

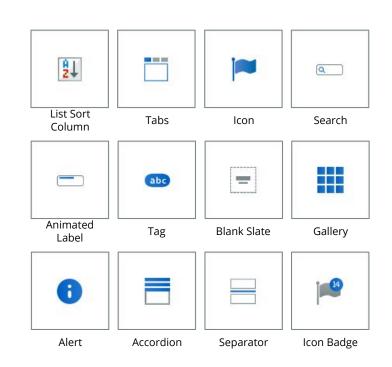
# **Topics**

- OutSystems UI
  - UI Patterns
- RichWidgets
  - List\_Navigation
  - List\_SortColumn

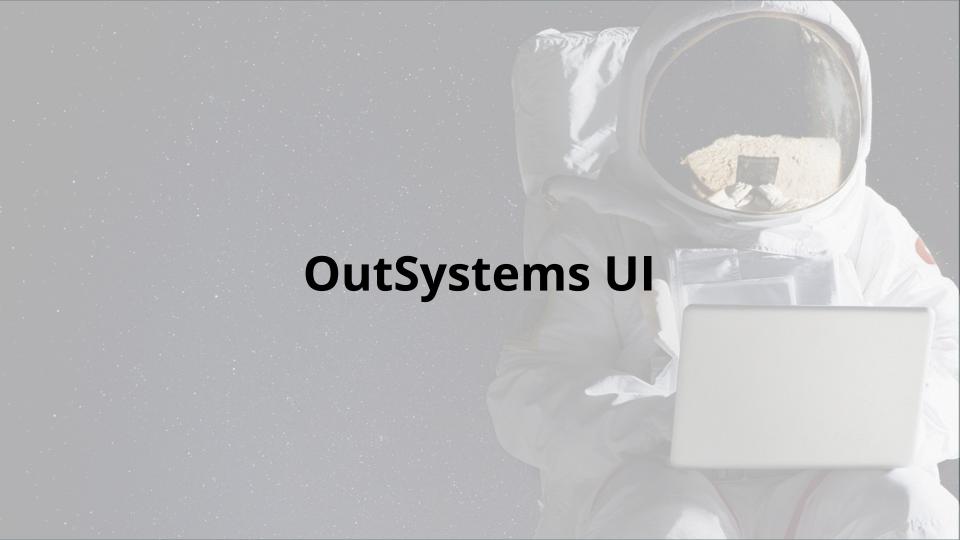


#### **Advanced UI Patterns**

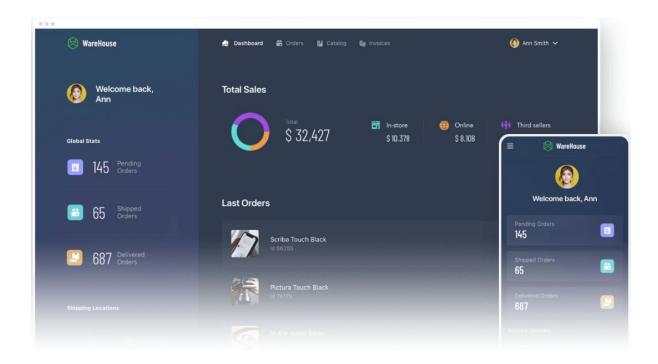
- OutSystems UI
  - UI Framework for web and mobile apps
  - 100+ UI Patterns and Screens
- Rich Widgets
  - Groups of Widgets, Themes and Actions
- Widgets are present in the Service Studio Toolbar







