

# Validation Option #1

Q	
<p>① Record 1</p> <p>Sub A</p> <p>② Sub B</p> <p>Sub C</p>	<p>Sub C</p> <p>Sub A</p> <p>③ Sub B</p>

<p>Record 1</p> <p>① Subrecord B</p>	
<p><u>Errors</u></p> <p>• Choice 1: Cannot be left blank</p>	<p>Include: <input checked="" type="checkbox"/></p> <p>choice 1: <u>choice is required</u></p> <p>Choice 2: <u>Answer</u></p>

# Validation Option #2

Q

Record 1  
Sub A  
Sub B  
Sub C

Sub C  
Sub A  
Sub B

Record 1  
Subrecord B

Include: ☒

choice 1: choice is Required

Choice 2: Answer

1

# Validation Option #3

Q	
<div>⓪ □ Record 1</div> <div>Sub A</div> <div>⓪ Sub B</div> <div>Sub C</div>	<div>Sub C</div> <div>Sub A</div> <div>⓪ Sub B</div>

Record 1	
↳ Subrecord B	
	<div>Include: <input checked="" type="checkbox"/></div> <div>choice 1: <u>choice is Required</u></div> <div>Choice 2: <u>Answer</u></div>

# Filtering Menu Example

<div><div><div></div></div></div> <div></div>	
<div><div><div>Record 1</div><div>Sub A</div><div>Sub B</div></div><div><div>Record 2</div><div>Sub C</div></div></div>	<div><div>Sub B</div><div>Sub A</div><div>Sub C</div></div>

# Filtering Menu Example

Text Filters

☐ Select All

☐ Record 1

- ☐ Sub A
- ☐ Sub B

☐ Record 2

- ☐ Sub C

CANCEL ACCEPT

Sub B  
Sub A  
Sub C

# Basic Multi-Select Behavior: 2 Items

Q		
	Rank Inc.	Rank
<input type="checkbox"/> Record 1		Sub AA
Sub AA	↓↑ <input checked="" type="checkbox"/>	Sub D
Sub AB		Sub E
Sub AC	↓50↑ <input checked="" type="checkbox"/>	Sub F
Sub AD		Sub J
Sub AE		Sub K
<input type="checkbox"/> Record 2		Sub L
Sub BA		Sub M
Sub BB		Sub N
Sub BC		Sub O
Sub BD		Sub P
Sub BE		Sub Z ...
<input type="checkbox"/> Record 3		Sub AC
Sub CA		Sub G
Sub CB		Sub H
Sub CC		Sub I
<input type="checkbox"/> Record 4		Sub Q
<input type="checkbox"/> Record 5		Sub R
<input type="checkbox"/> Record 6		Sub S
Sub A		Sub T
Sub B		Sub U
Sub C		Sub V
		Sub W

- Line break is at 50%
- Equal number of items above and below line break
- Selected items are at the top of each section

↓ 50%

# Basic Multi-Select Behavior : 3 Items

			Q	
	Rank	Inc.	Rank	
<input type="checkbox"/> Record 1			Sub AA	1
Sub AA	↓1↑	<input checked="" type="checkbox"/>	Sub D	
Sub AB			Sub E	
Sub AC	↓50↑	<input checked="" type="checkbox"/>	Sub F	
Sub AD			Sub J	
Sub AE			Sub K	
<input type="checkbox"/> Record 2			Sub L	
Sub BA			Sub ZA ...	-33%
Sub BB	↓100↑	<input checked="" type="checkbox"/>	Sub AC	50
Sub BC			Sub G	
Sub BD			Sub H	
Sub BE			Sub I	
<input type="checkbox"/> Record 3			Sub Q	
Sub CA			Sub R	
Sub CB			Sub S	
Sub CC			Sub ZB ...	-66%
<input checked="" type="checkbox"/> Record 4			Sub BB	100
<input checked="" type="checkbox"/> Record 5			Sub ZC	
<input type="checkbox"/> Record 6			Sub ZD	
Sub A			Sub ZE	
Sub B			Sub ZF	
Sub C			Sub ZG	



