



ACTION PLAN REPORT

Application: kendo

Analysis label: a

Analysis date: 2020/12/03 09:44

Report date: 2020/12/03 09:51



OVERVIEW

This action plan is the result of a What If exercise calculated in order to get better in quality spending the less as possible. In this section Kiuwan provides the main numbers as they are now and as they are going to be if all suggested correction will be done.

Effort to spend 22.2 Hours

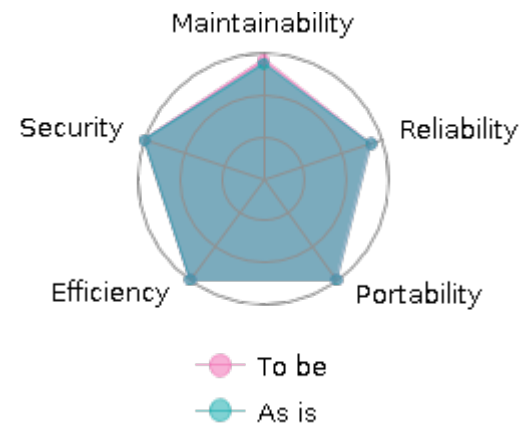
	As is	To be
Risk index	0.00	0.00
Global indicator	96.09	96.85
Effort to target	0 h	0 h



INDICATOR VALUES

You have the model indicators in the current analysis and the ones that you are going to get if you executes this Action Plan.

Global indicator 96.85



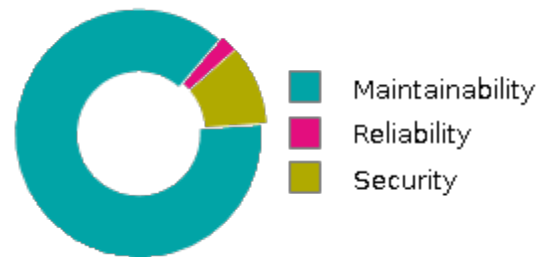
	As is	To be
Maintainability	92.27	95.37
Reliability	91.12	91.17
Portability	100	100
Efficiency	99.88	99.88
Security	99.88	100
Global indicator	96.09	96.85



EFFORT TO SPEND

In this chapter you have a detailed budget of this action plan. You get a breakdown according to the software characteristics defined in CQM model.

Effort to spend 22.2 Hours



Effort to spend

Maintainability	19.4 Hours
Reliability	0.5 Hours
Security	2.3 Hours
Total	22.2 Hours



DETAILED ACTION PLAN

This chapter contains the technical information of the Action Plan. You have a different section for each broken rule.

About each rule you have the number of defects that you have to correct and the number of files that you need to change. In addition you get the software characteristic, the language, the priority (importance) and the difficulty (represents the time you need to apply the change).

Then you can read (in bold) each file that contains defects, and at the end the line number and the text line where you can find the defect.

20 Defect(s)

3 File(s)

Do not update control vars in 'for' loop body

Maintainability
javascript

Priority Very High
Effort 30m

kendo.dataviz.js

```
772 | idx = decimalIndex;
776 | idx += end - decimalIndex + 1;
3254 | i--;
8357 | for (var idx = 0; idx < items.length; idx++) {
70442 | i -= 1;
70443 | j -= 1;
72062 | i--;
```

kendo.mobile.js

```
772 | idx = decimalIndex;
776 | idx += end - decimalIndex + 1;
3254 | i--;
7929 | for (var idx = 0; idx < items.length; idx++) {
```

kendo.web.js

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772	idx = decimalIndex;
776	idx += end - decimalIndex + 1;
3254	i--;
7172	for (var idx = 0; idx < items.length; idx++) {
34187	i -= 1;
34188	j -= 1;
40375	i--;
90870	idx += 1;
95920	i -= 1;

188 Defect(s)

5 File(s)

Avoid unused local variable

Maintainability
javascript

Priority High
Effort 3m

kendo.aspnetmvc.js

```
860  __meta__ = {  
      id: 'aspnetmvc',  
      name: 'ASP.NET MVC',  
      category: 'wrappers',  
      description: 'Scripts required by Telerik UI for ASP.NET MVC',  
      depends: ['data', 'combob(...)']  
    }
```

kendo.dataviz.js

```
28  __meta__ = {  
      id: 'core',  
      name: 'Core',  
      category: 'framework',  
      description: 'The core of the Kendo framework.'}  
  
3810 __meta__ = {  
      id: 'fx',  
      name: 'Effects',  
      category: 'framework',  
      description: 'Required for animation effects in all Kendo UI widgets.',  
      depends: ['core']  
    }
```

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4995	<pre>__meta__ = { id: 'router', name: 'Router', category: 'framework', description: 'The Router class is responsible for tracking the application state and navigating be(...)</pre>
5423	<pre>__meta__ = { id: 'data.odata', name: 'OData', category: 'framework', depends: ['core'], hidden: true}</pre>
5869	<pre>__meta__ = { id: 'data.xml', name: 'XML', category: 'framework', depends: ['core'], hidden: true}</pre>
6057	<pre>__meta__ = { id: 'data', name: 'Data source', category: 'framework', description: 'Powerful component for using local and remote data.Fully supports CRUD, Sorting, (...)</pre>
11025	<pre>__meta__ = { id: 'binder', name: 'MVVM', category: 'framework', description: 'Model View ViewModel (MVVM) is a design pattern which helps developers separate the Mo(...)</pre>
12588	<pre>__meta__ = { id: 'view', name: 'View', category: 'framework', description: 'The View class instantiates and handles the events of a certain screen from the applicat(...)</pre>
13117	<pre>__meta__ = { id: 'data.signalr', name: 'SignalR', category: 'framework', depends: ['data'], hidden: true}</pre>