# **OutSystems UI**

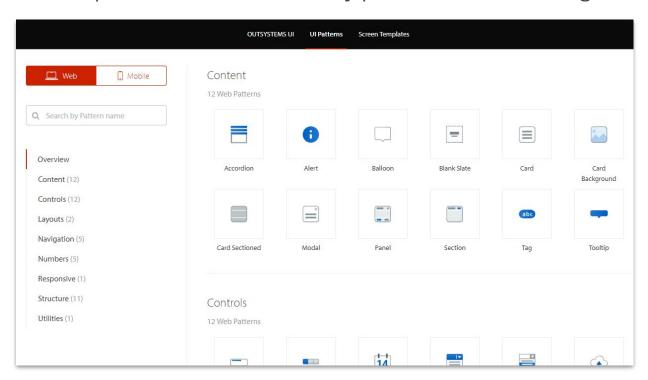


https://www.outsystems.com/outsystems-ui/



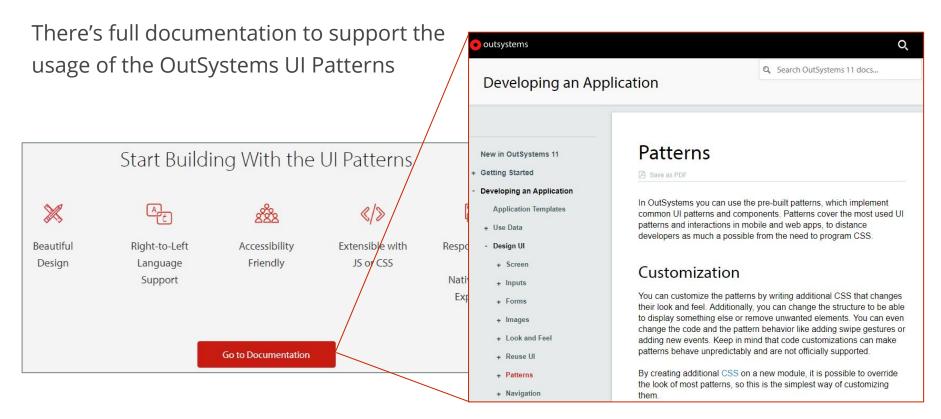
#### **UI Patterns**

Pre-built UI patterns that can be easily placed in Screens (drag & drop)





#### **UI Patterns Documentation**





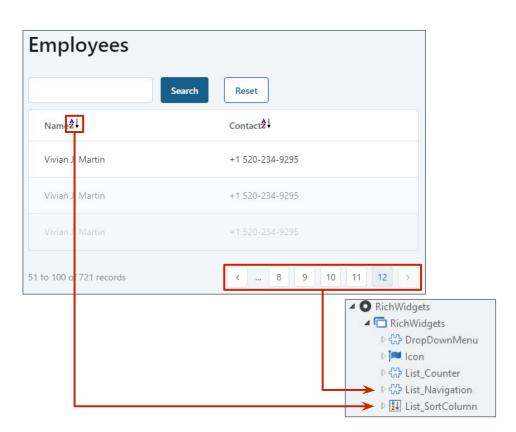


## **Rich Widgets**

Additional Widgets for common functionalities in Web applications

Examples of RichWidgets patterns

- DropDownMenu
- Icon
- List\_Navigation
- List\_SortColumn



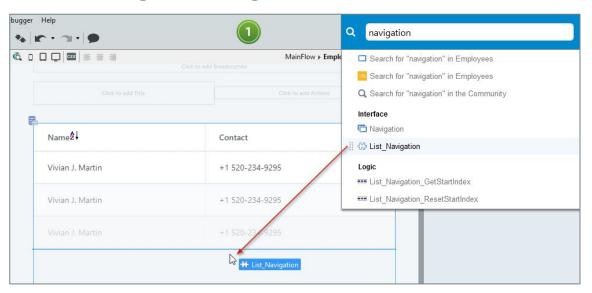


### List\_Navigation

Navigator for a Table Records with multiple pages

Shows a defined number of elements per page

Drag and drop the **List\_Navigation** Widget below the Table Records

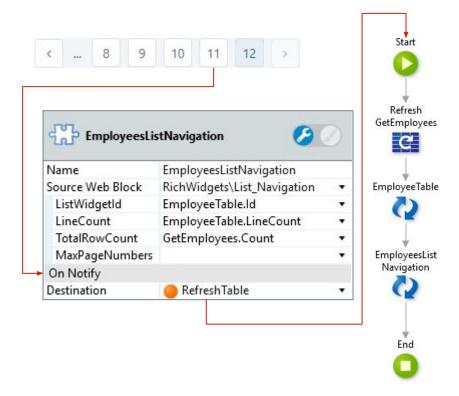




# **List\_Navigation properties**

#### Set the List\_Navigation properties

- ListWidgetId: Associate it with the Table Records
- LineCount: Number of records displayed per page
- TotalRowCount: Total number of records returned by the query
- OnNotify: Action to execute when a page is selected
  - Refresh the Data Source and the
    Table Records + List Navigation





