

Requirements Gathering

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Intended Audience	Anyone involved in the creation, modification or replacement of graphical components belonging to EBI groups.
Use	The document contains a form that should be completed. The form within the document is intended to gather all the graphical components requirements for representing biological information on the web.
Keywords	biojs, requirements, questionnaire

Reference	Date	Last Reviewed	Description	Version
BIOJS_082011_01	09/08/2011	09/08/2011	Initial draft	1.0
BIOJS_092011_01		21/09/2011	With some improvements	1.1

Requirements for InteractionsTable

1 High level details

Describe the general considerations for the component. For example, the libraries to be used, notes, icon set, patterns, etc.

<i>Name</i>	<i>Description</i>
<i>icons</i>	<i>Iconset to be used on this table must be taken from the EMBL-EBI visual design guidelines.</i>

2 Style

<i>CSS element</i>	<i>Default Value</i>	<i>Description</i>
header background	gray #777	Background color for table header
header font	Verdana 10px	Font for the table header
header font color	white	Font color for table header
cell background	white	Background color for table content
cell font	Verdana 10px	Font for the table content
cell font color	black	Font color for table content
<i>border</i>	<i>1px solid #777</i>	<i>Cell border</i>
<i>Ascending order icon</i>	<i>arrow_up.gif</i>	<i>Icon used to mark the current ordered column (asc)</i>
<i>Descending order icon</i>	<i>arrow_down.gif</i>	<i>Icon used to mark the current ordered column (dsc)</i>
<i>Expand columns icon</i>	<i>arrow_expand.gif</i>	<i>Icon used for the drop-down box of selection boxes for showing/hiding out columns</i>

3. How to draw it?

Please draw a detailed sketch for the component (note that it would be a drawing on paper). Feel free to describe the relevant information.

General view:

The screenshot shows a table interface with the following elements highlighted by numbered callouts:

- 1:** Page summary "1..20 of 877"
- 2:** Page navigation buttons (1, 2, 3, 4, 5, >)
- 3:** Column toggle icon (double arrow)
- 4:** Content cell in the "Method" column
- 5:** Vertical scrollbar on the right side
- 6:** Horizontal scrollbar at the bottom
- 7:** Column header "Interaction" with a yellow lightning bolt icon
- 8:** Selection check boxes in the first column

<input type="checkbox"/>	Molecule A	Molecule B	Interaction	Method	Authors
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					

1. Current page summary
2. Pages (if any)
3. Icon to show/hide columns
4. Content cells
5. Vertical scroll (visible on overflow)
6. Horizontal scroll (visible on overflow)
7. Current ordered by column indicator
8. Selection check boxes

Columns:

Use the columns defined in PSI-MI TAB format reference supporting both versions [2.5](#) and [2.7](#)

The columns to show by default should be:

- Unique identifier for interactor A
- Unique identifier for interactor B
- Identifier of the publication
- Interaction types
- Interaction identifier(s)

However, the developer should be able to change this presets.

Show/hide columns:

			<p>Where, name is the field name in JSON file, title is the text to show in the column header and position is the column number in the table.</p> <p>For example, a column object <code>{name: "interactorId", title: "Interactor A", position:0}</code> could define the first column in table</p>
data	Yes	object	PSI-MITAB TSV file in JSON format. Both versions 2.5 and 2.7 must be supported.
visibleColumns	No	string[]	<p>Array of column names to show by default. These names must be defined in the <i>columns</i> object. By default:</p> <ul style="list-style-type: none"> Unique identifier for interactor A Unique identifier for interactor B Identifier of the publication Interaction types Interaction identifier(s)
css	No	string	Link to the css file containing the style settings. By default: "biojs.css"

5. Events

Please specify which events must be listened and which ones must be triggered by the component, and what must be the response/action must realise. Answer the following questions for each event:

What is the type of the event?

Which key was pressed during the event?

Which mouse button was pressed during the event?

What was the mouse position during the event?