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13210	<pre>__meta__ = { id: 'userevents', name: 'User Events', category: 'framework', depends: ['core'], hidden: true}</pre>
13692	<pre>__meta__ = { id: 'draganddrop', name: 'Drag & drop', category: 'framework', description: 'Drag & drop functionality for any DOM element.', depends: ['core', 'use(...)']}</pre>
14538	<pre>__meta__ = { id: 'mobile.scroller', name: 'Scroller', category: 'mobile', description: 'The Kendo Mobile Scroller widget enables touch friendly kinetic scrolling fo(...)'</pre>
15069	<pre>__meta__ = { id: 'popup', name: 'Pop-up', category: 'framework', depends: ['core'], advanced: true}</pre>
15655	<pre>__meta__ = { id: 'tooltip', name: 'Tooltip', category: 'web', description: 'The Tooltip widget displays a popup hint for a given html element.', depends: ['core'](...)}</pre>
16055	<pre>__meta__ = { id: 'color', name: 'Color utils', category: 'framework', advanced: true, description: 'Color utilities used across components', depends: ['core']}</pre>

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25548	<pre>__meta__ = { id: 'drawing', name: 'Drawing API', category: 'framework', description: 'The Kendo UI low-level drawing API', depends: ['core', 'color', 'popup']}</pre>
31843	<pre>__meta__ = { id: 'dataviz.core', name: 'Core', description: 'The DataViz core functions', category: 'dataviz', depends: ['core', 'drawing'], hidden: true}</pre>
34733	<pre>__meta__ = { id: 'dataviz.themes', name: 'Themes', description: 'Built-in themes for the DataViz widgets', category: 'dataviz', depends: ['dataviz.core'], hid(...)}</pre>
47779	<pre>__meta__ = { id: 'dataviz.chart', name: 'Chart', category: 'dataviz', description: 'The Chart widget uses modern browser technologies to render high-quality data vi(...)</pre>
49828	<pre>__meta__ = { id: 'dataviz.gauge', name: 'Gauge', category: 'dataviz', description: 'Linear, Radial and Arc gauges.', depends: ['dataviz.core', 'dataviz.themes']}</pre>
49848	<pre>__meta__ = { id: 'dataviz.barcode', name: 'Barcode', category: 'dataviz', description: 'Barcode widget', depends: ['dataviz.core']}</pre>

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51997	<pre>__meta__ = { id: 'dataviz.qrcode', name: 'QRCode', category: 'dataviz', description: 'QRCode widget.', depends: ['dataviz.core', 'drawing']}</pre>
56008	<pre>__meta__ = { id: 'dataviz.stockchart', name: 'StockChart', category: 'dataviz', description: 'StockChart widget and associated financial series.', depends: ['dat(...)]</pre>
56313	<pre>__meta__ = { id: 'dataviz.sparkline', name: 'Sparkline', category: 'dataviz', description: 'Sparkline widgets.', depends: ['dataviz.chart']}</pre>
58845	<pre>__meta__ = { id: 'dataviz.map', name: 'Map', category: 'dataviz', description: 'The Kendo DataViz Map displays spatial data', depends: ['data', 'userevents', 'to(...)]</pre>
67377	<pre>__meta__ = { id: 'toolbar', name: 'ToolBar', category: 'web', description: 'The ToolBar widget displays one or more command buttons divided into groups.', depend(...)]</pre>
68725	<pre>__meta__ = { id: 'list', name: 'List', category: 'framework', depends: ['data', 'popup'], hidden: true}</pre>

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70850	<pre>__meta__ = { id: 'virtuallist', name: 'VirtualList', category: 'framework', depends: ['data'], hidden: true}</pre>
72202	<pre>__meta__ = { id: 'dropdownlist', name: 'DropDownList', category: 'web', description: 'The DropDownList widget displays a list of values and allows the selection of (...)</pre>
73270	<pre>__meta__ = { id: 'selectable', name: 'Selectable', category: 'framework', depends: ['core', 'userevents'], advanced: true}</pre>
73562	<pre>__meta__ = { id: 'calendar', name: 'Calendar', category: 'web', description: 'The Calendar widget renders a graphical calendar that supports navigation and selectio(...)</pre>
74976	<pre>__meta__ = { id: 'dateinput', name: 'DateInput', category: 'web', description: 'The DateInput widget allows to edit date by typing.', depends: ['core']}</pre>
75794	<pre>__meta__ = { id: 'datepicker', name: 'DatePicker', category: 'web', description: 'The DatePicker widget allows the user to select a date from a calendar or by direc(...)</pre>
76341	<pre>__meta__ = { id: 'floatinglabel', name: 'FloatingLabel', category: 'framework', depends: ['core'], hidden: true}</pre>

