



# Mobile Widgets

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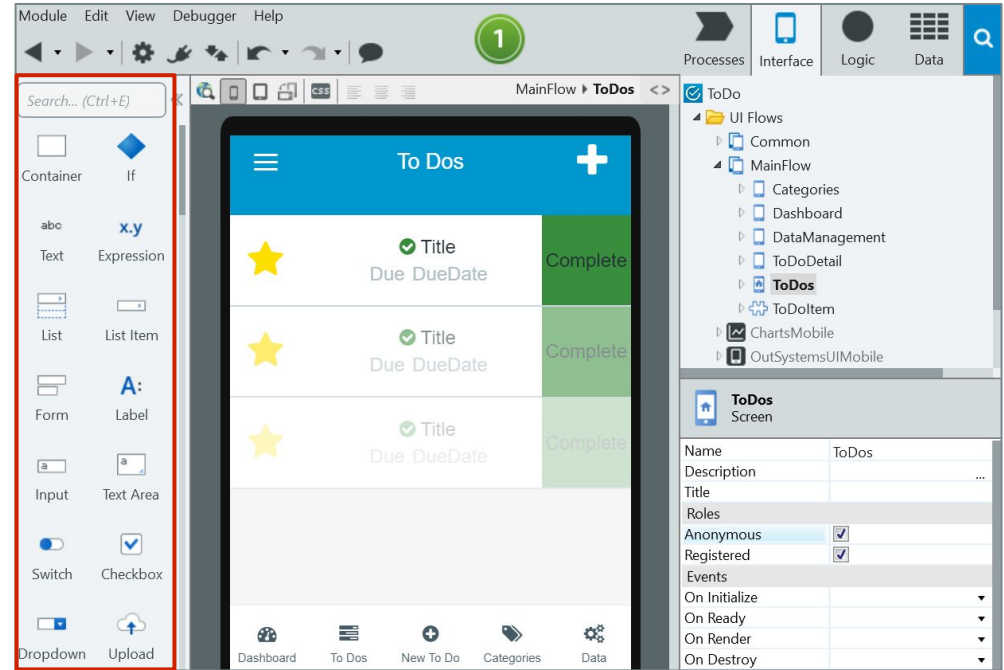


# Topics

- Widgets
  - Using Widgets
- Basic Widgets
  - Expression
  - Container
  - If
  - List and ListItem
  - Link
- Input Widgets
  - Form
  - Input
  - Dropdown
  - ButtonGroup and ButtonGroupItem
  - Button

