔺		Туре		Value			
🖽 🛃 cq:dialog	1	allowedParents		String[]	*/parsys, */*layout				
🕀 🛃 cq:styleConfig	2	2 componentGroup		String		JPT Custom Components			
🕀 💑 cq:template		cq:icon		String		textSize			
dialog	4	jcr:created		Date		2019-06-05T10:11	:13.299-04:00		
	5	jcr:createdBy		String		admin			
	6	jcr:description		String	String This component will dyn			amically resize and reposition the caption	
🗃 📄 widget.jsp		jcr:primaryType		Name	cq:Component				
🕀 🛃 jptButton		jcr:title		String		Dynamic Caption			
🕀 🔂 jptTextBox	9	sling:resourceSupe	erType	String		fd/af/components/g	guidefield		

15. Expand the dynamicCaption node and select the cq:template child node.

16. Enter Dynamic Caption as the jcr:title.

+	Properties	Access Contro	l Replication	Console			
	Name 🔺	Туре	Value				
1	guideNodeClass	String	guideTextBox				
2	jcr:primaryType	Name	nt:unstructured				
3	jcr:title	String	Dynamic Caption				

17. Click Save All.

Update the JSP

- 18. Expand the **dynamicCaption** node if it is not already expanded.
- 19. Double-click widget.jsp to open the JSP code.
- 20. Add this taglib and tag to widget.jsp directly below the <%-- todo: comment and before the <div>. This taglib and tag can be found in the taglib.txt file in your Student Files.

<%@taglib prefix="ui" uri="http://www.adobe.com/taglibs/granite/ui/1.0" %> <ui:includeClientLib categories="<your client Library category>"/>

Note: This is your client library category, not your componentGroup.

- 21. Update the categories value with the name of your client library category.
- 22. Click Save All.

Your code should look like this.

<pre>19 <% 20 TextBox Component 21%> 22 <%@include file="/libs/fd/af/components/guidesglobal.jsp"%> 22 <%@include file="/libs/fd/af/components/guidesglobal.jsp"%> 23 <<c:if test="\${isPreviewMode && guideField.allowRichText}"> 23 <<c:if test="\$fisPreviewMode && guideField.allowRichText}"> 24 </c:if></c:if></pre>	•
<pre>25 26 <% todo: In case of repeatable panels, please change this logic at view layer%></pre>	
<pre>27 28 30 30 30 30 30 30 30 30 30 30 30 30 30</pre>	
<pre>31 32 32 32 33 32 33 33 33 34 35 35 35 36 36 36 36 37 36 37 37 37 37 37 37 37 37 37 37 37 37 37</pre>	.deF 🖵
Line 30, Column 1	

This JSP tag will ensure that the JSP file uses the client library you created earlier. This is the standard CRXDE | Lite method of referencing a client library from a JSP file. You can add JavaScript and CSS selectors to your client library and this JSP page will be able to use them.

23. Scroll to the bottom of the file and add the class="txtwcap" attribute to the input element of c:otherwise.

Your code should look like this.

🗄 🐴		
29	<pre><div <="" class="richTextWidget" data-locale="\${guide:getLocale" id="\${guideid\$\${'_widget'}\${' richText'}" pre=""></div></pre>	S.A.
30		1
31		
32		
33	<pre><<::when lest= >{guideField.multiline} ></pre>	
35		1
36		
37	<pre><c:otherwise></c:otherwise></pre>	
38	<pre></pre>	:1
40		
41		
42	<% End of Widget Div%>	-
4		
Line 40	Column 17	
Line 40, v		

24. Click Save All.

Add the JavaScript to the Client Library

25. Expand your client library folder.

apps/<teamfolder>/<personalfolder>/clientlibs

- 26. Right-click on the **js** folder and select **Create Create File**.
- 27. Enter dynamiccaption.js for the Name and click OK.
- 28. Click Save All.
- 29. Expand dynamiccaption.js so you can select its jcr:content node.
- 30. Double-click the jcr:data property (see illustration).
- 31. Click **Browse** and navigate to your Student Files.
- 32. Select the **dynamiccaption-js.txt** file in and click **Open** and you will see the file reference in your dialog box (*see illustration*).

