A javaScript library which supports an HTML 5 Data Table with paging, using Handlebars.js and Bootstrap.

# Features

1. Provides Paging movement controls:
   * First, Previous, Next, Last
2. Allows control of Page Size via a control
   * Dropdown list with multiple page size options, including **All**
3. Displays Paging information
   * Showing 1 – X of Y entries
4. Provides a client-side Filter, but only for data in the table (i.e. doesn’t pass filter to backend data server)
5. Allows Header columns to be sortable
   * Sorting done server-side
   * Support for Date, Integer, and String data
   * Passes sort id and direction to server-side
6. Integrates seamlessly with Handlebars
   * Can populate data asynchronously via Handlebars template
   * Perhaps register the Handlebars template and update functions
   * Passes Page, Page Size, Sort Column, and Sort Direction to backend data server
   * Receives data plus total number of entries
7. Provides ‘spinner’ for displaying data loading asynchronously
8. Displays default message when there are no records to display
9. Uses Bootstrap for styling
10. Needs to be responsive:
    * Columns are intelligently wrapped
    * Supports hidden columns

# Implementation

1. Written in javaScript
2. Uses a minimum of jQuery
3. Use javaScript prototypes (why?)
4. Try to hide the private helper functions
5. Throw exception where appropriate
6. Return itself, so that dot-operator will work
7. Dot-operator must also return itself, so object chaining will work
8. Eventually, control its scope so more than one can be on a page (future)
9. Locates the HTML table in the DOM and creates the necessary elements dynamically
   * Paging movement controls
   * Page Size control
   * Paging information
   * Sortable column headers
   * Note: Column header Ids must be defined in the HTML table
10. Defaults:
    * Page: 1
    * PageSize: 10
    * SortColumn: Id
    * SortDirection: ‘asc’

# Interface

1. Requires a HTML table definition
   * Heading row must be classed

<table id=”CustomerTable” ctTotalItems=”100” class=”table table-striped tabled-bordered table-condensed table-hover”>

<thead>

<tr class=”colHeaders”>

<th id=”Id” class=”sortable”> <a href="#">ID</a></th>

<th id=”FirstName” class=”sortable”><a href="#">First Name</a></th>

<th id=”LastName” class=”sorable”> <a href="#">Last Name</a></th>

<th id=”Email” class=”sortable”><a href="#">E-Mail</a></th>

</tr>

</thead>

<tbody id=”CustomerList”>

</tbody>

</table>

1. Instantiation

var pager = new TablePagerLib( {

tableId: ‘CustomerTable’,

totalItemsAttribute: ‘ctTotalItems’,

page: 1,

pageSize: 10,

pageSizeOptions: [[10, 25, 50, -1],[10, 25, 50, ‘All’]],

sortColumn: ‘Id’,

sortDirection: ‘asc’,

columnHeaderClass: ‘colHeaders’,

spinnerRef: ‘/images/spinner-128.gif’

});

1. Data Binding

pager.setDataBinding( function() {

//Do jQuery ajax and Handlebars.js stuff here

pager.endDataBinding(results.totalItems);

});

1. Test

# To Dos

1. Columns should indicate whether they are sortable via a class ‘sortable’.
2. Add code blocks to README for sample configuraiton

# Issues

1. Control onclick/change events can’t find the library instance.
   * Possible solution is to register each instance by name in a hashtable stored in the windows scope.
   * At least partial solution by using **addEventListener** and using self (var self = this;)
2. Spinner needs to compute it’s top and left locations