FathGrid

developer documentation

www.fathsoft.com

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Installation

Just add fathgrid.js to your page HEAD section

<script src="fathgrid.js"></script>

Initialization

First, make sure you a have a table with an ID attribute in your HTML:

To initialize FathGrid object in place of a table, use JavaScript code:

```
var t1=FathGrid("table1",{ ...configuration_options });
```

Configuration options

Configuration options is an object set as second parameter to FathGrid initialization call. It can contain the following fields:

Field	Description	Default
size	page size	10
page	page number	1
filterable	allow filters in table header	true
editable	allow editing when clicking on cells	false
pageable	allow paginator true	
sortable	allow sorting by clicking on column headers	true
showFooter	show table footer	false
showGroupFooter	show group footer	false
data	data array	
rowClass	function (item,idx) which returns string of	
	class names to add to each TR element in	
	table body	
onChange	function to be called whenever cell data is	function(item, col, oldval,
	changed	newval)
groupOn	function (item, index) which returns	function(item. idx){}
	grouping string	
sortBy	array of column indices for fixed filter	[]
columns	array of column configuration objects	[]
serverURL	templated URL to retrieve JSON data from	null
loading	message to show while loading data	'Loading'
selectColumns	allow hiding/showing columns	false
onInitFilter	function which is called when filter row is	function(tr_elment){}
	created. Useful for customizing appearance	
	of filter controls	
onInitTable	function which is called when table body is	function(tbody_elment){}
	rendered. Useful for customizing	
	appearance	

Column configuration options

Column configuration object can contain the following fields:

Field	Description	Default
name	field name	
visible	if false, hide this column	true
filter	list-of-values for filter or null to	undefined
	automatically create list from table data	
value	le function(item) which returns text to display	
	in column	
html	function(item) which return HTML for	
	column cell	
header	text to show in column header	
footer	function(items, element) which returns	
	text to display in footer cell	
groupFooter	expression or a function(items) which	
	returns grouping value	
editable	allow cell editing when clicked	false
type	HTML input type for cell editor	text
pattern	HTML validation pattern for input element	
title	input title or a message to show when	
	editing	
listOfValues array of values to choose from whe		
	editing cell value	
class	column class string. Usefull to add text-	
	alignment to the column	

Grid data

Table data can be loaded from:

- 1. Inline HTML table
- 2. Dynamic JavaScript array
- 3. Server-side API endpoint

Inline data

Simply put data in table HTML in TBODY TR TD elements:

Dynamic data

Configuration option "data" allows setting data from JS array:

```
var demodata=[
    ['100','Service title 100', 2, 134],
    ['120','Some stuff', 10, 160],
    ['310','Goods', 5, 2000],
];
var t1=FathGrid("table1",{
        data: demodata
};
```

Server-side data

To load data from server, set **serverURL** configuration option to string template:

note that URL string has these placeholders:

```
    ${size} replaced with page size setting
    ${page} page number (1,2,3...)
    ${sort} sort field names
    ${order} order of sort, "asc" or "desc" for sort fields
    ${search} search term (if any)
    ${filters} replaced with filer name/value pairs (eg: name=test&price=1)
```

API

FathGrid object has the following methods:

Method	Parameters	Description
getData		returns read-only copy of table data
setData	data:array	sets new data
export	format: 'txt', 'csv', 'xls','pdf'	downloads data-export file
	filename: downloaded file name	
render		re-draws the table
sort	column_index: 1-based column	sort data by field
	desc: true for descending order	
	multi: true for multicolumn sort	
getSort		returns array of field indices by which
		data is sorted
setSort	new_sort : array of column indices	sets sort fields
filter	column_index: column	sets data filtering
	value: filter value	
getFilter		returns current filter
editCell	rownum: 1-based row index	starts editor in cell
	col: 1-based column index	

search	q : search term	sets instant search term
getSelectedItem		returns data item from currently
		selected row
deleteRow	rownum: 1-based row index	deletes a row
insertRow	rownum: 1-based row index	insert new row
	item: new item data	
setServerURL	url: string	set new server URL
wrapperEl		returns FathGrid wrapper HTML
		Element
selectRow	rownum: 1-based row index	selects specified row
showSubgrid	subgrid: details FathGrid	insert sub grid below currently selected
	html: custom HTML to add before	row
	sub-grid	

How to...

Display calculated columns

See column configuration value and html options.

Group by expression

See **groupOn** and **showGroupFooter** configuration options.

Add column footer

See **footer** column configuration option.

Change appearance of some rows

See rowClass config option.

Editing

If config.editable is true, call **editCell(row,col)** API function to start editor.

Shift+arrow keys move editor across table. Columns with **editable**=false option set are skipped.

Insert new row

Call insertRow API function.

Delete row

Call deleteRow API function.

Show sub-grid

First, create second FathGrid object which will hold sub-grid data, then, call **showSubgrid** on main grid to insert details grid under currently selected row.