BluePrint® SPA

Front-End Architecture

Artifact Management

Editor Panel

Version: first draft - in progress

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# Overview

A hierarchical tree grid is currently used in Blueprint’s SilverLight editor panel to show:

Project contents

Baseline and Reviews

Collections

Based on the feedback we received from PMs, our customers are happy with current set of its features and we should minimize introducing too many changes and do not cut any feature that they currently have.

# Current Features of TreeGrid

1. Column Sorting
   1. Internal Sorting (client side)
   2. External Sorting (server side)
2. Column Filtering
   1. Internal
   2. External
3. Column Width Adjustment
4. Dragging
   1. Column dragging
   2. Row dragging
      1. Single Row
      2. Multi-Row
5. Row Selection
   1. Single Selection / to choose context
   2. Multi-Selection
   3. Checkbox Selection on first Column
6. Cell Editing / Cell Selection
7. Hierarchical / TreeGrid
8. Tooltip
   1. Table Cell
   2. Header Cell
   3. While dragging rows
9. Context Menu
   1. On Row
   2. On Header
10. Show icons in cell
11. Show RichText in cells
12. Dynamically Add Row
    1. Same Level
    2. Child Level
13. Dynamically Add Column
14. Cut/Copy/Paste
    1. Single Row
    2. Multi Rows
15. i18n support
16. Keyboard Navigation
17. Grid Scrolling
    1. Fixed Header
18. Large Data Sets / Lazy Loading of grid
    1. On node expansion
    2. On scroll
19. Scroll
    1. Infinite Scrolling
    2. Pagination (?)
20. Auto Resizing
21. Two way data binding

TODO – expand on feature set

# Nice to have features

1. Pinning
   1. Frozen column
   2. Frozen Rows
2. Quick Search/Filter – multi column
3. Column Grouping with expand/collapse

TODO – expand on feature set

# AngularJs TreeGrids from 3rd Parties

1. ui-grid / ng-grid <http://ui-grid.info>
2. ag-grid: <http://www.angulargrid.com/>
3. wijmo5 grid: <http://demos.componentone.com/wijmo/5/Angular/Explorer/Explorer/#/grid/intro>
4. jqxgrid: <http://www.jqwidgets.com/jquery-widgets-demo/demos/jqxgrid/index.htm>
5. Kendo-UI grid: <http://www.telerik.com/kendo-ui/grid> (doesn’t support hierachical tree)

TODO - compare feature set / pro-cons and decide whether to write our own tree-grid from scratch or use one of these 3rd party widgets.