

2021 - present

# Angular/TypeScript

REUSABLE COMPONENTS, SERVICES, HELPERS & DEVEXTREME  
EXTENSIONS  
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## Pagination

This component allows developers to add pagination features to a screen with ease; the component allows developers to configure the number of pages, start page, last page, current page and the maximum number of pages to display before displaying arrows as shown below:



```
<Pagination [numberOfPages]="numberOfPages" [startPage]="startPage" [lastPage]="lastPage"
    [currentPage]="currentPage" [maxNumberOfPagesToShowOnEachRequest]="maxNumberOfPagesToShowOnEachRequest">
</Pagination>
```

## DevExtreme Extensions

Expand Collapse Panel

This component allows developers to define a collapsible panel onto which they can drop components into; the panel will have an arrow to expand/collapse the panel.

On Expansion:

On Collapse:

To declare the panel:

```
<ExpandCollapsePanel>
|   <!-- Your Content Here -->
</ExpandCollapsePanel>
```

## Pivot Grid

To define a pivot grid, developers may use DevExtreme's `dx-pivot-grid` component. However, using the Pivot Grid Component that I have built will provide more features such as notification that the pivot grid has loaded, as well as enabling arrow-key navigation. This feature allows users to click on a cell and use their arrow keys on their keyboard to navigate the cells in the grid, thus bridging the gap between Excel and DevExtreme's pivot grid! The component also allows developers to distinguish between a saved grid state from an unsaved grid state. Please note that this component is a wrapper component for the `dx-pivot-grid`.

	2019	2018	2017	Grand Total
• Africa	\$65,626	\$65,229	\$10,000	\$140,855
• Australia	\$421,475	\$76,130	\$42,270	\$539,875
• Brazil - Domestic	<b>\$97,846</b>	\$432,489	\$18,212	\$1,048,547
• Asia	\$108,190	\$200,886	\$771,348	\$1,080,424
• Europe - Domestic	\$128,665	\$304,325	\$72,838	\$1,005,775
• Europe	\$210,110	\$214,412	\$60,010	\$484,532
Grand Total	\$976,906	\$883,559	\$182,700	\$3,043,165

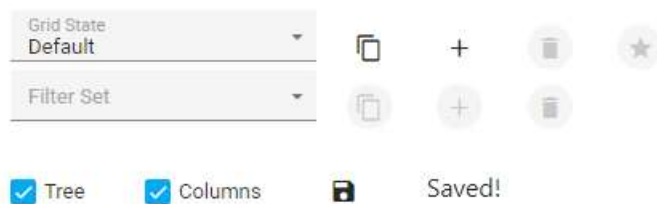
```

<PivotGrid pivotGridId="examplePivotGrid" [allowSortingBySummary]="true" [allowSorting]="true" [allowFiltering]="true"
[allowExpandAll]="true" [showBorders]="true"
[pivotGridDataSource]="pivotGridDataSource" [rowHeaderLayout]="gridLayout"
[exportEnabled]="true" fileName="Sales" [fieldChooserEnabled]="true"
[showDataFields]="true" [showRowFields]="true" [showColumnFields]="true" [showFilterFields]="true"
[allowFieldDragging]="true" [fieldPanelVisible]="showColumns"
[allowCellNavigationUsingKeyboard]="true" (hasLoadedEvent)="pivotGridLoaded($event)">
</PivotGrid>

