

Scheduling Tool Design Document

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Scheduling Tool Basic Layout

Scheduling Table


Input start and stop times

<input type="checkbox"/>	Start	Stop	Groups
<div><div><div>+</div><div><input type="checkbox"/></div><div>⬅</div></div></div>	10	15	<div><div><div><div></div></div><div>...</div><div>GROUP 5 ×</div><div>GROUP 6 ×</div></div><div><div>🔖</div><div>🗑</div></div></div>
<input type="checkbox"/>			

Primary Color: #0288D1

Secondary Color: #FF9800

Alternate Table Layout (No Title)

<input type="checkbox"/>	Start	Stop	Groups 
<input type="checkbox"/>	10	15	Group 1 × Group 3 ×
<input type="checkbox"/>	1	1.5	Group 1 × Group 4 ×
<input type="checkbox"/>	5	5.5	Group 1 ×
<input type="checkbox"/>	50	51	Group 3 × Group 5 ×

Interactive Demo Here: <https://kpriksker.github.io/Demos/schedule.html>

Field Title: toggles AtoZ/ZtoA sorting when clicked

Text Input Filter: Begin typing to filter column. Includes drop down with dynamic clickable auto complete options. Field will also accept regular expressions for filtering.

Advanced Filter: Pops open small menu with tools for advanced filtering

Group Settings: opens administrative group settings "light-box" used to add/delete/rename groups.

Version Tagging: Click to input name of new version tag. Hover to select from versions to return to. Appears on mouse over (blank row not included).

Select/Deselect All

Add Row Below: appears on mouse over row (blank row not included)

Multi Select

Scrolling: when this widget reaches maximum height within the window, scrolling will begin. Rows below header will scroll up under the header row.

Automatic New Row: a new row will be dynamically added to the end of the table when typing starts in last row fields.

Group Selection Editor: opens selection editor "light-box" where user can add and remove groups from groups list for record. Appears on mouse over (blank row not included).

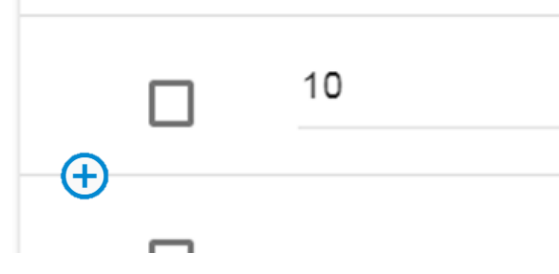
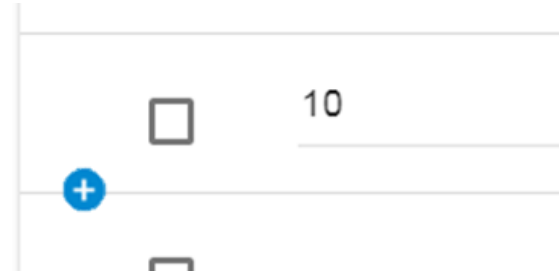
Group List: Default one line. Press "... " more button to expand viewable groups. Visible groups can be removed with "X" button.

Group Entry Field: click for cursor to appear at end of viewed group buttons. Type for guessing drop down. Choose from list or create new.

Delete FF : This icon will appear only if FF is not blank. Appears on mouse over (blank row not included).

Scheduling Table									
Input start and stop times									
		Start		Stop		Groups			
<input type="checkbox"/>									
<input type="checkbox"/>	<input data-bbox="293 763 343 806" type="button" value="+"/>	<input type="text" value="10"/>		<input type="text" value="15"/>		<input data-bbox="1592 763 1643 792" type="button" value="..."/>	<input data-bbox="1668 763 1821 792" type="button" value="GROUP 5 X"/>	<input data-bbox="1847 763 2000 792" type="button" value="GROUP 6 X"/>	<input data-bbox="2127 763 2178 792" type="button" value="FF"/>
<input type="checkbox"/>									

Alternate “Insert Below” Options



Validation

With dynamic error checking: if improper data is entered, underline of field turns red, and brief error message given.