# Basic Multi-Select Behavior: 4 Items

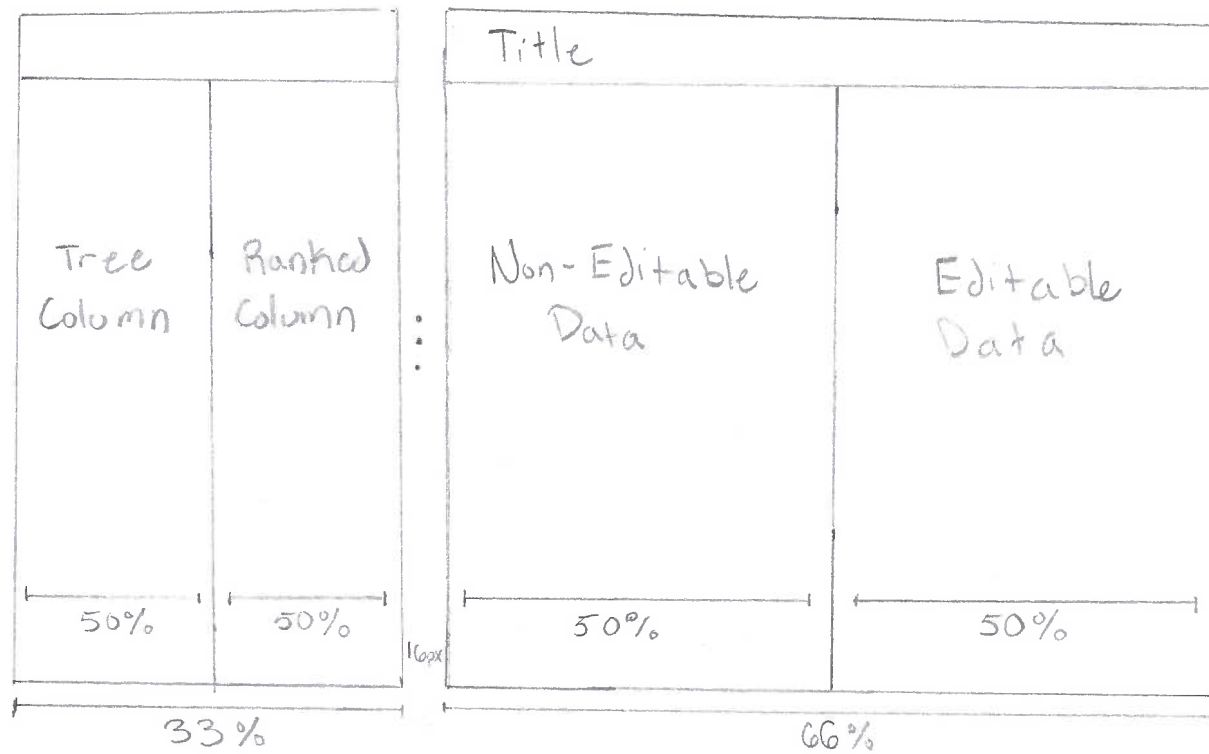
Rank Inc.		Rank	
<input type="checkbox"/> Record 1		Sub AA	1
Sub AA	↓ 1 ↑ <input checked="" type="checkbox"/>	Sub D	
Sub AB		Sub E	
Sub AC	↓ 50 ↑ <input checked="" type="checkbox"/>	Sub F	
Sub AD		Sub ZA ...	-25%
Sub AE		Sub AC	50
<input type="checkbox"/> Record 2		Sub G	
Sub BA		Sub H	
Sub BB	↓ 100 ↑ <input checked="" type="checkbox"/>	Sub I	
Sub BC		Sub ZW ...	-50%
Sub BD		Sub CC	75
Sub BE		Sub ZX	
<input type="checkbox"/> Record 3		Sub ZY	
Sub CA		Sub ZZ	
Sub CB		Sub ZB ...	-75%
Sub CC	↓ 75 ↑ <input checked="" type="checkbox"/>	Sub BB	100
<input type="checkbox"/> Record 4		Sub L	
<input type="checkbox"/> Record 5		Sub M	
<input type="checkbox"/> Record 6		Sub N	
Sub A			
Sub B			
Sub C			