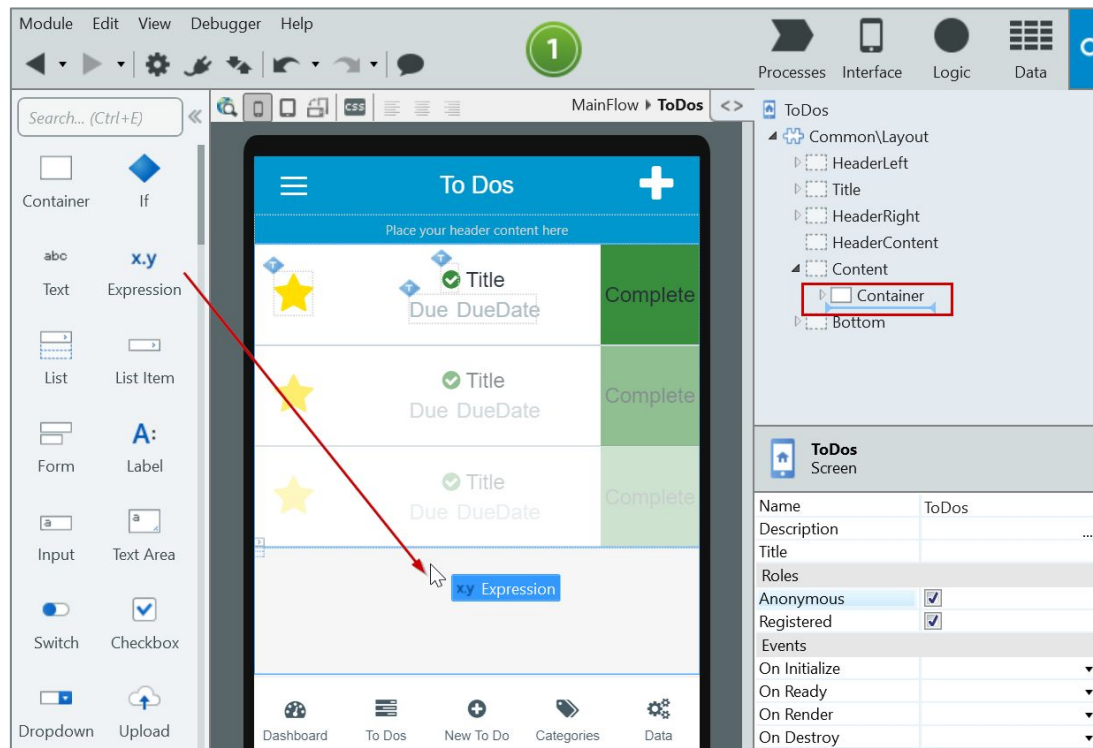
# Widgets

- Simple built-in Patterns that represent a Screen component
  - Widgets can be found in the Toolbox
- What can Widgets do?
  - Basic Widgets: Lists, selections, navigation, display content, & popups
  - Input Widgets: Form and inputs
- Why are there Widgets?
  - Common components that are highly reusable



# Using Widgets

- Drag & Drop Widgets...
  - To the Canvas
    - Opens Widget Tree
    - Help guide placement
  - To Widget Tree
    - For precise placement
- Widget hierarchy
  - Near bottom of canvas
  - Shows related Widgets
  - Select to view properties



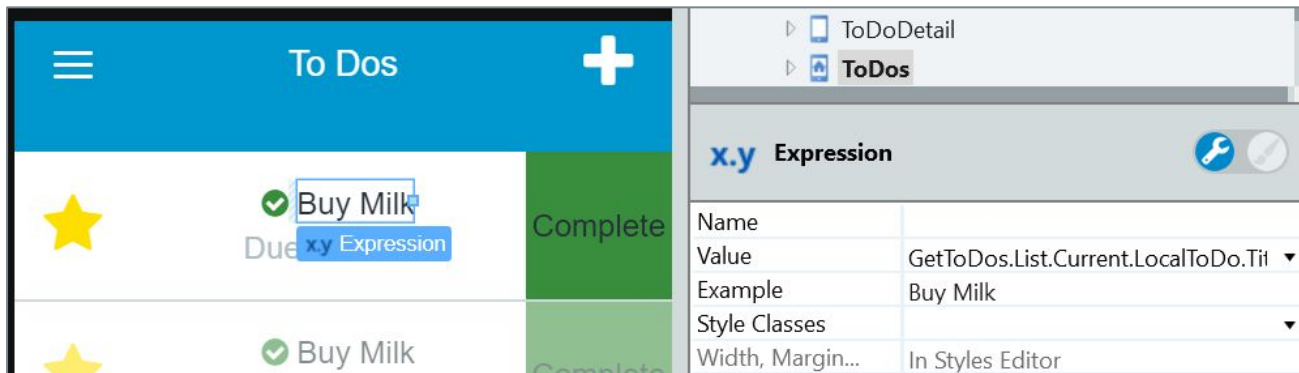


# Basic Widgets

A full-page background image featuring an astronaut in a white spacesuit floating in the black void of space, surrounded by distant stars. The astronaut is holding a silver laptop in front of their chest. The text 'Basic Widgets' is overlaid in the center-left in a large, white, sans-serif font.