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76423	<pre>__meta__ = { id: 'numerictextbox', name: 'NumericTextBox', category: 'web', description: 'The NumericTextBox widget can format and display numeric, percentage or cu(...)</pre>
77023	<pre>__meta__ = { id: 'validator', name: 'Validator', category: 'web', description: 'The Validator offers an easy way to do a client-side form validation.', depends: (...)</pre>
77522	<pre>__meta__ = { id: 'editable', name: 'Editable', category: 'framework', depends: ['dropdownlist', 'datepicker', 'numerictextbox', 'validator', 'binder'], hidden: true}</pre>
77858	<pre>__meta__ = { id: 'window', name: 'Window', category: 'web', description: 'The Window widget displays content in a modal or non-modal HTML window.', depends: ['dr(...)</pre>
83526	<pre>__meta__ = { id: 'dataviz.diagram', name: 'Diagram', category: 'dataviz', description: 'The Kendo DataViz Diagram ', depends: ['data', 'useevents', 'mobile.scro(...)</pre>
83571	<pre>__meta__ = { id: 'dataviz.treeMap', name: 'TreeMap', category: 'dataviz', description: 'The Kendo DataViz TreeMap', depends: ['data', 'useevents', 'dataviz.themes']}</pre>

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84351	<pre>__meta__ = { id: 'angular', name: 'AngularJS Directives', category: 'framework', description: 'Adds Kendo UI for AngularJS directives', depends: ['core'], def(...)</pre>
<hr/>	
kendo.mobile.js	
28	<pre>__meta__ = { id: 'core', name: 'Core', category: 'framework', description: 'The core of the Kendo framework.'}</pre>
<hr/>	
3810	<pre>__meta__ = { id: 'fx', name: 'Effects', category: 'framework', description: 'Required for animation effects in all Kendo UI widgets.', depends: ['core']}</pre>
<hr/>	
4995	<pre>__meta__ = { id: 'data.odata', name: 'OData', category: 'framework', depends: ['core'], hidden: true}</pre>
<hr/>	
5441	<pre>__meta__ = { id: 'data.xml', name: 'XML', category: 'framework', depends: ['core'], hidden: true}</pre>
<hr/>	
5629	<pre>__meta__ = { id: 'data', name: 'Data source', category: 'framework', description: 'Powerful component for using local and remote data.Fully supports CRUD, Sorting, (...)</pre>
<hr/>	

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10594	<pre>__meta__ = { id: 'data.signalr', name: 'SignalR', category: 'framework', depends: ['data'], hidden: true}</pre>
10690	<pre>__meta__ = { id: 'binder', name: 'MVVM', category: 'framework', description: 'Model View ViewModel (MVVM) is a design pattern which helps developers separate the Mo(...)</pre>
12249	<pre>__meta__ = { id: 'validator', name: 'Validator', category: 'web', description: 'The Validator offers an easy way to do a client-side form validation.', depends: (...)</pre>
12742	<pre>__meta__ = { id: 'router', name: 'Router', category: 'framework', description: 'The Router class is responsible for tracking the application state and navigating be(...)</pre>
13174	<pre>__meta__ = { id: 'view', name: 'View', category: 'framework', description: 'The View class instantiates and handles the events of a certain screen from the applicat(...)</pre>
13703	<pre>__meta__ = { id: 'userevents', name: 'User Events', category: 'framework', depends: ['core'], hidden: true}</pre>
14185	<pre>__meta__ = { id: 'draganddrop', name: 'Drag & drop', category: 'framework', description: 'Drag & drop functionality for any DOM element.', depends: ['core', 'use(...)</pre>

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15028	<pre>__meta__ = { id: 'popup', name: 'Pop-up', category: 'framework', depends: ['core'], advanced: true}</pre>
15613	<pre>__meta__ = { id: 'touch', name: 'Touch', category: 'mobile', description: 'The kendo Touch widget provides a cross-platform compatible API for handling user-initiat(...)</pre>
15754	<pre>__meta__ = { id: 'mobile.scroller', name: 'Scroller', category: 'mobile', description: 'The Kendo Mobile Scroller widget enables touch friendly kinetic scrolling fo(...)</pre>
16290	<pre>__meta__ = { id: 'mobile.view', name: 'View', category: 'mobile', description: 'Mobile View', depends: ['core', 'fx', 'mobile.scroller', 'view'], hidden: true}</pre>
16819	<pre>__meta__ = { id: 'mobile.loader', name: 'Loader', category: 'mobile', description: 'Mobile Loader', depends: ['core'], hidden: true}</pre>
16898	<pre>__meta__ = { id: 'mobile.pane', name: 'Pane', category: 'mobile', description: 'Mobile Pane', depends: ['mobile.view', 'mobile.loader'], hidden: true}</pre>

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17159	<pre>__meta__ = { id: 'mobile.popover', name: 'PopOver', category: 'mobile', description: 'The mobile PopOver widget represents a transient view which is displayed when (...)</pre>
17364	<pre>__meta__ = { id: 'mobile.shim', name: 'Shim', category: 'mobile', description: 'Mobile Shim', depends: ['popup'], hidden: true}</pre>
17460	<pre>__meta__ = { id: 'mobile.modalview', name: 'ModalView', category: 'mobile', description: 'The Kendo ModalView is used to present self-contained functionality in the(...)</pre>
17563	<pre>__meta__ = { id: 'mobile.drawer', name: 'Drawer', category: 'mobile', description: 'The Kendo Mobile Drawer widget provides slide to reveal global application toolb(...)</pre>
17816	<pre>__meta__ = { id: 'mobile.splitview', name: 'SplitView', category: 'mobile', description: 'The mobile SplitView is a tablet-specific view that consists of two or mor(...)</pre>
17932	<pre>__meta__ = { id: 'mobile.application', name: 'Application', category: 'mobile', description: 'The Mobile application provides a framework to build native looking we(...)</pre>
18363	<pre>__meta__ = { id: 'mobile.actionsheet', name: 'ActionSheet', category: 'mobile', description: 'The mobile ActionSheet widget displays a set of choices related to a t(...)</pre>