				Edit jcr:data
Pr	operties	Access Control	Replication	dynamiccaption-js.txt Browse
	Name 🔺	Туре	Value	
1	jcr:data	Binary	view	
2	jcr:encoding	String	utf-8	
3	jcr:lastModified	Date	2019-06-05T20:	d .
4	jcr:lastModifiedBy	String	James Terry	
5	jcr:mimeType	String	application/octet	et.
6	jcr:primaryType	Name	nt:resource	
				OK

33. Click **OK** and the JavaScript will load into the node.

6	Home dynamiccaption.js
÷	AA
1 2 3 4 5	<pre>//** * Use this with the dynamicCaption custom component * name dynamicCaption Dynamic Caption * param {string} somExpression The Form Field for the dynamic caption */</pre>
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<pre>function dynamicCaption(somExpressionStr){ var senderCtrl=guideBridge.resolveNode(somExpressionStr); var pdiv=\$('#'+senderCtrl.id); pdiv.addClass('dynamiccapcss'); pdiv.find('input:text').keyup(function () { var txtctrl = \$(this); var curTxt = txtctrl.val(); var lblCtrl = txtctrl.parent().parent().find('label'); if (curTxt.length > 0) { lblCtrl.parent().show(); lblCtrl.show(); txtctrl.css('padding-top', '18px') //txtctrl.css('height', '46px') } }</pre>

34. Click Save All.

Add the CSS to the Client Library

- 35. Right-click on the css folder and select Create Create File.
- 36. Enter dynamiccaption.css for the Name and click OK.
- 37. Click Save All.
- 38. Expand dynamiccaption.css so you can select its jcr:content node.
- 39. Double-click the jcr:data property (see illustration).
- 40. Click Browse and navigate to the dynamiccaption-css.txt file in your Student Files.
- 41. Select the file and click **Open** and you will see the file reference in your dialog box (see illustration).
- 42. Click **OK** and the CSS will load into the node.

				Edit jcr:data
Pr	operties	Access Control	Replication	dynamiccaption-css.txt Browse
	Name 🔺	Туре	Value	
1	jcr:data	Binary	view	
2	jcr:encoding	String	utf-8	
3	jcr:lastModified	Date	2019-06-05T20:): :
4	jcr:lastModifiedBy	String	James Terry	
5	jcr:mimeType	String	application/octet	et
6	jcr:primaryType	Name	nt:resource	
				OK Cancel

43. Click Save All.

44. Update your css.txt file with a reference to your new file.

#base=css dynamiccaption.css

45. Update your js.txt file with a reference to your new file.

#base=js dynamiccaption.js

Another way to Reference Client Libraries

Although the previous method is considered best practice, there is another way to reference client library files. Once you have your client libraries established, you can user this approach to reference them in either JSP or HTML pages. You can reference a CSS file with an href link.

k href="/apps/<teamfolder>/<personalfolder>/clientlibs/css/dynamiccaption.css" rel="stylesheet"/>

You can reference a JavaScript file with the script tag.

<script src="/apps/<teamfolder>/<personalfolder>/clientlibs/js/dynamiccaption.js"></script>

Add the component to your form

- 46. Go back to AEM Forms.
- 47. Open the <yourname> Form for Custom Components form and make sure it is in Edit mode.
- 48. Click Refresh or Reload this page in your browser.
- 49. In the Side Panel click **Content**.
- 50. Select the Form Container at the top of your hierarchy.
- 51. Click **Configure** (the wrench icon).
- 52. In the Client Library Category enter <**yourname**> (the name of your client library category).

