CEMS Chemical Environmental Management System

**Custom Form Management** 

**Custom Form Creation** 

**Edit Form Properties** 

**Adding New Form Elements** 

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## **Custom Form Creation**

• To perform this function, the user must be a database administrator.

### **Creating a Custom Form Record**

**Step 1:** Navigate to the **Database Administrator** section of the Dashboard.

<ul> <li>Database Administration</li> </ul>		
application logs		
manage: 🧟 users,	TOOMS, data object	T

**Step 2:** Using the dropdown menu, scroll to the Custom Forms section and select *forms*. This will take you to the Custom Forms recordset, allowing you to see all custom forms created for your site.

**Step 3:** Click on the D button in the top right of your screen.

**Step 4:** Set the name of the form and its administrator and click save.

For	m List	Result(s) (1 - 8) of 8 📑 📑 🔂 🧃		
Sort	: [Name]			
	Name	Description		
•	Autoclave Spore Testing	Quarterly and as needed spore testing results		
	Biological Inventory	This inventory is to track biological organism storage.		
3	Biological Safety Cabinet Certification	Certification records for biological safety cabinets.		
	CEPS Technical Service Center Equipment Database	?? The CEPS TSC Equipment Database is a repository for all equipment the TSC has encountered within CEPS, including manuals, pictures, SOP's and maintenance records. The database is complete for Kingsbury Hall as of August 2016 and is expanding into other CEPS buildings. Please note that equipment listed in this data base does not indicate it's available for others to use. If interested in using any items, please contact the listed custodian/owner to determine if it may be available. If you have any questions about this data base of equipment within it please contact Kevan Carpenter at kevan.carpenter@unh.edu		
•	Example Form			
	Fall Protection Equipment Inspections	Records of fall protection equipment inspections.		
3	First Aid Kit Evaluation			
	Fume Hood Inventory	Inventory of Fume Hoods		

Note: After clicking save, the administrator of the form will be able to edit the forms contents and permissions.



## **Edit Form Properties**

### **Editing Data Permissions**

Data Permissions

default -> saved : ACTIVE\_ACCOUNT
saved -> saved : USER IS CREATOR

pending-approval : USER\_IS\_CREATOR

denied -> saved : USER\_IS\_CREATOR

saved -> pending-approval : USER\_IS\_CREATOR

pending-approval -> approved : RADIATION\_SAFETY\_OFFICER
pending-approval -> denied : RADIATION\_SAFETY\_OFFICER

approved : RADIATION\_SAFETY\_OFFICER, USER\_IS\_CREATOR

See generic workflow instructions for more information.

• Data Permissions are used to determine what types of users can view, edit, and move the form. To see a more detailed explanation of how to use Data Permissions visit the *generic workflow instructions* link.

**Step 1:** Using the dashboard section for your form, click on the *manage form* button.

Step	2: Now navi	gate to the	Data	Permissions	section	and	insert
your	desired user	permissions	5.				

Define user privileges that that are allowed to view and/or edit the collected form submission data.

· Ex	ample Form	
🔳 all	new record	i manage form

Example Form	
Description	
	A
Administrators	
Name	
Hunter, Roy	delete
Define users who can edit this form and view/edit all submitted data.	add
Data Permissions	
approved : RADIATION_SAFETY_OFFICER,USER_IS_CREATOR default -> saved : ACTIVE ACCOUNT	
<pre>denied -&gt; saved : USER_IS_CREATOR</pre>	
<pre>pending-approval : USER_IS_CREATOR pending-approval -&gt; approved : RADIATION_SAFETY_OFFICER</pre>	
pending-approval : USER_IS_CREATOR	•
pending-approval : USER_IS_CREATOR pending-approval -> approved : RADIATION_SAFETY_OFFICER pending-approval -> denied : RADIATION_SAFETY_OFFICER	▼ ∧ n submission data.
pending-approval : USER_IS_CREATOR pending-approval -> approved : RADIATION_SAFETY_OFFICER pending-approval -> denied : RADIATION_SAFETY_OFFICER saved -> pending-approval : USER_IS_CREATOR Define user privileges that that are allowed to view and/or edit the collected form	n submission data.

records reach or exceed this date. Also controls emails from site-specific custom task modules using this field, if they exist and are installed



Note: The following lines are from the example form above.

**Line 1:** (default -> saved : ACTIVE\_ACCOUNT)

This line states that anyone with an active account can submit a new form to the saved state.