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18491	<pre>__meta__ = { id: 'mobile.button', name: 'Button', category: 'mobile', description: 'The Button widget navigates between mobile Application views when pressed.', (...) }</pre>
18689	<pre>__meta__ = { id: 'mobile.buttongroup', name: 'ButtonGroup', category: 'mobile', description: 'The Kendo mobile ButtonGroup widget is a linear set of grouped buttons(...)' }</pre>
18797	<pre>__meta__ = { id: 'mobile.collapsible', name: 'Collapsible', category: 'mobile', description: 'The Kendo mobile Collapsible widget provides ability for creating coll(...)' }</pre>
18942	<pre>__meta__ = { id: 'mobile.listview', name: 'ListView', category: 'mobile', description: 'The Kendo Mobile ListView widget is used to display flat or grouped list of (...)' }</pre>
19915	<pre>__meta__ = { id: 'mobile.navbar', name: 'NavBar', category: 'mobile', description: 'The Kendo mobile NavBar widget is used inside a mobile View or Layout Header ele(...)' }</pre>
19976	<pre>__meta__ = { id: 'mobile.scrollview', name: 'ScrollView', category: 'mobile', description: 'The Kendo Mobile ScrollView widget is used to scroll content wider than (...)' }</pre>
20655	<pre>__meta__ = { id: 'mobile.switch', name: 'Switch', category: 'mobile', description: 'The mobile Switch widget is used to display two exclusive choices.', depends:(...) }</pre>

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20832	<pre>__meta__ = { id: 'mobile.tabstrip', name: 'TabStrip', category: 'mobile', description: 'The mobile TabStrip widget is used inside a mobile view or layout footer ele(...)</pre>
20955	<pre>__meta__ = { id: 'angular', name: 'AngularJS Directives', category: 'framework', description: 'Adds Kendo UI for AngularJS directives', depends: ['core'], def(...)</pre>
kendo.timezones.js	
28	<pre>__meta__ = { id: 'timezones', name: 'Timezones', category: 'framework', depends: ['core'], hidden: true}</pre>
kendo.web.js	
28	<pre>__meta__ = { id: 'core', name: 'Core', category: 'framework', description: 'The core of the Kendo framework.'}</pre>
3810	<pre>__meta__ = { id: 'router', name: 'Router', category: 'framework', description: 'The Router class is responsible for tracking the application state and navigating be(...)</pre>
4238	<pre>__meta__ = { id: 'data.odata', name: 'OData', category: 'framework', depends: ['core'], hidden: true}</pre>

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4684	<pre>__meta__ = { id: 'data.xml', name: 'XML', category: 'framework', depends: ['core'], hidden: true}</pre>
4872	<pre>__meta__ = { id: 'data', name: 'Data source', category: 'framework', description: 'Powerful component for using local and remote data.Fully supports CRUD, Sorting, (...)</pre>
9840	<pre>__meta__ = { id: 'binder', name: 'MVVM', category: 'framework', description: 'Model View ViewModel (MVVM) is a design pattern which helps developers separate the Mo(...)</pre>
11399	<pre>__meta__ = { id: 'fx', name: 'Effects', category: 'framework', description: 'Required for animation effects in all Kendo UI widgets.', depends: ['core']}</pre>
12588	<pre>__meta__ = { id: 'view', name: 'View', category: 'framework', description: 'The View class instantiates and handles the events of a certain screen from the applicat(...)</pre>
13117	<pre>__meta__ = { id: 'dom', name: 'Virtual DOM', category: 'framework', depends: ['core'], advanced: true}</pre>
14571	<pre>__meta__ = { id: 'ooxml', name: 'XLSX generation', category: 'framework', advanced: true, depends: ['core']}</pre>

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15191	<pre>__meta__ = { id: 'excel', name: 'Excel export', category: 'framework', advanced: true, mixin: true, depends: ['data', 'ooxml']}</pre>
15208	<pre>__meta__ = { id: 'data.signalr', name: 'SignalR', category: 'framework', depends: ['data'], hidden: true}</pre>
15321	<pre>__meta__ = { id: 'color', name: 'Color utils', category: 'framework', advanced: true, description: 'Color utilities used across components', depends: ['core']}</pre>
24359	<pre>__meta__ = { id: 'popup', name: 'Pop-up', category: 'framework', depends: ['core'], advanced: true}</pre>
25396	<pre>__meta__ = { id: 'drawing', name: 'Drawing API', category: 'framework', description: 'The Kendo UI low-level drawing API', depends: ['core', 'color', 'popup']}</pre>
25413	<pre>__meta__ = { id: 'validator', name: 'Validator', category: 'web', description: 'The Validator offers an easy way to do a client-side form validation.', depends: (...)}</pre>

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25906	<pre>__meta__ = { id: 'userevents', name: 'User Events', category: 'framework', depends: ['core'], hidden: true}</pre>
26388	<pre>__meta__ = { id: 'draganddrop', name: 'Drag & drop', category: 'framework', description: 'Drag & drop functionality for any DOM element.', depends: ['core', 'use(...)']}</pre>
27234	<pre>__meta__ = { id: 'mobile.scroller', name: 'Scroller', category: 'mobile', description: 'The Kendo Mobile Scroller widget enables touch friendly kinetic scrolling fo(...)'</pre>
27768	<pre>__meta__ = { id: 'groupable', name: 'Groupable', category: 'framework', depends: ['core', 'draganddrop'], advanced: true}</pre>
28111	<pre>__meta__ = { id: 'reorderable', name: 'Reorderable', category: 'framework', depends: ['core', 'draganddrop'], advanced: true}</pre>
28302	<pre>__meta__ = { id: 'resizable', name: 'Resizable', category: 'framework', depends: ['core', 'draganddrop'], advanced: true}</pre>
28429	<pre>__meta__ = { id: 'sortable', name: 'Sortable', category: 'framework', depends: ['draganddrop']}</pre>