\$	Properties X V		JPTLAYOUTEXERCISE
4	Adaptive form container	×	
	Prefill Service	First Name	Last Name
Ē	Select 🗸		
19	Client Library Category	Address	
	Adaptive Form Theme		Text Box
	Canvas 3.0 🗸	Email	Today's Date

- 53. Click Done.
- 54. Select Components on the left.
- 55. Select <**yourname**> **Custom Components** to filter your components list. You should just see the components in your custom component group when this filter is applied.
- 56. Drag and Drop the Dynamic Caption component to your form.
- 57. Select the Dynamic Caption component and click Configure (the wrench icon).
- 58. Enter dynamiccaption for the Name.
- 59. Enter Enter your fullname (first and last) for the *Title*.
- 60. Enter Enter your fullname (first and last) for the Placeholder Text.
- 61. Click Done.
- 62. Select the dynamiccaption field and click Edit Rules.

JPT Text Box												
/	٩	汔	.	℅	Ŵ	+	<u>م</u>	6	Ē	{}		X
Enter your fullname (first and last)												
Er	nter your f	ullname	(first and la	ast)							Dynamic Ca	ption

63. Click Create.

- 64. If the Form Objects and Functions panel is not already open, click Form Objects and Functions.
- 65. Click Select State in the WHEN panel and select is initialized.
- 66. Click Select Action in the THEN panel and select Function Output.
- 67. Select the Functions tab on the left to open the Functions panel.
- 68. Drag and drop the **dynamicCaption** function to the *Drop function or select here* box.
- 69. Click the Select Option drop-down in the INPUT panel and select Object Property (see illustration).

THEN				
Euroction Output	dynamicCaption	Function Output	>	
Function Output	dynamicCaption	Mathematical Expressio		
	INPUT	n		
	somExpressionStr	Object Property		
	Select Option 💙	Date	>	
		L		

- 70. Click Tap here to select a property and select somExpression STRING.
- 71. Click Drop object or select here and select Enter your fullname (first and last) TEXT FIELD.

Your condition will now look like this.

Form Objects Functions	Form Objects and	Visual Editor 🗸 🗸			
Converts the passed parameter to String	\rm Add Conditi	on	Visual Editor		
Convert To Number Converts the passed parameter to Number	THEN				
emailvalidate			Code Editor		
ssnvalidate	Function Output	dynamicCaption			
zipcodevalidate		INPUT			
getCurrentTime		somExpressionStr			
dynamicCaption					
previous		somExpression of Enter your fulln	ame (first and last)		
updateBackground					

72. Switch from Visual Editor to Code Editor (see illustration above).

This is the code created by your Visual Rule.

dynamicCaption(this.somExpression);

- 73. Click **Done** and **Close**.
- 74. Click **Preview** and fill in the field.

Enter your fullname (first and last)	
Enter your fullname (first and last)	
James Terry	

You will see the caption is dynamically resized and repositioned when you start to type.

Explanation of the dynamicCaption function

The *dynamicCaption* function takes a string parameter. We pass it **this.somExpression** which is a reference to our control (i.e., the dynamiccaption Text Box).

guide[0].guide1[0].guideRootPanel[0].dynamicacaption[0]

Line 2 of the function uses the *resolveNode* method of *guideBridge* to get the handle of our control and assign it to the variable **senderCtrl**.



US States Drop-down List

This component will create a Drop-down List of 50 states.

- 1. Open CRXDE | Lite if it is not already opened.
- 2. Navigate to /libs/fd/af/components.
- 3. Select the guidedropdownlist node. Notice the child nodes and properties.

🕀 🛃 guideContainer									
🕀 🛃 guideContainerWrapper									
🕀 🛃 guidedateinput	Pr	operties	Access Control		Rep	plication	Console	Build Info	
🕀 🚭 guidedatepicker		Name 🔺	Туре		Value				
😑 🛃 guidedropdownlist	1	allowedParents		String[]		*/parsvs			
🕀 🔩 cq:dialog	2	componentGroup		String		Adaptive Form			
🖽 🛃 cq:styleConfig	~	componentoroup		ouning		Adaptive Form			
🖶 💑 contemplate	3	cq:icon		String		dropdown			
🗃 🔜 dialog	4	jcr:created		Date		2018-08-20T21:06	:30.917-04:00		
🗉 📄 icon.png	5	jcr:createdBy		String		admin			
🕀 📄 init.jsp	6	jcr:description		String		Add a drop-down li	ist to select one of the av	ailable options.	
😠 📄 widget.jsp	7	jcr:primaryType		Name		cq:Component			
🗄 🛃 guideemail	8	jor:title		String		Drop-down List			
🗄 🚭 guidefield	9	sling:resourceSuperT	Tvpe	String		fd/af/components/c	uidefield		
🕀 📥 guidefileupload		•	~	<u> </u>					

- 4. Right-click the **guidedropdownlist** node and select **Copy**.
- 5. Go back to apps/<teamfolder>/<personalfolder>/components and select Paste.
- 6. Click Save All.