- Line 2: (saved -> saved : USER\_IS\_CREATOR) The user who created this form can edit this form inside the saved state.
- Line 3: (saved -> pending-approval : USER\_IS\_CREATOR) The user who created this form can submit this form to wait for approval.
- **Line 4:** (pending-approval : USER\_IS\_CREATOR) The user who created this form can view but not edit the form waiting for approval.
- **Line 5:** (pending-approval -> approved : RADIATION\_SAFETY\_OFFICER) A user with the radiation safety officer can approve this form after it is submitted to pending-approval.
- **Line 6:** (pending-approval -> denied : RADIATION\_SAFETY\_OFFICER) A radiation safety officer can deny approval for this form after it is submitted to pending-approval.
- Line 7: (denied -> saved : USER\_IS\_CREATOR) A user who created this form can retrieve denied forms, edit them, and save them back to the saved state.
- Line 8: (approved : RADIATION\_SAFETY\_OFFICER, USER\_IS\_CREATOR) A radiation safety officer or the user who created the form can view but not edit an approved form.
  - Each line of the above example determines what different users can do depending on how the form is saved.
  - The section of text before the ":" explains what save state allows the user shown on the right can access the form.
  - Text after the ":" determines what permissions a user must have to access the form based on the saved state.



## **Designing a Form**

### **Adding a New Form Element**

<b>Step 1:</b> From the custom form's dashboard, select the <i>manage form</i>	Example Form
button.	

**Step 2:** Now navigate to the Relations section of the Form Properties page, near the bottom of the page.

**Step 3:** Select the design form link to pull up the form in the administrator view.

	<mark>⊯ all</mark>	e new	record	🗐 manage	e form
Relations					
(0) total subr (0) submissio		'S			
Form Link	: https://cer	ns.unh.edu/de	emo/CEMS/Fo	rmSubmissionReco	rd?form=47

new submission | new submission template | upload data | design form

delete

cancel

<b>Step 4:</b> Click on the <u>new</u> button to insert a	Example Form	Admin Menu
new element on the form.	•	show disabled
		new



save

**Step 5:** Insert the question you would like to ask or the text you would like to display in the question/content box. If you would like to have more formatting options, you can click on the visual editor button to bring up more options.

**Step 6:** Select the type of element you would like to add. Common field elements have built in options that enhance the element further than custom fields.

• Content elements display only the question/content field and do not allow for user input. The following steps in this section only apply to other element types.

**Step 7:** Decide the widget type of the element. Each widget type displays the content of the options section differently. Single line and multiline text boxes are the two widget types for custom user input.

#### question / content What is your favorite color? visual editor Enter form element content (HTML allowed). Advanced Guide element type text ٠ When possible use a Common Field if the field represents the type of data being stored. Doing so will provide additional enhancements widaet type single line text box . options red yellow blue green orange purple pink If the user should be presented with a list of options to pick from, enter the text for each available option on its own line above. See advanced instructions for defining labels or defining options using other data in the max lengt Enter the maximum number of characters allowed

**Step 8:** To give the user options, insert them into the options text box. Each option should be typed on its own line.

For support contact UNHCEMS at <u>cems-info@sr.unh.edu</u>. For more information about UNHCEMS please visit <u>http://www.cems-info.sr.unh.edu/</u>.



#### Form Element Record

**Step 9:** If you would like to have a default answer insert it into the default value text box.

**Step 10:** If you want to enter extra instructions or description enter them into the details text box.

**Step 11:** When looking at the form recordset, the column header corresponding to the current question is set using the report label text box. In this example, the column for this question will have the header "Favorite Color".

**Step 12:** In the conditional visibility section, you can make this question visible depending on an answer to a previous question. For a more detailed explanation, see the conditional visibility section of this documentation.

**Step 13:** Check any of the required, disabled, general search, and show in default search results options that you would like for this question.

defau	It value
I.	
details	
Eith	- er select from the list or enter your own color.
Ente	r instructions or additional details to display next to question. (HTML allowed)
Line	instructions of additional details to display next to question. (Think allowed)
report	label
Favo	rite Color
	report label for this question is used in the table header when using the report tools. For example, i
ques	tion is Is the container leaking?, the report label could be is leaking.
condi	tional visibility
•	contains 🔻
	s form element is visible based on the answer to a previous question, define the parent question ar lify expression. You may optionally match multiple values by separating each value with a   ( <i>OR bar</i> <i>iol</i> ).
_	
	equired
Is the	e user required to answer this question?
	isabled
Disal	ole the form element in form and search results. Previously saved data will not be deleted.
0 9	eneral search
Inclu	de field in dashboard general search box.
	how in default search results
Cont	rols whether this field should be automatically displayed in default search results.