# Basic Multi-Select Behavior: 5+ Items

		9	
Rank Inc.		Rank	
<input type="checkbox"/> Record 1		Sub AA	1
Sub AA	↓1↑ <input checked="" type="checkbox"/>	Sub BC	25
Sub AB		Sub AC	50
Sub AC	↓50↑ <input checked="" type="checkbox"/>	Sub CC	75
Sub AD		Sub BB	100
Sub AE			
<input type="checkbox"/> Record 2			
Sub BA			
Sub BB	↓100↑ <input checked="" type="checkbox"/>		
Sub BC	↓25↑ <input checked="" type="checkbox"/>		
Sub BD			
Sub BE			
<input type="checkbox"/> Record 3			
Sub CA			
Sub CB			
Sub CC	↓75↑ <input checked="" type="checkbox"/>		
<input type="checkbox"/> Record 4			
<input type="checkbox"/> Record 5			
<input type="checkbox"/> Record 6			
Sub A			
Sub B			
Sub C			

- Upon selection of 5 or more items, all break points and other items fall away, leaving only the selected items.



Defined  
Dimensions  
&  
Customizable  
Layout

- Users can click and drag the ":" between cards left or right to change the above card size ratios

# Ranked List Accordion Behavior

9

Record 1	Sub A
Sub X	Sub B
Sub Y	Sub C
Sub Z	Sub D
Record 2	Sub E
Sub G	Sub F
Sub I	Sub G
Sub AM	Sub H
Sub BG	Sub I
Sub K	Sub J
Sub AA	Sub K
Record 3	Sub L
Record 4	Sub M
Record 5	Sub N
Sub BD	Sub O
Sub J	Sub P
Sub AK	Sub Q
Sub E	Sub R
Record 6	Sub AA
Sub AB	Sub AB
	Sub BA
	Sub BB

9

Record 1	Sub S
Sub X	Sub T
Sub Y	Sub U
Sub Z	Sub V
Record 2	Sub W
Sub G	Sub X
Sub I	Sub Y
Sub AM	Sub Z
Sub BG	Sub AA
Sub K	Sub AB
Sub AA	Sub AC
Record 3	Sub AD
Record 4	Sub AE
Record 5	Sub AF
Sub BD	Sub AG
Sub J	Sub AH
Sub AK	Sub AI
Sub E	Sub AJ
Record 6	Sub AK
Sub AB	Sub AL
	Sub BA
	Sub BB



9

Record 1	Sub Y
Sub X	Sub Z
Sub Y	Sub AT
Sub Z	Sub AU
Record 2	Sub AV
Sub G	Sub AW
Sub I	Sub AX
Sub AM	Sub AY
Sub BG	Sub AZ
Sub K	Sub BA
Sub AA	Sub BB
Record 3	Sub BC
Record 4	Sub BD
Record 5	Sub BE
Sub BD	Sub BF
Sub J	Sub BG
Sub AK	Sub BH
Sub E	Sub BI
Record 6	Sub BJ
Sub AB	Sub BK
	Sub BL

9

<input type="checkbox"/> Record 1	Rank	Include	Sub D (Rec 2)	Rank
Sub A	4		Sub A (Rec 1)	4
Sub B	↓8↑	<input checked="" type="checkbox"/>	Sub F (Rec 3)	5
Sub C	12		Sub M (Rec 5)	6
<input type="checkbox"/> Record 2			Sub B (Rec 1)	8
Sub D	1		Sub H (Rec 3)	9
Sub E	13		Sub I (Rec 3)	10
<input type="checkbox"/> Record 3			Sub J (Rec 4)	11
Sub F	5		Sub E (Rec 2)	13
Sub G	3		Sub K (Rec 5)	2
Sub H	9		Sub G (Rec 3)	3
Sub I	↓10↑	<input checked="" type="checkbox"/>	Sub L (Rec 5)	7
<input type="checkbox"/> Record 4			Sub C (Rec 1)	12
Sub J	11			
<input type="checkbox"/> Record 5				
Sub K	2			
Sub L	7			
Sub M	6			

Rank Number  
always visible.