- 7. Right-click the guidedropdownlist node and select Rename.
- 8. Enter **USStates** as the name.
- 9. Click Save All.
- 10. Make sure USStates is selected so you can see its properties on the right.
- 11. Enter <yourname> Custom Components as the componentGroup.
- 12. Enter **usa** as the cq:icon.
- 13. Enter A Drop-down List of the 50 US States as the jcr:description.
- 14. Enter **US States** as the jcr:title.
- 15. Click Save All.

Your application should now look like this.

ig 📁 jptAFComponents	•				•
😑 🥥 clientlibs					8
🖽 🥥 af					
🗄 🥥 css	 Properties 	Access Control	Replication	Console	Build Info 🔸
⊒	Name 🔺	Туре	Value		
🕀 🔂 dynamicCaption	allowedParents	String[]	*/parsys		
iamesTextBox	componentGroup	String	JPT Custom Components	5	
🗃 💑 jptTextBox	cq:icon	String	usa		
🖃 🛃 USStates	jcr:created	Date	2018-08-20T21:06:30.91	7-04:00	
🕀 式 cq:dialog	jcr:createdBy	String	admin		
🕀 🔂 cq:styleConfig	icr:description	String	A Drop-down List of the 5	i0 US States.	
	icr:primaryType	Name	cg:Component		
	icr:title	String	US States		
init inp	sling:resourceSuperType	String	fd/af/components/quidefi	bld	
imitiget in	sing.resourcesupertype	oung	iararcomponents/guident	JIU	
🖽 🔄 wiuget.jsp	•				•

- 16. Expand the USStates node and select the cq:template child node.
- 17. Enter US States as the jcr:title.
- 18. Click Save All.

Update the JSP

- 19. Expand your USStates component node.
- 20. Double-click the widget.jsp node.
- 21. Open usstates-js-new.txt from your Student Files in a Text Editor.
- 22. Go back to CRXDE and locate the <%-- todo: comment in the widget.jsp file.
- 23. Make some space after the <%-- todo: comment. Your new script tag will go here (see illustration).

6	Home Swidget.jsp
5	AA
22 23 24 25 26 27 28 29	<pre><%@include file="/libs/fd/af/components/guidesglobal.jsp"%></pre>
30 31 32 33	<pre><div !="null" \${guidefield.placeholdertext="" \${guideid}\${"_widget"}"="" &&="" class="<%= GuideConstants.GUIDE_FIELD_WIDGET%> dropDownList" fn:length(guidefield.placehold<br="" name="\${guide:encodeForHtmlAttr(guideField.name,xs
<c:if test=" style="\${guide:encod
<select id="><option disabled="" selected="" value="">\${guide:encodeForHtmlAttr(guideField.placehold</option></div></pre>

24. Copy the script tag from your **usstates-js-new.txt** file and paste it into the new white space in your widget.jsp file. Make sure to copy everything from the opening script tag to the closing script tag.

<script type="text/javascript">

\$(function(){

var

stateValue=["AL","AK","AZ","AR","CA","CO","CT","DE","DC","FL","GA","HI","ID","IL","IN","IA","KS","KY","LA","ME"," MD","MA","MI","MN","MS","MT","NE","NV","NH","NM","NY","ND","OH","OK","OR","PA","RI","SC","SD","TN","TX"," UT","VT","VA","WA","WI","WY"];