What is the response of the component? step-by-step

Name	Key/Mouse button(s)	Position	Response												
onCellSelected	LEFT+CLICK	On any cell other than table headers	<p>Determine both row and column clicked by the user and return it on the event message.</p> <p>Data for the response:</p> <table><tr><th><i>name</i></th><th><i>type</i></th><th><i>description</i></th></tr><tr><td>row</td><td>int</td><td>Row number</td></tr><tr><td>col</td><td>int</td><td>Column number</td></tr><tr><td>interactorId</td><td>string</td><td>Interactor identifier</td></tr></table>	<i>name</i>	<i>type</i>	<i>description</i>	row	int	Row number	col	int	Column number	interactorId	string	Interactor identifier
<i>name</i>	<i>type</i>	<i>description</i>													
row	int	Row number													
col	int	Column number													
interactorId	string	Interactor identifier													

onHeaderClicked	LEFT+CLICK	On any table header	<div><div><div>1. Determine which header was clicked</div><div>2. Toggle the value of order direction: ascending/descending.</div><div>3. Do a new request of data ordered by the column clicked and resulting order direction.</div><div>4. Repaint the table with the ordered data</div><div>5. Return the column number</div></div><div><div>Data for the response:</div><table><tr><td>name</td><td>type</td><td>description</td></tr><tr><td>column</td><td>object</td><td><div>object containing the fields:</div><div><div>name</div><div>title</div><div>position</div></div><div>Where, name is the field name in JSON file, title is the text to show in the column header and position is the column number in the table.</div></td></tr></table></div></div>	name	type	description	column	object	<div>object containing the fields:</div> <div><div>name</div><div>title</div><div>position</div></div> <div>Where, name is the field name in JSON file, title is the text to show in the column header and position is the column number in the table.</div>
name	type	description							
column	object	<div>object containing the fields:</div> <div><div>name</div><div>title</div><div>position</div></div> <div>Where, name is the field name in JSON file, title is the text to show in the column header and position is the column number in the table.</div>							
onDataArrived	None	None	<div><div>Whenever an AJAX request is fetching data to be showed on the table. Interactions must be received in JSON format from the URL provided in the options.</div><div><div>Data for the response:</div><table><tr><td>name</td><td>type</td><td>description</td></tr><tr><td>data</td><td>object</td><td>Received data</td></tr></table></div></div>	name	type	description	data	object	Received data
name	type	description							
data	object	Received data							

6. Methods

<i>Name</i>	<i>Arguments</i>	<i>Action</i>
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showColumns	<table><tr><th>Name</th><th>M</th><th>Type</th><th>Description</th></tr><tr><td>names</td><td>Y</td><td>array</td><td>Array containing the column names to be showed.</td></tr></table>	Name	M	Type	Description	names	Y	array	Array containing the column names to be showed.	Add the columns on the visible area of the table				
Name	M	Type	Description											
names	Y	array	Array containing the column names to be showed.											
hideColumns	<table><tr><th>Name</th><th>M</th><th>Type</th><th>Description</th></tr><tr><td>names</td><td>Y</td><td>array</td><td>Array containing the column names to be hided.</td></tr></table>	Name	M	Type	Description	names	Y	array	Array containing the column names to be hided.	Remove columns from the table				
Name	M	Type	Description											
names	Y	array	Array containing the column names to be hided.											
orderBy	<table><tr><th>Name</th><th>M</th><th>Type</th><th>Description</th></tr><tr><td>colmnName</td><td>Y</td><td>sting</td><td>Ordering column name.</td></tr><tr><td>direction</td><td>N</td><td>int</td><td>0 - Ascending 1 - Descending Default: 0</td></tr></table>	Name	M	Type	Description	colmnName	Y	sting	Ordering column name.	direction	N	int	0 - Ascending 1 - Descending Default: 0	Do ordering by the provided column.
Name	M	Type	Description											
colmnName	Y	sting	Ordering column name.											
direction	N	int	0 - Ascending 1 - Descending Default: 0											

7. Glosary

Term	Description
PSI-MITAB 2.5	Is a format which is part of the PSI-MI 2.5 standard . It has been derived from the tabular format provided by BioGrid. MITAB25 only describes binary interactions, one pair of interactors per row. Columns are separated by tabulations. More reference information here .
PSI-MITAB 2.7	Is an extension of the PSI-MI 2.5 and 2.6 standard. It has been derived from the tabular format provided by BioGrid. MITAB27 only describes binary interactions, one pair of interactors per row. Columns are separated by tabulations.