Check box and arrows  
only appear on mouse-  
over or selected

9	
Rank Include	Rank
<input type="checkbox"/> Record 1	Sub D (Rec2)
Sub A	Sub A (Rec1)
<input checked="" type="checkbox"/> Sub B <span>↓ 8 ↑</span>	Sub F (Rec3)
Sub C	Sub M (Rec5)
<input type="checkbox"/> Record 2	<input checked="" type="checkbox"/> Sub B (Rec1) 8
Sub D	Sub H (Rec3)
Sub E	Sub I (Rec3)
<input type="checkbox"/> Record 3	Sub J (Rec4)
Sub F	Sub E (Rec2)
Sub G	Sub K (Rec5)
Sub H	Sub G (Rec3)
Sub I <span>↓ 10 ↑</span> <input checked="" type="checkbox"/>	Sub L (Rec5)
<input type="checkbox"/> Record 4	Sub C (Rec1)
Sub J	
<input type="checkbox"/> Record 5	
Sub K	
Sub L	
Sub M	

Both rank number with arrows and include check box appear on mouse over or selected.

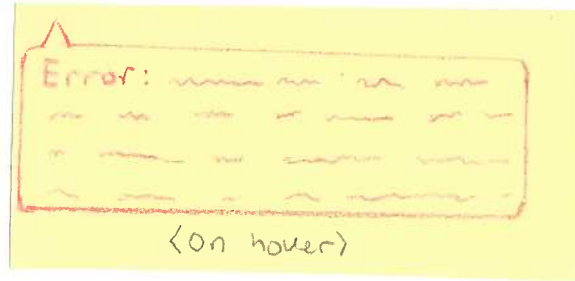


- Invalid Field with Long Error Message

Choice

Wrong Choice

⚠ Invalid



- Text Input Format (from CDK)

Favorite food

↑ Inactive & Empty



Favorite food  
Sushil

↑ Active with Entry  
• Label floats up above field  
Showing cursor

# Validation : Option #4 A

Q	
<div>② <input type="checkbox"/> Record 1</div> <div>Sub A</div> <div>① Sub B</div> <div>Sub C</div>	<div>Sub C</div> <div>Sub A</div> <div>① Sub B</div>

Record 1 ↳ Sub B	
<div>Subword ID: Sub B</div> <div>Color: Blue</div> <div>Shape: circle</div>	<div><input checked="" type="checkbox"/> Include</div> <div>choice 1</div> <div><u>Wrong Choice</u> <span>?</span></div> <div>① Invalid</div> <div>choice 2</div> <div><u>Right Choice</u></div>

# Validation : Option #4 B

Q

2 ☐ Record 1

Sub C

Sub A

1 Sub B

^  
Errors:

- Record 1: choice 2

- Subrecord B: choice 1

Record 1  
Sub B

Subrecord ID: Sub B

Color: Blue

Shape: circle

☒ Include

choice 1

Wrong Choice

?

Invalid

choice 2

Right Choice

# Full Lay out

Rank Inc.		Rank	
<input checked="" type="checkbox"/> Record 1		Sub C	
Sub A		Sub A	
<input checked="" type="checkbox"/> Sub B	↓ 31 <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Sub B	3
Sub C		Sub G	
<input checked="" type="checkbox"/> Record 2		Sub H	
Sub D		Sub E	
Sub E		Sub N	
Sub F		Sub I	
Sub G		Sub M	
Sub H		Sub D	
<input checked="" type="checkbox"/> Record 3		Sub Q	
<input checked="" type="checkbox"/> Record 4		Sub L	
Sub K		Sub R	
Sub L			
Sub M		Sub K	
<input checked="" type="checkbox"/> Record 5		Sub F	
Sub N		Sub P	
Sub O		Sub T	
Sub P		Sub V	
Sub Q		Sub J	
Sub R		Sub O	
Sub S		Sub U	
Sub T		Sub S	

Record 1 Sub B	
Subrecord ID: Sub B	<input checked="" type="checkbox"/> Include
Color: Blue	choice
Shape: Circle	<u>Wrong Choice</u> <input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/> Invalid
	choice
	<u>Right Choice</u>