## x.y Expression Widget

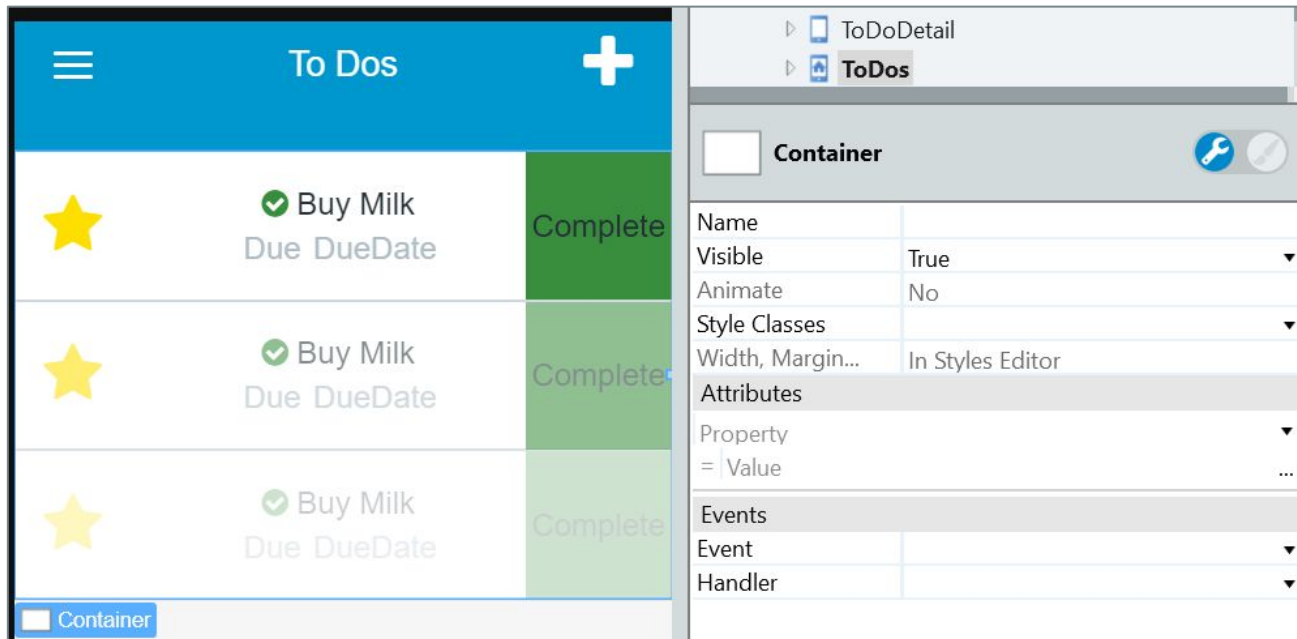
- Displays the Value of the *Value* property on the Screen
- *Example* property displays an example Expression on preview



x.y Expression	
Name	
Value	GetToDos.List.Current.LocalToDo.Tit ▼
Example	Buy Milk
Style Classes	▼
Width, Margin...	In Styles Editor

# Container Widget

- Groups Widgets together and applies styles to them
- *Visible* property determines if the content is displayed or not



The screenshot displays the OutSystems IDE interface. On the left, a preview of a 'To Dos' application is shown. It features a blue header with a menu icon, the title 'To Dos', and a plus icon. Below the header, there is a list of three items, each consisting of a yellow star icon, a green checkmark, the text 'Buy Milk', and 'Due DueDate'. To the right of each item is a green box with the word 'Complete'. At the bottom left of the preview, there is a small blue box with a white square icon and the text 'Container'.

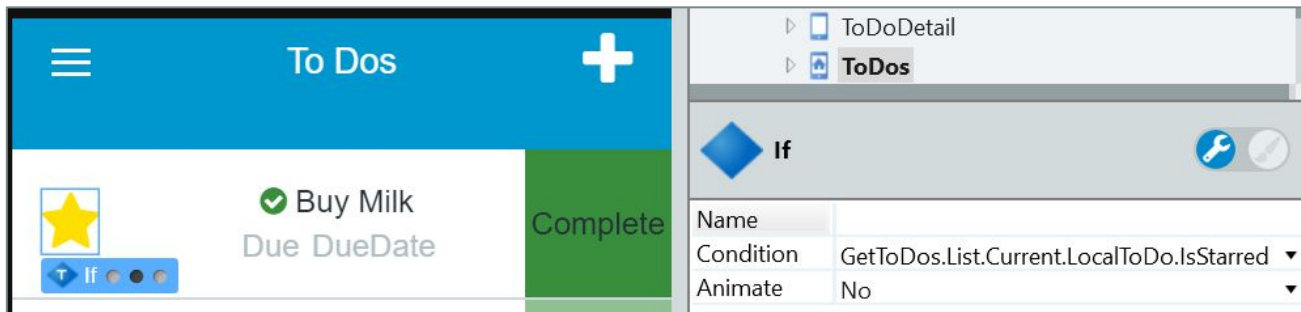
On the right, the 'Properties' panel for the 'Container' widget is visible. It shows the following properties:

- Name:** Container
- Visible:** True
- Animate:** No
- Style Classes:** (empty)
- Width, Margin...:** In Styles Editor
- Attributes:** (empty)
- Events:** (empty)

The 'Attributes' and 'Events' sections are currently empty.