A screenshot of a form with three rows. The first row contains a checkbox, the number '10', a text input field with 'G' entered, and two buttons labeled 'GROUP 5' and 'GROUP 6'. The text input field has a red underline and a red error message 'Invalid Entry' below it. A red circle with the number '1' is in the top right corner of the row.

With mouse over errored field: bubble appears below with more detailed error information.

A screenshot of the same form as above, but with a mouse cursor hovering over the text input field. A red tooltip bubble appears below the field with the text 'Start and stop times must be a number value for valid input.' The red circle with the number '1' is still present in the top right corner of the row.

Error badge appears on top right corner of row with error. Number inside states "1" or "2" errors found. Number changes as errors are fixed and created.

Validation

Error Badge Rollup: If any errors are found within table data, a rollup badge appears on the top right corner of the table with total number of errors. On click, toggle filter on/off to show only rows with errors.

Scheduling Table

Input start and stop times

<input type="checkbox"/>	Start	Stop	Groups	
<input type="checkbox"/>	10	G	GROUP 5 × GROUP 6 ×	1
<input type="checkbox"/>	abc			1

Scheduling Table


Input start and stop times

<input type="checkbox"/>	Start	Stop	Groups	
<input type="checkbox"/>				

Error Loading: If any delay in error processing, loading circle appears in place of roll-up badge.

Scrolling

Widget will dynamically adjust height to fit within window size. When number or rows becomes too high, scroll bar appears. Rows scroll behind title row and bottom border.

Scheduling Table			
Input start and stop times			
<input type="checkbox"/>	Start	Stop	Groups 
<input type="checkbox"/>	10	15	<input type="text" value="..."/> <input type="text" value="GROUP 5 x"/> <input type="text" value="GROUP 6 x"/>
<input type="checkbox"/>	1	1.5	<input type="text" value="..."/> <input type="text" value="GROUP 1 x"/> <input type="text" value="GROUP 3 x"/>
<input type="checkbox"/>	5	5.5	<input type="text" value="..."/> <input type="text" value="GROUP 5 x"/>
<input type="checkbox"/>	50	51	<input type="text" value="..."/> <input type="text" value="GROUP 2 x"/> <input type="text" value="GROUP 6 x"/>

Filter Button

This drop down menu will slide open directly below the “advanced filter” button when clicked.

Advanced Filter Button: slides down menu. Changes to secondary color when filter active.

Advanced Filter Options: slides over menu with logical filter options like Excel (different for Star/Stop number columns and Group text column)

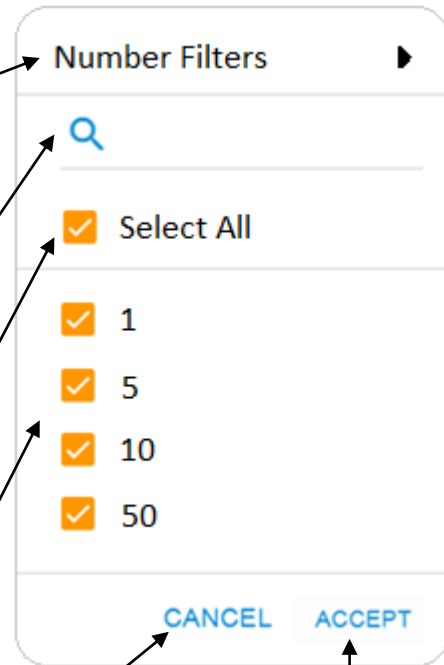
Search: characters typed into search filter values that appear below “Select All”