var

stateText=["Alabama","Alaska","Arizona","Arkansas","California","Colorado","Connecticut","Delaware","District of Columbia","Florida","Georgia","Hawaii","Idaho","Illinois","Indiana","Iowa","Kansas","Kentucky","Louisiana","Maine"," Maryland","Massachusetts","Michigan","Minnesota","Mississippi","Missouri","Montana","Nebraska","Nevada","New Hampshire","New Jersey","New Mexico","New York","North

```
Dakota","Ohio","Oklahoma","Oregon","Pennsylvania","Rhode Island","South Carolina","South
Dakota","Tennessee","Texas","Utah","Vermont","Virginia","Washington","Wisconsin","Wyoming"];
```

```
var ddlusstates=$("#${guideid}${"_widget"}");
ddlusstates.html(");
```

```
for(var i=0; i<stateValue.length;i++){</pre>
```

```
//$("#${guideid}${"_widget"}").append("<option value=""+stateValue[i]+"'>"+stateText[i]+"</option>");
if(stateValue[i] == "AL"){
```

```
ddlusstates.append('<option selected="selected" value="' + stateValue[i] + '">' + stateText[i] + '</option>');
}
```

```
else{
```

```
ddlusstates.append("<option value=""+stateValue[i]+"'>"+stateText[i]+"</option>");
```

}

```
}
```

});

```
</script>
```

25. Click Save All.

Add the component to your form

26. Go back to AEM Forms.

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	My Team Folder			Crea	ite	8
	Forms & Documents					
ADAPTIVE FORM jptSimpleForm						
I second ago						

- 27. Open your adaptive form and make sure it is in **Edit** mode.
- 28. Click Refresh or Reload this page in your browser.
- 29. Select Components on the left.
- 30. Select <**yourname**> **Custom Components** to filter your components list. You should just see the components in your custom component group when this filter is applied.

Note: You may need to click Refresh or Reload this page to see your new component.

- 31. Drag and Drop the US States component to your form.
- 32. Select the component and click **Configure** (the wrench icon).
- 33. Change the Name to **usstates**.
- 34. Click Done.
- 35. Click Preview and click the Drop-down List. You should see all 50 states.

Alaska	~
Mississippi	
Missouri	
Montana	
Nebraska	
Nevada	
New Hampshire	
New Jersey	
New Mexico	
New York	
North Dakota	
Ohio	
Oklahoma	

Image Panel

This component will enable the Author to select an image for a panel background.

-0	ŋ		Edit	~	Preview
		Text Box			^
		Text Box			
		Text Box			
4					- F

Note: This component works on AEM Forms on OSGi but has some issues on AEM Forms on JEE.

- 1. Open **CRXDE** | Lite if it is not already opened.
- 2. Navigate to /libs/fd/af/components.
- 3. Locate the **guideimage** node.
- 4. Right-click the **guideimage** node and select **Copy**.
- 5. Go back to apps/<teamfolder>/<personalfolder>/components and select Paste.
- 6. Click Save All.
- 7. Right-click the guideimage node and select Rename.
- 8. Enter imagePanel as the name.

/apps/ibm/jpt/components/imagePanel							
(*) @b	G Home						
	CRX DE Lite						
us siptTextBox usStates usStates usStates	Enter search term to search the repository						

- 9. Click Save All.
- 10. Make sure imagePanel is selected so you can see its properties on the right.
- 11. Enter <yourname> Custom Components as the componentGroup.
- 12. Enter imageAdd as the cq:icon.
- 13. Enter This component will add a background image to your panel as the jcr:description.
- 14. Enter Image Panel as the jcr:title.

15. Click Save All.

Your application should now look like this.

						*		
Pr	operties	Access Control	Replication	Console	Build Info			
	Name 🔺	Туре	Value	Value				
1	allowedParents	String[]	*/parsys, */*	*/parsys, */*layout				
2	componentGroup	String	JPT Custon	JPT Custom Components				
3	cq:icon	String	imageAdd	imageAdd				
4	jcr:created	Date	2018-08-20	2018-08-20T21:06:31.364-04:00				
5	jcr:createdBy	String	admin					
6	jcr:description	String	This compo	nent will add a backgro	ound image to your panel.			
7	jcr:primaryType	Name	cq:Compon	cq:Component				
8	jcr:title	String	Image Pane	Image Panel				
•) - F		

- 16. Select the **cq:template** child node under the **imagePanel** node.
- 17. Enter Image Panel as the jcr:title.
- 18. Click Save All.
- 19. Double-click the img.GET.java file to view the code.
- 20. Update the package definition in the Java file so it references your component path. This is the first line after the comment block.