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28840	<pre>__meta__ = { id: 'selectable', name: 'Selectable', category: 'framework', depends: ['core', 'userevents'], advanced: true}</pre>
29840	<pre>__meta__ = { id: 'chat', name: 'Chat', category: 'web', description: 'The Chat component.', depends: ['core', 'draganddrop']}</pre>
30057	<pre>__meta__ = { id: 'badge', name: 'Badge', category: 'web', description: 'The Badge decorates avatars, navigation menus, or other components in the application when v(...)</pre>
30310	<pre>__meta__ = { id: 'button', name: 'Button', category: 'web', description: 'The Button widget displays styled buttons.', depends: ['core', 'badge']}</pre>
30499	<pre>__meta__ = { id: 'buttongroup', name: 'ButtonGroup', category: 'web', description: 'The Kendo ButtonGroup widget is a linear set of grouped buttons.', depends: [...]</pre>
30774	<pre>__meta__ = { id: 'breadcrumb', name: 'Breadcrumb', category: 'web', description: 'The Breadcrumb widget displays navigation breadcrumb.', depends: ['core']}</pre>
31140	<pre>__meta__ = { id: 'switch', name: 'Switch', category: 'web', description: 'The Switch widget is used to display two exclusive choices.', depends: ['core']}</pre>

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31345	<pre>__meta__ = { id: 'pager', name: 'Pager', category: 'framework', depends: ['data'], advanced: true}</pre>
31716	<pre>__meta__ = { id: 'notification', name: 'Notification', category: 'web', description: 'The Notification widget displays user alerts.', depends: ['core', 'popup'],(...)}</pre>
32087	<pre>__meta__ = { id: 'tooltip', name: 'Tooltip', category: 'web', description: 'The Tooltip widget displays a popup hint for a given html element.', depends: ['core'](...)}</pre>
32470	<pre>__meta__ = { id: 'list', name: 'List', category: 'framework', depends: ['data', 'popup'], hidden: true}</pre>
34598	<pre>__meta__ = { id: 'calendar', name: 'Calendar', category: 'web', description: 'The Calendar widget renders a graphical calendar that supports navigation and selectio(...)'}</pre>
36012	<pre>__meta__ = { id: 'dateinput', name: 'DateInput', category: 'web', description: 'The DateInput widget allows to edit date by typing.', depends: ['core']}</pre>
36830	<pre>__meta__ = { id: 'datepicker', name: 'DatePicker', category: 'web', description: 'The DatePicker widget allows the user to select a date from a calendar or by direc(...)'}</pre>

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37377	<pre>__meta__ = { id: 'drawer', name: 'Drawer', category: 'web', description: 'The Kendo Drawer widget provides slide to reveal sidebar', depends: ['usevents']}</pre>
37735	<pre>__meta__ = { id: 'multiviewcalendar', name: 'MultiViewCalendar', category: 'web', description: 'Multi-view calendar.', depends: ['core', 'selectable', 'calendar']}</pre>
39163	<pre>__meta__ = { id: 'virtuallist', name: 'VirtualList', category: 'framework', depends: ['data'], hidden: true}</pre>
40515	<pre>__meta__ = { id: 'autocomplete', name: 'AutoComplete', category: 'web', description: 'The AutoComplete widget provides suggestions depending on the typed text.It al(...)</pre>
41121	<pre>__meta__ = { id: 'dropdownlist', name: 'DropDownList', category: 'web', description: 'The DropDownList widget displays a list of values and allows the selection of (...)</pre>
42189	<pre>__meta__ = { id: 'treeview.draganddrop', name: 'Hierarchical Drag & Drop', category: 'framework', depends: ['core', 'draganddrop'], advanced: true}</pre>
42398	<pre>__meta__ = { id: 'treeview', name: 'TreeView', category: 'web', description: 'The TreeView widget displays hierarchical data in a traditional tree structure,with su(...)</pre>

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44281	<pre>__meta__ = { id: 'dropdownntree', name: 'DropDownTree', category: 'web', description: 'The DropDownTree widget displays a hierarchy of items and allows the selection(...)</pre>
45926	<pre>__meta__ = { id: 'combobox', name: 'ComboBox', category: 'web', description: 'The ComboBox widget allows the selection from pre-defined values or entering a new val(...)</pre>
46800	<pre>__meta__ = { id: 'multiselect', name: 'MultiSelect', category: 'web', description: 'The MultiSelect widget allows the selection from pre-defined values.', depend(...)</pre>
48010	<pre>__meta__ = { id: 'multicolumncombobox', name: 'MultiColumnComboBox', category: 'web', description: 'The MultiColumnComboBox widget allows the selection from pre-def(...)</pre>
48094	<pre>__meta__ = { id: 'slider', name: 'Slider', category: 'web', description: 'The Slider widget provides a rich input for selecting values or ranges of values.', dep(...)</pre>
49299	<pre>__meta__ = { id: 'colorpicker', name: 'Color tools', category: 'web', description: 'Color selection widgets', depends: ['core', 'color', 'popup', 'slider', 'user(...)</pre>
50075	<pre>__meta__ = { id: 'floatinglabel', name: 'FloatingLabel', category: 'framework', depends: ['core'], hidden: true}</pre>