Select All Check: Toggles all check boxes on/off of values below

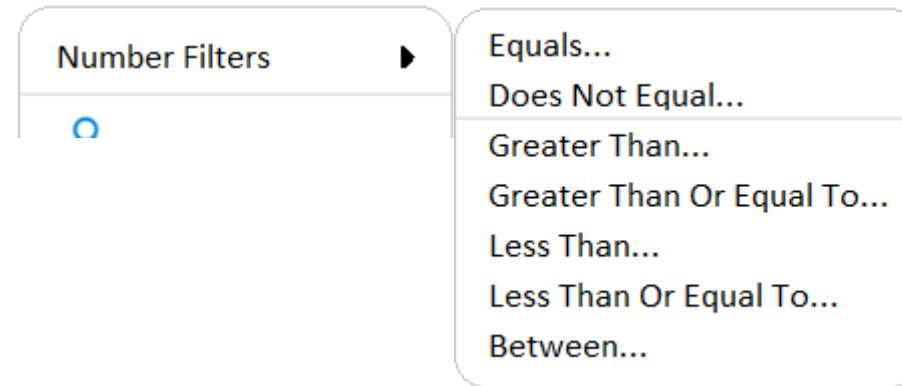
Filter Values: Check box toggles values hidden or visible in table.

Cancel: close window and make no changes to filters

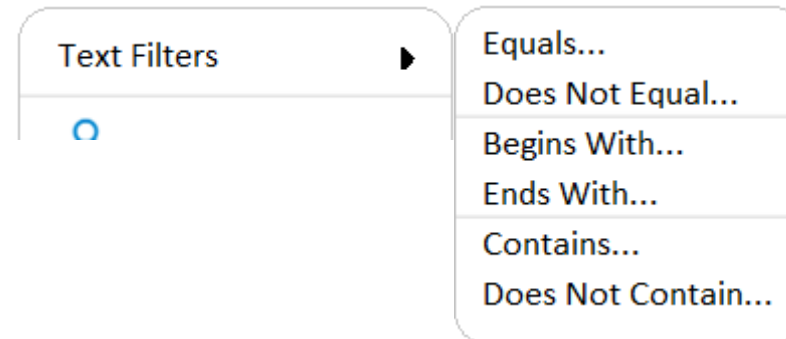
Accept: close window and apply filters



The Advanced Filter dialog box is shown in its default state. It has a title bar with a blue filter icon. Below the title bar is a search bar with a magnifying glass icon. Under the search bar is a 'Select All' checkbox, which is currently checked. Below that are four filter value checkboxes: '1', '5', '10', and '50', all of which are checked. At the bottom of the dialog are two buttons: 'CANCEL' and 'ACCEPT'.



The 'Number Filters' dropdown menu is shown. It has a title bar with a blue filter icon. Below the title bar is a search bar. Under the search bar are five filter options: 'Equals...', 'Does Not Equal...', 'Greater Than...', 'Greater Than Or Equal To...', and 'Less Than...'. Below these are two more options: 'Less Than Or Equal To...' and 'Between...'.

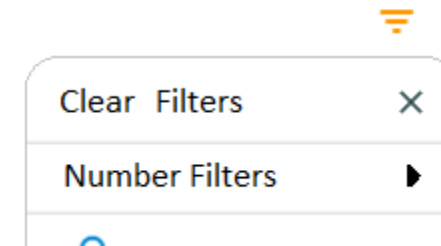


The 'Text Filters' dropdown menu is shown. It has a title bar with a blue filter icon. Below the title bar is a search bar. Under the search bar are five filter options: 'Equals...', 'Does Not Equal...', 'Begins With...', 'Ends With...', and 'Contains...'. Below these are two more options: 'Does Not Contain...'.

Advanced Filter Options: slides over on mouse over “Number Filters” (Start/Stop) or “Text Filters” (Groups).

The selections of any of these closes the menu and pastes the desired RegEx text into field below title.

Active Filter: when a filter is active, icon turns to secondary color (orange) and “clear filter” option is added.



The 'Active Filter' dialog box is shown. It has a title bar with an orange filter icon. Below the title bar is a 'Clear Filters' button with an orange 'X' icon. Below that is a 'Number Filters' dropdown menu with a blue filter icon.