Note: The values in the CRX path will help you make your package definition. Here is one example. Your details will be different but notice how I replaced the slashed with dots in this reference below.



If your path looks like the one above, your package reference will look like this.

package apps.april2020.jpt.components.imagePanel;

- 21. Click Save All.
- 22. Expand your client library folder.

/apps/<teamfolder>/<personalfolder>/clientlibs

- 23. Right-click on the js folder and select Create Create File.
- 24. Enter imagepanel.js for the Name and click OK.
- 25. Click Save All.

- 26. Expand imagepanel.js so you can select its jcr:content node.
- 27. Double-click the jcr:data property.
- 28. Click Browse and locate the imagepanel-js.txt file in your Student Files.
- 29. Select the file and click **Open**.
- 30. Click OK. You should now see the JavaScript that has been added to your node (see illustration).

	Home img.GET.java	
5	発	
1 2 3 4 5 6 7	<pre>function previous(color, url, previousBackground) { var urlSplit = url.split("/"); var currentBackground = color + urlSplit.splice(urlSplit.length - 1, 1); var value = currentBackground === previousBackground; previousBackground = currentBackground; return value; }</pre>	•
9 10 11 12 13 14 15 16 17 18	<pre>function updateBackground(activeItem, previousBackground) { var backgroundDiv = activeItem.find("#set-body-background"); if (backgroundDiv.length) { var color = backgroundDiv.attr("data-background-color") ? backgroundDiv.attr("data-background var url = backgroundDiv.attr("data-background-image") ? "url(" + backgroundDiv.attr("data-background var backgroundValue = color + url + " center center / cover no-repeat fixed"; if (!previous(color, url, previousBackground)) {</pre>	•
•	• • • • • • • • • • • • • • • • • • •	

- 31. Click Save All.
- 32. Copy the reference to **imagepanel.js** and save it in NotePad or a similar Text Editor. We will use this reference in a future step.

Save All • Create • Delete Copy Paste	Move	Rename Overlay Node Mixins Tools +
/apps/mcc/jpt/clientlibs/js/imagepanel.js		
	₩ ≪	🙆 Home
 Clientlibs Ccss Ccs.txt Ccs.txt Ccs dynamiccaption.js emailvalidate.js getCurrentTime.js imagepanel.js jcr.content ssnvalidate.js 		CRXDE Lite Enter search term to search the repository

- 33. Expand your components folder.
- 34. Right-click on guideimage.jsp and select Rename.
- 35. Enter imagePanel.jsp for the node name.
- 36. Click Save All.
- 37. Expand imagePanel.jsp so you can select its jcr:content node.

- 38. Double-click the jcr:data property.
- 39. Click Browse and locate imagepanel.jsp in your Student Files.
- 40. Select imagepanel.jsp and click Open.
- 41. Click **OK**.
- 42. Click Save All.
- 43. Double-click on the imagePanel.jsp node.
- 44. Update this reference at the bottom of the file so it points to your JS file. This is the reference you pasted into Notepad.

<script src="/apps/<teamfolder>/<personalfolder>/clientlibs/js/imagepanel.js"></script>

45. Your imagePanel.jsp code should now look like this.

6	Home imagePanel.jsp
÷	A
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 9 20	<pre><%@page session="false"%> <%@include file="/libs/fd/af/components/guidesglobal.jsp"%> <cq:include script="init.jsp"></cq:include> <c:set scope="request" value="\${guideImage.id}" var="guideid"></c:set> <c:if test="\${isEditMode}"></c:if></pre>
20	(Script Sree / apps/mcc/jpt/titentitus/js/imagepanet.js///script/

46. Click Save All.

47. Update your js.txt file with a reference to your new file.

#base=js

imagepanel.js

Note: We do not really need to updated our js.txt file to point to imagepanel.js. We added a script tag to our JSP file and this will work without adding this reference in the js.txt file.