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50157	<pre>__meta__ = { id: 'numerictextbox', name: 'NumericTextBox', category: 'web', description: 'The NumericTextBox widget can format and display numeric, percentage or cu(...)</pre>
50762	<pre>__meta__ = { id: 'filtermenu', name: 'Filtering Menu', category: 'framework', depends: ['datepicker', 'numerictextbox', 'dropdownlist', 'binder'], advanced: true}</pre>
51836	<pre>__meta__ = { id: 'menu', name: 'Menu', category: 'web', description: 'The Menu widget displays hierarchical data as a multi-level menu.', depends: ['popup', 'dat(...)</pre>
53870	<pre>__meta__ = { id: 'columnmenu', name: 'Column Menu', category: 'framework', depends: ['popup', 'filtermenu', 'menu'], advanced: true}</pre>
54726	<pre>__meta__ = { id: 'columnsorter', name: 'Column Sorter', category: 'framework', depends: ['core'], advanced: true}</pre>
54918	<pre>__meta__ = { id: 'editable', name: 'Editable', category: 'framework', depends: ['dropdownlist', 'datepicker', 'numerictextbox', 'validator', 'binder'], hidden: true}</pre>
55254	<pre>__meta__ = { id: 'window', name: 'Window', category: 'web', description: 'The Window widget displays content in a modal or non-modal HTML window.', depends: ['dr(...)</pre>

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56747	<pre>__meta__ = { id: 'pane', name: 'Pane', category: 'web', description: 'Pane', depends: ['view'], hidden: true}</pre>
56918	<pre>__meta__ = { id: 'progressbar', name: 'ProgressBar', category: 'web', description: 'The ProgressBar offers rich functionality for displaying and tracking progress',(...)}</pre>
61160	<pre>__meta__ = { id: 'pdf', name: 'PDF export', description: 'PDF Generation framework', mixin: true, category: 'framework', depends: ['core', 'drawing']}</pre>
61180	<pre>__meta__ = { id: 'dialog', name: 'Dialog', category: 'web', description: 'The dialog widget is a modal popup that brings information to the user.', depends: ['co(...)]}</pre>
62004	<pre>__meta__ = { id: 'grid', name: 'Grid', category: 'web', description: 'The Grid widget displays tabular data and offers rich support for interacting with data,includ(...)}</pre>
70223	<pre>__meta__ = { id: 'listview', name: 'ListView', category: 'web', description: 'The ListView widget offers rich support for interacting with data.', depends: ['dat(...)]}</pre>
70885	<pre>__meta__ = { id: 'listbox', name: 'ListBox', category: 'web', depends: ['draganddrop', 'data', 'selectable']}</pre>

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72235	<pre>__meta__ = { id: 'upload', name: 'Upload', category: 'web', description: 'The Upload widget uses progressive enhancement to deliver the best possible uploading expe(...)</pre>
74133	<pre>__meta__ = { id: 'filebrowser', name: 'FileBrowser', category: 'web', description: "", hidden: true, depends: ['selectable', 'listview', 'dropdownlist', 'uplo(...)</pre>
74805	<pre>__meta__ = { id: 'imagebrowser', name: 'ImageBrowser', category: 'web', description: "", hidden: true, depends: ['filebrowser']}</pre>
88697	<pre>__meta__ = { id: 'tabstrip', name: 'TabStrip', category: 'web', description: 'The TabStrip widget displays a collection of tabs with associated tab content.', de(...)</pre>
90290	<pre>__meta__ = { id: 'editor', name: 'Editor', category: 'web', description: 'Rich text editor component', depends: ['combobox', 'dropdownlist', 'window', 'colorpick(...)</pre>
90345	<pre>__meta__ = { id: 'maskedtextbox', name: 'MaskedTextBox', category: 'web', description: 'The MaskedTextBox widget allows to specify a mask type on an input field.', (...)</pre>

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90902	<pre>__meta__ = { id: 'toolbar', name: 'ToolBar', category: 'web', description: 'The ToolBar widget displays one or more command buttons divided into groups.', depend(...)</pre>
92252	<pre>__meta__ = { id: 'mediaplayer', name: 'MediaPlayer', category: 'web', description: "", depends: ['slider', 'toolbar', 'dropdownlist', 'tooltip']}</pre>
92736	<pre>player = new window.YT.Player(this.wrapper.find(DOT + YTPLAYER)[0], { height: this.wrapper.height(), width: this.wrapper.width(), videoId: this._getMediaId(), playe(...)</pre>
93145	<pre>__meta__ = { id: 'pivotgrid', name: 'PivotGrid', category: 'web', description: 'The PivotGrid widget is a data summarization tool.', depends: ['dom', 'data', 'da(...)</pre>
97284	<pre>__meta__ = { id: 'pivot.fieldmenu', name: 'PivotFieldMenu', category: 'web', description: 'The PivotFieldMenu widget allows the user to filter on fields displayed i(...)</pre>
97670	<pre>__meta__ = { id: 'filter', name: 'Filter', category: 'web', depends: ['core', 'buttongroup']}</pre>
98245	<pre>__meta__ = { id: 'filtercell', name: 'Row filter', category: 'framework', depends: ['autocomplete'], advanced: true}</pre>