```

## Pivot Grid Configuration Panel

There components have been built for the Pivot Grid Component, which I will outline below. Firstly, it is good to be aware of the Pivot Grid Configuration Panel component which allows developers to drop the components into.



```

<PivotGridConfigurationPanel [pivotGrid]="pivotGrid">
  <PivotGridStateFeatures gridStateFeatures [pivotGrid]="pivotGrid" positionOfIcons="bottom"
    [populateGridStateList]="getGridStatesBasedOnUserFromDb" [saveAsNewGridState]="saveNewGridStateToDb"
    [deleteGridState]="deleteGridStateFromDb" [setGridStateAsDefault]="saveGridStateAsDefaultToDb"
    [getDefaultGridStateBasedOnUser]="getDefaultGridStateBasedOnUserFromDb"
    [getGridStateById]="getGridStateBasedOnIdFromDb" labelMode="floating"></PivotGridStateFeatures>

  <br />

  <PivotGridFilterSetFeatures filterSetFeatures [pivotGrid]="pivotGrid" [filtersInUseStatus]="filtersInUseStatus"
    [queryString]="queryString" [populateFilterSetList]="getFilterSetsBasedOnUserFromDb"
    [queryStringToObject]="queryStringToObject" (queryObjectEvent)="onGetForecast($event)"
    [saveAsNewFilterSet]="saveNewFilterSetToDb" [deleteFilterSet]="deleteFilterSetFromDb"
    [getFilterSetById]="getFilterSetBasedOnIdFromDb" labelMode="floating"></PivotGridFilterSetFeatures>

  <div style="width:100%">
    <PivotGridSimpleConfigurations simpleConfig [pivotGrid]="pivotGrid"
      [allowUsersToSwitchBetweenGridLayouts]="true" [allowUsersToShowHideColumns]="true">
    </PivotGridSimpleConfigurations>
  </div>
</PivotGridConfigurationPanel>

```

## Grid State Feature

This component provides the following features:

- Users can save grid states
- Users can switch between grid states
- Users can delete saved grid states
- Users can set a saved grid state as their default grid state
- Users can copy link to a saved grid state

The component involves a heavy use of delegates and properties, making it a flexible and reusable solution for any Pivot Grid.

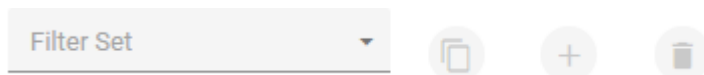


```
<PivotGridStateFeatures gridStateFeatures [pivotGrid]="pivotGrid" positionOfIcons="bottom"
  [populateGridStateList]="getGridStatesBasedOnUserFromDb" [saveAsNewGridState]="saveNewGridStateToDb"
  [deleteGridState]="deleteGridStateFromDb" [setGridStateAsDefault]="saveGridStateAsDefaultToDb"
  [getDefaultGridStateBasedOnUser]="getDefaultGridStateBasedOnUserFromDb"
  [getGridStateById]="getGridStateBasedOnIdFromDb" labelMode="Floating"></PivotGridStateFeatures>
```

## Filter Set Feature

This component provides the following features:

- Users can save filter sets
- Users can switch between filter sets
- Users can delete saved filter sets
- Users can copy link to a saved filter set

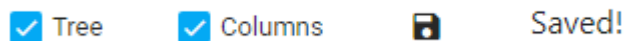


```
<PivotGridFilterSetFeatures filterSetFeatures [pivotGrid]="pivotGrid" [filtersInUseStatus]="filtersInUseStatus"
  [queryString]="queryString" [populateFilterSetList]="getFilterSetsBasedOnUserFromDb"
  [queryStringToObject]="queryStringToObject" {queryObjectEvent}="onGetForecast($event)"
  [saveAsNewFilterSet]="saveNewFilterSetToDb" [deleteFilterSet]="deleteFilterSetFromDb"
  [getFilterSetById]="getFilterSetBasedOnIdFromDb" labelMode="floating"></PivotGridFilterSetFeatures>
```

## Simple Configurations

This component provides the following features:

- Users can switch between standard and tree layout
- Users can show/hide columns
- Users can save these configurations



```
<PivotGridSimpleConfigurations simpleConfig [pivotGrid]="pivotGrid"
  [allowUsersToSwitchBetweenGridLayouts]="true" [allowUsersToShowHideColumns]="true">
</PivotGridSimpleConfigurations>
```