# **Conditional Visibility**

• Conditional visibility is the ability to hide or show a question based on the answer to previous questions.

## **Setting Visibility Statements**

**Step 1:** Follow the steps in the Designing a Form section of this document to navigate to the conditional visibility section of the Form Element page.

Note: To edit a question or content, instead of create new content, click on the area you would like to edit then select the edit button on the right.



The format for inserting dates is four digit year, two digit month, and then two digit day ( YYYY-MM-DD ).

**Step 2:** In the left most dropdown menu, select the question you would like your current element to depend on.

**Step 3:** In the middle select the logical operator you would like to use to determine what answer makes the current element appear. More on logical operators can be found below.

**Step 4:** In the right most text box, insert the answers that make your question appear or disappear based on the logical operator.



# **Conditional Visibility**

## **Logical Operators**

To explain logical operators, we are going to be using an example form and set of questions shown below.

The section of this form asking to pick a number between 1 and 10 is a question titled One to Ten.

The section of this form asking for your favorite color is titled Favorite Color.

Pick a number between 1-10.	
1	1
0 2	
0 3	
• 4	
0 5	
0 6	
• 7	-
What is your favorite color?	
Either select from the list or enter your own color.	

Example Form



**Contains:** Searches the answer to the question in the left-hand text box for the value in the right-hand text box. If it finds the values in the right text box, the question being edited will display.



The above example says, when the answer to the question titled One to Ten contains the numbers 1, 2, or 3, display the Favorite Color question on the form. All the acceptable answers are 1, 2, 3, and 10. Note, 10 is an acceptable answer because it contains a "1" digit.

Example Form	
Pick a number between 1-10.	
0 1	A
• 2	
• 3	
• 4	
0 5	
© 6	
0 7	-
► advanced	
cancel	submit

This example does not have 1, 2, 3, or 10 selected and therefore does not display the question, "What is your favorite color?"

ck a number between 1-10.	
0 1	
2	
3	
0 4	
5	
6	
0 7	
What is your favorite color?	
	Ļ
Either select from the list or enter your own color.	
advanced	
cancel	submit

This example has 1 selected as the answer to the question One to Ten causing the next question, "What is your favorite color?", to appear.



**Does not Contain:** If the value in the right-hand box is found as part of the answer to the question in the left-hand box, the question being edited will disappear.



This example states, if the answer to the question One to Ten does not have the numbers 1, 2, or 3, then display this question. The statement could also be restated as, if One to Ten contains 1, 2, or 3, hide the question. Keep in mind, 10 is now also an invalid answer because it contains the digit "1".

0 1					
2					
3					
0 4					
5					
● 6					
∋ 7					
What is your fa	vorite color?			Ļ	
Either select fro	m the list or enter ye	our own color.			

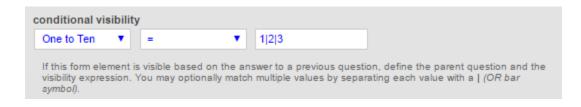
This example does not have 1, 2, 3, or 10 selected and therefore displays the question, "What is your favorite color?"

01			
2			
3			
4			
5			
6			
7			

This example has 2 selected as the answer to the question One to Ten causing the next question, "What is your favorite color?", to disappear.



**Equals** "=": If the value in the right-hand box is exactly equal to the answer to the question in the left-hand box, the question currently being edited will appear.



Now, if the answer to the question One to Ten is exactly equal to 1, 2, or 3, display the Favorite Color question.

01			- 1
2			
3			
0 4			
• 5			
6			
07			

Example Form

This example does not have 1, 2, or 3 selected making the question, "What is your favorite color?", disappear.

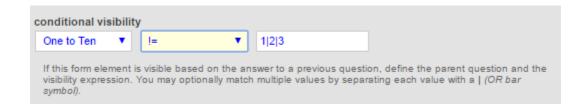
◎ 1	ŕ
0 2	
• 3	
0 4	
◎ 5	
0 6	
0 7	
What is your favorite color?	L
Either select from the list or enter your own color.	
advanced	
cancel	submit

Example Form

When either 1, 2, or 3, is selected for this example, the question, "What is your favorite color?", appears.



**Does Not Equal** "!=": If the value in the right-hand box is equal to the answer to the question in the left-hand box, the question currently being edited will disappear.



Now, if the answer to the question "One to Ten" is not equal to 1, 2, or 3, display the "Favorite Color" question. Or, if the answer to "One to Ten" equals 1, 2, or 3, hide the "Favorite Color" question.