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98674	<pre>__meta__ = { id: 'panelbar', name: 'PanelBar', category: 'web', description: 'The PanelBar widget displays hierarchical data as a multi-level expandable panel bar.'(...) }</pre>
99914	<pre>__meta__ = { id: 'responsive-panel', name: 'Responsive Panel', category: 'web', description: 'The Responsive Panel widget allows a panel of content to be hidden on (...)' }</pre>
100024	<pre>__meta__ = { id: 'timepicker', name: 'TimePicker', category: 'web', description: 'The TimePicker widget allows the end user to select a value from a list of predefi(...)' }</pre>
101317	<pre>__meta__ = { id: 'datetimepicker', name: 'DateTimePicker', category: 'web', description: 'The DateTimePicker allows the end user to select a value from a calendar o(...)' }</pre>
102095	<pre>__meta__ = { id: 'daterangepicker', name: 'DateRangePicker', category: 'web', description: 'Date range picker.', depends: ['core', 'multiviewcalendar', 'datepicker']} }</pre>
102562	<pre>__meta__ = { id: 'scrollview', name: 'ScrollView', category: 'web', description: 'The Kendo ScrollView widget is used to scroll content wider than the device screen(...)' }</pre>
103458	<pre>__meta__ = { id: 'splitter', name: 'Splitter', category: 'web', description: 'The Splitter widget provides an easy way to create a dynamic layout of resizable and c(...)' }</pre>

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103948	<pre>__meta__ = { id: 'scheduler.view', name: 'Scheduler View', category: 'web', description: 'The Scheduler Common View', depends: ['core'], hidden: true}</pre>
106079	<pre>__meta__ = { id: 'scheduler.dayview', name: 'Scheduler Day View', category: 'web', description: 'The Scheduler Day View', depends: ['scheduler.view'], hidden:(...)</pre>
107686	<pre>__meta__ = { id: 'scheduler.agendaview', name: 'Scheduler Agenda View', category: 'web', description: 'The Scheduler Agenda View', depends: ['scheduler.view'], (...)</pre>
108287	<pre>__meta__ = { id: 'scheduler.monthview', name: 'Scheduler Month View', category: 'web', description: 'The Scheduler Month View', depends: ['scheduler.view'], h(...)</pre>
109599	<pre>__meta__ = { id: 'scheduler.recurrence', name: 'Recurrence', category: 'web', depends: ['dropdownlist', 'datepicker', 'numerictextbox'], hidden: true}</pre>
112013	<pre>__meta__ = { id: 'scheduler.timelineview', name: 'Scheduler Timeline View', category: 'web', description: 'The Scheduler Timeline View', depends: ['scheduler.vie(...)</pre>

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113960	<pre>__meta__ = { id: 'scheduler', name: 'Scheduler', category: 'web', description: 'The Scheduler is an event calendar.', depends: ['dropdownlist', 'editable', 'mult(...)]</pre>
117913	<pre>__meta__ = { id: 'touch', name: 'Touch', category: 'mobile', description: 'The kendo Touch widget provides a cross-platform compatible API for handling user-initiat(...]</pre>
118058	<pre>__meta__ = { id: 'gantt.list', name: 'Gantt List', category: 'web', description: 'The Gantt List', depends: ['dom', 'touch', 'draganddrop', 'columnsorter', 'date(...)]</pre>
118981	<pre>__meta__ = { id: 'gantt.timeline', name: 'Gantt Timeline', category: 'web', description: 'The Gantt Timeline', depends: ['dom', 'touch', 'draganddrop'], hidde(...]</pre>
121168	<pre>__meta__ = { id: 'gantt', name: 'Gantt', category: 'web', description: 'The Gantt component.', depends: ['data', 'popup', 'resizable', 'window', 'gantt.list', 'g(...)]</pre>
124000	<pre>__meta__ = { id: 'timeline', name: 'Timeline', category: 'web', description: 'The Kendo Timeline widget display events over time', depends: ['userevents']}]</pre>
124735	<pre>__meta__ = { id: 'treelist', name: 'TreeList', category: 'web', description: 'The TreeList widget displays self-referencing data and offers rich support for interac(...]</pre>

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161887	<pre>__meta__ = { id: 'spreadsheet', name: 'Spreadsheet', category: 'web', description: 'Spreadsheet component', depends: ['core', 'binder', 'colorpicker', 'combobox'(...)] }</pre>
162387	<pre>__meta__ = { id: 'pivot.configurator', name: 'PivotConfigurator', category: 'web', depends: ['dropdownlist', 'treeview', 'pivot.fieldmenu'], hidden: true }</pre>
162921	<pre>__meta__ = { id: 'ripplecontainer', name: 'RippleContainer', category: 'web', depends: ['core']} }</pre>
163013	<pre>__meta__ = { id: 'pdfjs-processor', name: 'PDFJS-Processor', category: 'framework', depends: ['core']} }</pre>
163129	<pre>__meta__ = { id: 'dpl-processor', name: 'DPL-Processor', category: 'framework', depends: ['core']} }</pre>
164815	<pre>__meta__ = { id: 'pdfviewer', name: 'PDFViewer', category: 'web', description: 'PDFViewer to display pdfs in the browser', depends: ['core', 'window', 'dialog', (...)] }</pre>
165445	<pre>__meta__ = { id: 'rating', name: 'Rating', category: 'web', description: 'The Rating component.', depends: ['core']} }</pre>