48. Click Save All.

Add the component to your form

49. Go back to AEM Forms.

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	Forms & Documents					
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- 50. Open your adaptive form and make sure it is in **Edit** mode.
- 51. Click **Refresh** or **Reload this page** in your browser.
- 52. Select Components on the left.
- 53. Select <**yourname**> **Custom Components** to filter your components list. You should just see the components in your custom component group when this filter is applied.
- 54. Drag and Drop the Image Panel component to your form.
- 55. Select the component and click **Configure** (the wrench icon).
- 56. Enter myImagePanel as the Name.
- 57. Click Upload.
- 58. Select the **clear-blue-sky.jpg** file in your Student Files and click **Open**.
- 59. Click Done.
- 60. If you don't already have some fields on your form then drag and drop some Text Boxes to your form.
- 61. Click Preview.
- You will see the image filling the panel background.

	<u>ل</u>	DELETEME	Edit	Preview
	Text Box			*
	Text Box			
	Text Box			
	Text Box			
				-
	Text Box			100
4				•

Color Button

This component will add additional types to the standard button that enable the Author to select a button color.



- 1. Open **CRXDE | Lite** if it is not already opened.
- 2. Navigate to /libs/fd/af/components.
- 3. Right-click the **guidebutton** node and select **Copy**.
- 4. Go back to apps/<teamfolder>/<personalfolder>/components and select Paste.
- 5. Click Save All.
- 6. Right-click the **guidebutton** node and select **Rename**.
- 7. Enter **colorButton** as the name.
- 8. Click Save All.
- 9. Make sure **colorButton** is selected so you can see its properties on the right.
- 10. Enter <yourname> Custom Components as the componentGroup.

- 11. Enter This component will add additional types to the standard button that enable the Author to select a **button color** as the jcr:description.
- 12. Enter Color Button as the jcr:title.
- 13. Click Save All.

Your application should now look like this.

PI	operties Acces	s Control	Replication	n	Console	Build Info		
	Name 🔺	Туре		Value				
1	allowedParents	String[]		*/parsys, */*	layout			
2	componentGroup	String		JPT Custon	n Components			
3 cq:icon String			button					
4	guideComponentType	String		fd/af/compo	nents/action			
5	jcr:created	Date		2018-08-19T10:29:38.025-04:00				
6	jcr:createdBy	String		admin				
7	jcr:description String			This compo	nent will add additional t	ypes to the standard butte	on that enable the Author to select a button color.	
8	jcr:primaryType	Name		cq:Component				
9	jor:title	String		Color Butto	n			
10	sling:resourceSuperType	String		fd/af/compo	nents/guidefield			

- 14. Select the cq:template child node under the colorButton node.
- 15. Enter Color Button as the jcr:title.
- 16. Click Save All.
- 17. Double-click **widget.jsp** to open the JSP code.
- 18. Create some space before the first <div></div>.
- 19. Add this taglib and tag in the space you created (see illustration).

<%@taglib prefix="ui" uri="http://www.adobe.com/taglibs/granite/ui/1.0" %> <ui:includeClientLib categories="<your client Library category>"/>

- 20. Click Save All.
- 21. Replace "<your client Library category>" with the name of your client library.

Your code should look like this.



22. Click Save All.

Add the CSS to the Client Library

- 23. Right-click on the css folder and select Create Create File.
- 24. Enter colorbutton.css for the Name and click OK.
- 25. Click Save All.
- 26. Expand colorbutton.css so you can select its jcr:content node.
- 27. Double-click the jcr:data property.
- 28. Click Browse and navigate to the colorButton-css.txt file in your Student Files.
- 29. Select the file and click **Open** and you will see the file reference in your dialog box.
- 30. Click **OK** and the CSS will load into the node.