Group Field

On typing into group field: suggested groups will appear below. On click of one of these groups, that group will be added to the row. If group does not exist, click on “(New Group)” option to create new with entered name.

Scheduling Table


Input start and stop times

<input type="checkbox"/>	Start	Stop	Groups
<input type="checkbox"/>	10	15	... GROUP 5 x GROUP 6 x Gr
<input type="checkbox"/>			

“...” Button: Expands row vertically to multiple lines in order to show all group tags. Row will condense back to previous state when user clicks anywhere outside of that row.

Group 1
Group 2
Group 3
Gr (New Group)

Alternate Option: Disclosure Arrow (Right Side)

Scheduling Table			
Input start and stop times			
<input type="checkbox"/>	Start	Stop	Groups 
<input type="checkbox"/>	10	15	<div>GROUP 5 × GROUP 6 ×</div> <div>◀</div>
<input type="checkbox"/>	1	1.5	<div>GROUP 1 × GROUP 3 ×</div> <div>▶</div> <div>GROUP 5 × GROUP 6 ×</div>
<input type="checkbox"/>	5	5.5	<div>GROUP 5 ×</div>

FF Group Editing

This view is a shadow box which appears when the “group selection editor” button is pressed on any FF row.

Filter Name Sets

Unassigned

GROUP 2

GROUP 3

Assigned

GROUP 1

GROUP 4

GROUP 5

→

←

CANCEL

ACCEPT

FF Group Editing

This view is a shadow box which appears when the “group selection editor” button is pressed on any FF row.

Group Search: Filter groups seen in the well below

Unassigned Groups: Already created groups which have not been assigned to the current FF row

Assigned Groups: Already created groups which have been assigned to the current FF row

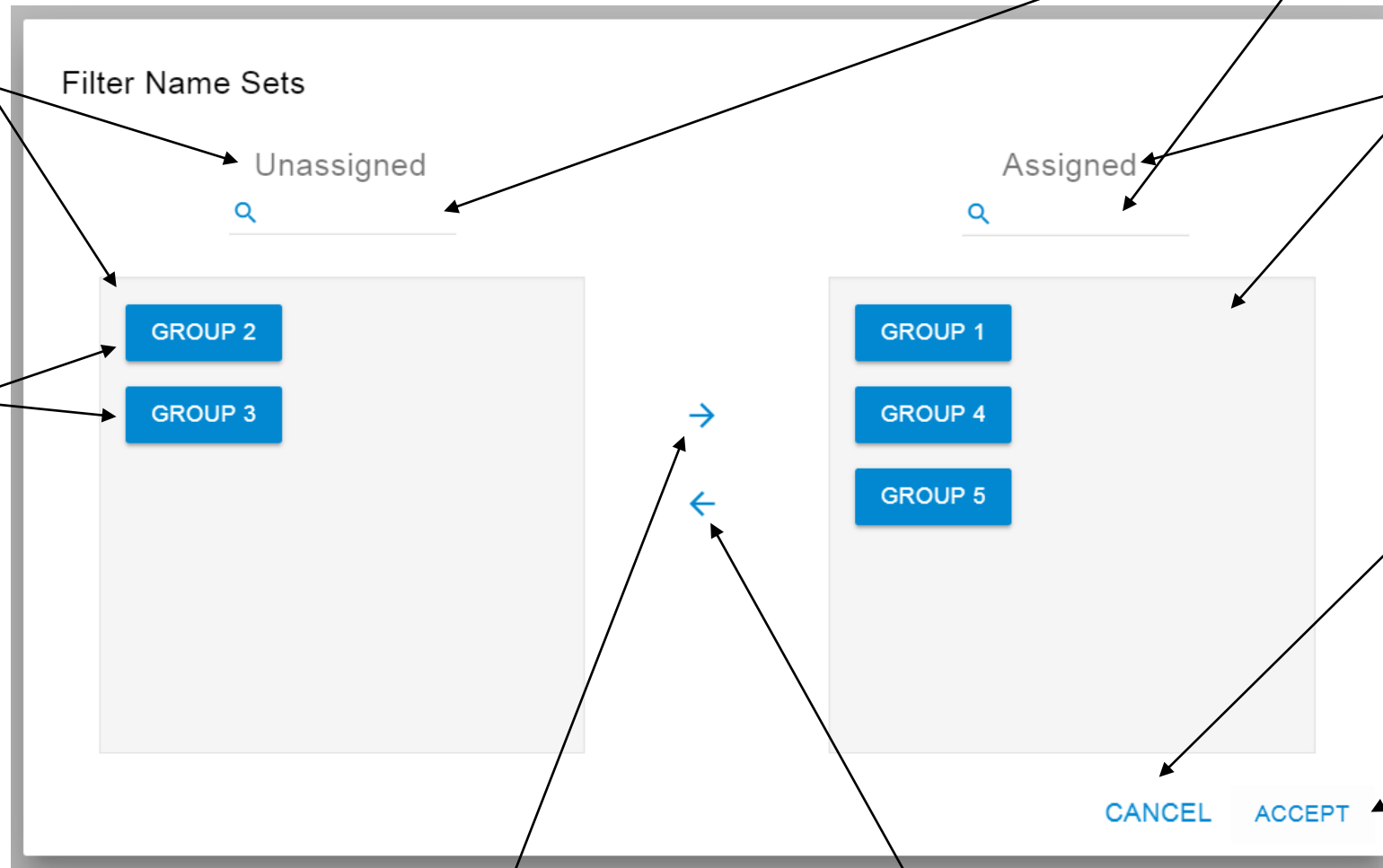
Group Buttons: zero to many groups can be selected at once. If selected, they can be acted upon with add or remove arrows.