Example Form	
Pick a number between 1-10.	
0 1	<b>^</b>
e 2	
0 3	
• 4	
• 5	
◎ 6	
• 7	-
► advanced	
cancel	

When either 1, 2, or 3 is selected the question, "What is your favorite color?", disappears.

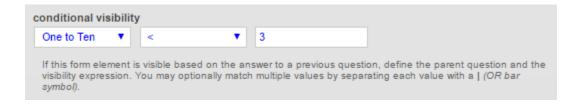
Pick a number between 1-10.	
0 1	
© 2	
3	
4	
5	
6	
7	
What is your favorite color?	
	L L
Either select from the list or enter your own color.	
advanced	
cancel	submit

Example Form

This example does not have 1, 2, or 3 selected making the question, "What is your favorite color?", appear.



**Less Than** "<": If the selected answer to the question in the left-hand box is less than the value in the right-hand box, the question currently being edited will be visible.



For this example, if the user answers 1 or 2 for "One to Ten", the question "Favorite Color" will appear.

Pick a number	between 1-10.	ample Form		
	between 1-10.			
				-1
0 2				
• 3				
◎ 4				
0 5				
0 6				
0 7				
► advanced				
can	cel		submit	

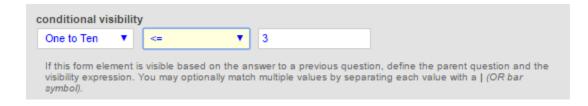
When any answer equal to 3 or larger is selected the "Favorite Color" question disappears.

Example Form	
Pick a number between 1-10.	
• 1	-
0 2	
0 3	
© 4	
0 5	
0 6	
0 7	
What is your favorite color?	
Either select from the list or enter your own color.	
► advanced	
cancel	submit

This example has selected 1, causing the "Favorite Color" question to appear.



**Less Than or Equal To "<=":** If the answer to the question in the left-hand box is the value in the right-hand box or less, display the question currently being edited.



Now, if the answer to the question "One to Ten" is 1, 2, or 3, display the "Favorite Color" question. Or you could restate this as, if the answer to "One to Ten" is 4 or larger, hide the "Favorite Color" question.

) 1			
2			
3			
• 4			
5			
6			
7			

Any selected value larger than 3 will cause the "Favorite Color" question to disappear.

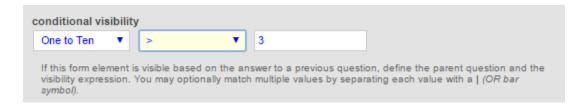
ck a number between 1-10.	
2	
9 3	
0 4	
5	
0 6	
7	
What is your favorite color?	
Either select from the list or enter your own color.	
advanced	
cancel	submit

Example Form

Since the above example selected 3, the "Favorite Color" question appears.



**Greater Than** ">": If the answer to the question in the left hand box is larger than the value in the right hand box, display the question currently being edited.



Now, if the answer to the question "One to Ten" is greater than 3, display the "Favorite Color" question. Or you could restate this as, if the answer to "One to Ten" equals 3 or less, hide the "Favorite Color" question.

Pick a number between 1-10.	Example Form	
◎ 1		
0 2		
3		
0 4		
0 5		
◎ 6		
0 7		
<ul> <li>advanced</li> </ul>		
cancel		submit

Any selected value that is 3 or less will hide the "Favorite Color" question.

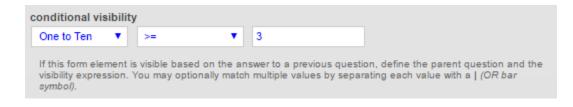
Example Form	
Pick a number between 1-10.	
0 1	•
© 2	
3	
• 4	
5	1
6     6	
© 7	-
What is your favorite color?	
Either select from the list or enter your own color.	
► advanced	
cancel	

Example Form

This example has 4, an answer larger than 3, selected making the "Favorite Color" question appear.



**Greater Than or Equal To** ">=": If the answer to the question in the left-hand box is equal to the value in the right-hand box or larger, display the question currently being edited.



Now, if the answer to the question "One to Ten" is 3 or larger, display the "Favorite Color" question. Or you could restate this as, if the answer to "One to Ten" equals 2 or less, hide the "Favorite Color" question.

0 1		
• 2		
3		
0 4		
5		
◎ 6		
0 7		

Only the answers 1 and 2 hide the "Favorite Color" question.

Example Form				
Pick a number between 1-10.				
0 1	^			
0 2				
• 3				
© 4				
◎ 5				
◎ 6				
0 7	-			
What is your favorite color?				
Either select from the list or enter your own color.				
► advanced				
cancel	submit			

This example has selected 3 for the answer and could select any number larger than that to display the "Favorite Color" question.