🙆 Home	e Colorbutton.css
🗄 👫 🖻	
1 but 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<pre>ton.jpt-green.jp-button-small { max-width: 100%; width: 250px; margin: 1rem auto; -webkit-appearance: none; -moz-appearance: none; -wobkit-transition: background-color .3s ease-in-out; transition: background-color .3s ease-in-out; tont-family: "Futura Bold", Arial, sans-serif; font-family: "Futura Bold", Arial, sans-serif; font-size: calc(16px + 0 * ((100vw - 320px) / 808)); line-height: 1; color: #fff; border-radius: 6.25rem; border: 1px solid transparent; background-color :#21a000; text-align: center; text-transform: uppercase; display: -webkit-box; di</pre>

31. Click Save All.

32. Update your css.txt file with a reference to your new file.

#base=css

colorbutton.css

- 33. Click Save All.
- 34. Go back to your **colorButton** component and expand the **cq:dialog** node.
- 35. Expand the child nodes until you get to this node (see illustration).

/cq:dialog/content/items/accordion/items/basic/items/type/items



36. Notice that there are 6 types. Each of these types is available to the Form Author.



- 37. Right-click the v1 node and click Copy.
- 38. Paste the node under items three times so you have three new nodes.
- 39. Click Save All.
- 40. Right-click on each new node and select **Rename** and update the names to be **v7**, **v8**, and v9.
- 41. Click Save All.
- 42. Select the v7 node so you can see its properties on the right.
- 43. Enter Center Green Button for the Value of your text property.
- 44. Enter **jpt-green jp-button-small** for the Value of your value property. *Note:* This is a selector in the colorbutton.css file (*see illustration*).

	Name 🔺	Туре	Value
1	jcr:primaryType	Name	nt:unstructured
2	text	String	Center Green Button
3	value	String	jpt-green jp-button-small

- 45. Click Save All.
- 46. Select the v8 node so you can see its properties on the right.

- 47. Enter Center Yellow Button for the Value of your text property.
- 48. Enter **jpt-primary-button jp-button-instance** for the Value of your value property. *Note:* This is a selector in the colorbutton.css file.
- 49. Click Save All.
- 50. Select the v9 node so you can see its properties on the right.
- 51. Enter Hyperlink for the Value of your text property.
- 52. Enter **button-hyperlink jp-button-hyperlink** for the Value of your value property. *Note:* This is a selector in the colorbutton.css file.
- 53. Click Save All.

Add the component to your form

54. Go back to AEM Forms.

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	My Team Folder			Crea	te	89
ADAPTIVE FORM jptSimpleForm 1 second ago	Forms & Documents					

- 55. Open your adaptive form and make sure it is in Edit mode.
- 56. Click **Refresh** or **Reload this page** in your browser.
- 57. Select Components on the left.
- 58. Select <**yourname**> **Custom Components** to filter your components list. You should just see the components in your custom component group when this filter is applied.
- 59. Drag and Drop the Color Button component to your form.
- 60. Select the component and click **Configure** (the wrench icon).
- 61. Change the name to simply **colorbutton**.
- 62. Click the Button Type drop-down and select Center Green Button.

		US States
E	Reset	Alabama
-	Save	
ís	Previous	Panel Backgr
	Next	Color Button
	Green Button	
	Green Button 🗸	Drag compo

63. Click Done.

64. Click **Preview**.

You will see your new Center Green Button.

- <u>0</u>	¢		TEST OF CUSTOM COMPONENTS	Edit		Preview
		Enter yo	ur fullname (first and last)			
	1	US States Alabama			~	
			COLOR BUTTON			

Experiment with some additional button types that point to different CSS selectors.

About this Courseware

SmartDoc Technologies supplied the official *Adobe-Certified* AEM Forms Training courseware to Adobe and Adobe's clients from 2016 – 2021. During that time, our SmartDoc Courseware was battle-tested by thousands of students worldwide. Our SmartDoc Technologies courseware has been peer-reviewed and certified by the Adobe *Engineering*, *Product*, and *Curriculum* teams and by thousands of students like you.

In addition to having the highest *quality* AEM Forms courseware, the SmartDoc library also has the highest *quantity* of AEM Forms courseware. You will find the perfect course for your specific AEM Forms needs in the SmartDoc library. You can always find a current listing of our Adobe AEM Forms training courses on our website.

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