Decline: to close box without saving. (Click outside of the box in shadowed area for same result.)

Accept: to save edits and close box

Add (right) Arrow: click to add selected groups in “unassigned” to “assigned”


Remove (left) Arrow: click to remove selected groups in “assigned” to “unassigned”



Group Settings

This view is a shadow box which appears when the “group settings” button is pressed next to “Group” header.

Groups



Group 1

Group 2

Group 3


CANCEL

ACCEPT

Groups Table Header: Sorts rows when clicked.

Rename: Type over any named group to rename


Groups



Group 1

Group 2

Group 3




CANCEL ACCEPT

Group Search: Filter groups seen below. If entered value is not found, option to **create** new.

Delete Group: Delete button floats in from right when mouse over group row or field active.

Groups

 Gr|

Group 1

Group 2

Group 3

Gr (New Group)

CANCEL ACCEPT

Multi-Select

Scheduling Table			
Input start and stop times			
<input checked="" type="checkbox"/>	Start	Stop	Groups
<input checked="" type="checkbox"/>	10	15	GROUP 5 GROUP 6
<input checked="" type="checkbox"/>	1	1.5	GROUP 1 GROUP 3
<input checked="" type="checkbox"/>	5	5.5	GROUP 5
<input type="checkbox"/>			

Select All: Selects all non-blank rows (excludes filtered out rows). Orange “selected” action buttons float up from bottom to attach to window.

Select Row: Selects row and changes background color to light blue. Orange “selected” action buttons float up from bottom to attach to window.

Version Tag Selected: Click to input name of new version tag for all rows selected.

Delete Selected: delete selected FFs. Light-box with text “You are about to delete # filters.” Select “Go” “Cancel”

On-Hover Messages

Explanation messages to appear upon hovering over objects on the page.



Add row below



Name new version or
Hover to select version



Edit groups for this record



Manage groups



Open advanced filtering menu



Select row



Delete this record.



Deselect row



Discussion Topics

- Right Click Options: (Kelsey's opinion) Should be avoided on webpages. This capability is unusual and not expected in web applications and therefore not obvious to the user.