## **List\_Navigation in the Table Records**

Set the **Start Index** to depend on the List\_Navigation

- The displayed elements are influenced by the page clicked on the navigator
- **List\_Navigation\_GetStartIndex**(<*TableRecordsName*>.ld)

Function retrieves from session the page clicked and calculates the starting index

Depends on the Line Count of the Table Records

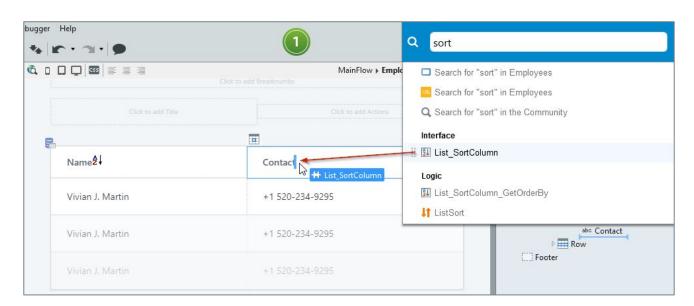
Employee Table		
Name	EmployeeTable	
Source Record	GetEmployees.List	•
Empty Message	"No employees to show"	•
Line Count	10	•
Start Index	List_Navigation_GetStartIndex(EmployeeTable.Id)	•
Cell Height		
Cell Spacing		
Show Header	Yes	•
Style Classes	TableRecords	•
Header Style	TableRecords_Header	•
Odd Line Style	TableRecords_OddLine	•
Even Line Style	TableRecords_EvenLine	•



## List\_SortColumn Widget

Defines dynamic sorting in Table Records columns

Drag and drop the **List\_SortColumn** Widget next to the header to be sorted





## **List\_SortColumn properties**

Set the **Column** to "{EntityName}.[AttributeName]"

Set the **OnNotify** destination to a Screen Action

- Action triggered when clicking on the Table Records header
- Refresh the Table Records' data source and the Table Records widget



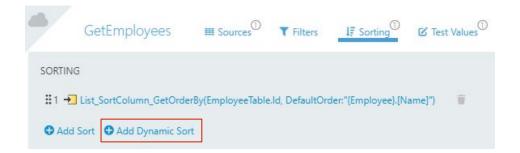


# List\_SortColumn input variable in the Aggregate

In the Aggregate used as source of the Table Records:

- Add a dynamic sort
- Set the Expression to:
  List\_SortColumn\_GetOrderBy(<TableRecordsName>.Id, DefaultOrder: "{EntityName}.[AttributeName]")

This function retrieves the column to sort by from the session





# **Summary**

- OutSystems UI
  - Ul Patterns
- RichWidgets
  - List\_Navigation
  - List\_SortColumn

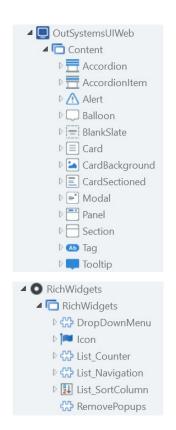




#### **Advanced UI Patterns**

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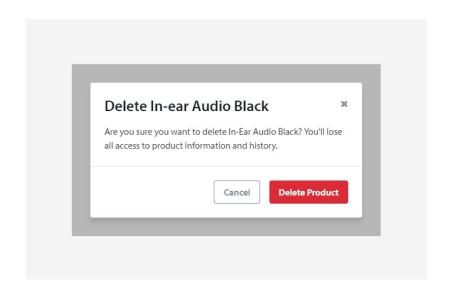






#### Modal

- Similar to a Popup
- Interrupts the end-user to demand an Action
  - Important when a confirmation is required
  - Relevant when manipulating critical information
- Consists on
  - Modal Pattern
  - ToggleModal Server Action





## **Using the Modal**

- Drag the Model pattern to your
  Screen and edit it to your needs
- Toggle Model Action opens / closes the Modal window
  - e.g. if Modal is open, the Toggle closes it
  - To be used in a Preparation or Screen Action
  - WidgetId expects the Id of the Modal
    - Modal must have a name