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165955	<pre>__meta__ = { id: 'angular', name: 'AngularJS Directives', category: 'framework', description: 'Adds Kendo UI for AngularJS directives', depends: ['core'], def(...)</pre>
168552	<pre>__meta__ = { id: 'filemanager', name: 'FileManager', category: 'web', description: 'The FileManager widget displays offers file management functionality.', depen(...)</pre>
169410	<pre>__meta__ = { id: 'stepper', name: 'Stepper', category: 'web', description: 'The Stepper widget displays navigation steps.', depends: ['core', 'progressbar']}</pre>
170184	<pre>__meta__ = { id: 'textbox', name: 'TextBox', category: 'web', description: 'The TextBox widget enables you to style and provide a floating label functionality to in(...)</pre>
170342	<pre>__meta__ = { id: 'form', name: 'Form', category: 'web', description: 'The Form widget.', depends: ['editable'], features: [{ id: 'form-dropdowns', name: (...)</pre>
170812	<pre>__meta__ = { id: 'tilelayout', name: 'TileLayout', category: 'web', depends: ['core']}</pre>

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5 Defect(s)

1 File(s)

Avoid accessing unreliable variable properties

Reliability
javascript

Priority High
Effort 6m

kendo.web.js

```
104193 } while (!start.inRange && startTime >= start.slot.end);
104202 } while (!end.inRange && endTime <= end.slot.start);
136337 for (var vi = 0; vi < values.length; vi++) {
142539 ref.col++;
142540 ref = ref.toString();
```

14 Defect(s)

3 File(s)

Potential denial-of-service attack through malicious regular expression (ReDoS)

Security
javascript

Priority Very High
Effort 6m

kendo.dataviz.js

```
77031 /^((https?|ftp):\/\/|(((\[[a-z]\d|\.[a-z]\d|~|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])|(%[\da-f]{2})|[!$&'()*+,-;=:]|@)?((\d|[1-9]\d|1\d\d|2[0-4]\d|25[0-5])\.\d|[1-9]\d|1(...))
77031 /^[a-zA-Z0-9.!#$%&'**+\/=?^_`{|}~-]+@[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-zA-Z0-9])?(?:\.[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-zA-Z0-9])?)*$/i
78396 /\bk-i(-\w+)+\b/
```

kendo.mobile.js

```
12257 /^((https?|ftp):\/\/|(((\[[a-z]\d|\.[a-z]\d|~|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])|(%[\da-f]{2})|[!$&'()*+,-;=:]|@)?((\d|[1-9]\d|1\d\d|2[0-4]\d|25[0-5])\.\d|[1-9]\d|1(...))
12257 /^[a-zA-Z0-9.!#$%&'**+\/=?^_`{|}~-]+@[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-zA-Z0-9])?(?:\.[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-zA-Z0-9])?)*$/i
```

kendo.web.js

```
25421 /^((https?|ftp):\/\/|(((\[[a-z]\d|\.[a-z]\d|~|[\u00A0-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF])|(%[\da-f]{2})|[!$&'()*+,-;=:]|@)?((\d|[1-9]\d|1\d\d|2[0-4]\d|25[0-5])\.\d|[1-9]\d|1(...))
25421 /^[a-zA-Z0-9.!#$%&'**+\/=?^_`{|}~-]+@[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-zA-Z0-9])?(?:\.[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-zA-Z0-9])?)*$/i
55792 /\bk-i(-\w+)+\b/
63123 /(display\s*:\s*none\s*?)*$/gi
77613 /(.*?[-#\\*\\w]+(?:\\[0-9a-z_-\\])?\\s*\\s*((?:'?:\\'|.*?'(?:\\'|.)*?'\\'\\[\\^\\])*\\[\\^;:])+)/g
84872 /(<br>\\s&nbsp;)*+(<\\?\\(div|p|li|col|t))/gi
```

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85003	/(?: [\s\r\n]+)*(<\/?(h[1-6] hr p div table tbody thead tfoot th tr td li ol ul caption address pre form blockquote dl dt dd dir fieldset))([>]*>)(?: [\s(...)
85021	/(<br[^>]*>)+\s*\$/gi
148471	/^([#0?]+)(?:,[#0?]+)+/

6 Defect(s)

3 File(s)

Never use JavaScript 'history' object or navigation-based positioning functions

Security
javascript

Priority Very High
Effort 6m

kendo.dataviz.js

1786	support.pushState = window.history && window.history.pushState;
5004	var kendo = window.kendo, CHANGE = 'change', BACK = 'back', SAME = 'same', support = kendo.support, location = window.location, history = window.history, CHECK_URL_INTERVAL = 50, BROKEN_BACK_NAV = kendo.support.browser.msie, hashStrip = /^#*/, document = window.document;

kendo.mobile.js

1786	support.pushState = window.history && window.history.pushState;
12751	var kendo = window.kendo, CHANGE = 'change', BACK = 'back', SAME = 'same', support = kendo.support, location = window.location, history = window.history, CHECK_URL_INTERVAL = 50, BROKEN_BACK_NAV = kendo.support.browser.msie, hashStrip = /^#*/, document = window.document;

kendo.web.js

1786	support.pushState = window.history && window.history.pushState;
3819	var kendo = window.kendo, CHANGE = 'change', BACK = 'back', SAME = 'same', support = kendo.support, location = window.location, history = window.history, CHECK_URL_INTERVAL = 50, BROKEN_BACK_NAV = kendo.support.browser.msie, hashStrip = /^#*/, document = window.document;

3 Defect(s)

3 File(s)

Standard pseudo-random number generators cannot withstand cryptographic attacks

Security
javascript

Priority Normal
Effort 6m

kendo.dataviz.js

2141	math.random()
------	---------------

kendo.mobile.js

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2141 | math.random()

kendo.web.js

2141 | math.random()



THANK YOU!

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