# ◆ If Widget

- Displays content based on a Boolean condition
- Two branches with Screen Contents, True or False
  - Boolean condition determines which branch is displayed
  - Both branches (or just one) can be displayed in Service Studio







# List Widget

- Displays a scrollable List of records
- *Source* property expects a List of records to display (e.g: output of an Aggregate)

The screenshot displays a mobile application interface titled "To Dos" with a blue header bar containing a menu icon, the title, and a plus icon. Below the header is a scrollable list of three items, each featuring a yellow star icon, a green checkmark, the text "Buy Milk", and "Due DueDate". A green bar on the right of each item indicates its status as "Complete". At the bottom left, a small "List" widget icon is visible.

On the right, the configuration panel for the "List" widget is shown. It includes a breadcrumb trail: "ToDoDetail" > "ToDos". The widget name "List" is displayed with a settings icon. The configuration table is as follows:

List	
Name	
Source	GetToDos.List
Animate Items	Yes
Mode	Default
Tag	div
Style Classes	"list list-group"
Width, Margin...	In Styles Editor
Attributes	
Property	
= Value	...
Events	
On Scroll Ending	



# ListItem Widget

- Displays a record (inside or outside a List)
- On Click and Swipe Behavior
  - Full Swipe Left or Right

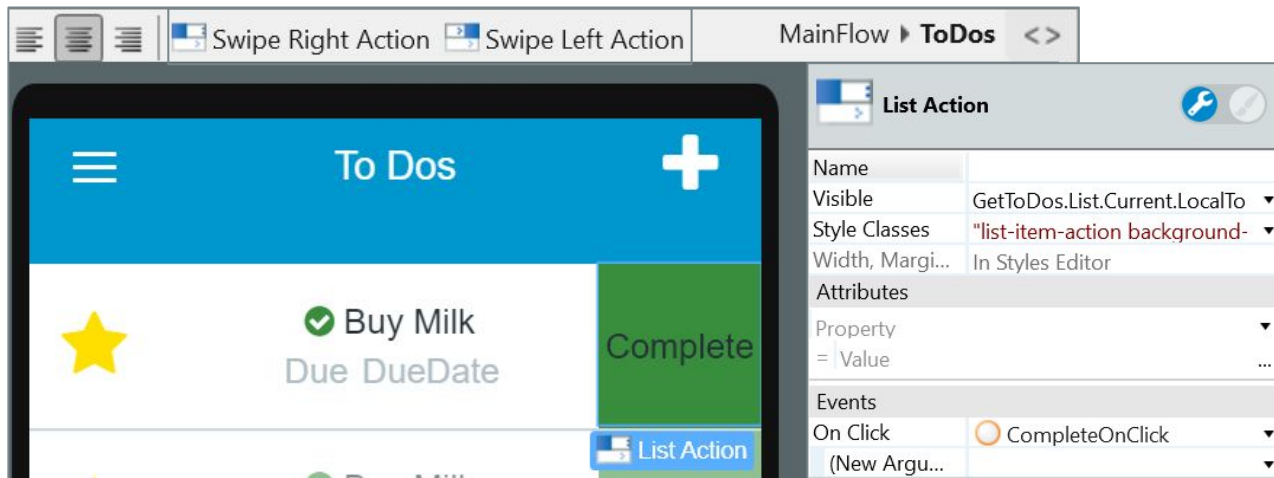
The screenshot displays the OutSystems IDE interface. On the left, a mobile application preview shows a 'To Dos' screen with a blue header, a menu icon, and a list of three items. Each item contains a yellow star, a green checkmark, the text 'Buy Milk', and 'Due DueDate'. A blue 'Complete' button is visible on the right of each item. The middle item is highlighted with a blue selection bar labeled 'ListItem1'. On the right, the configuration panel for 'ListItem1' is shown. It includes a search bar with 'ToDoDetail' and 'ToDos' suggestions, and a table of properties and events.

Name	
Full Swipe Left	Yes
Full Swipe Right	Yes
Style Classes	"list-item"
Width, Margin...	In Styles Editor
Attributes	
Property	Value
Events	
On Click	MainFlow\ToDoDetail
LocalToDoId	GetToDos.List.Current.LocalToDo.Id
(New Argument)	
Transition	(Module Transition)



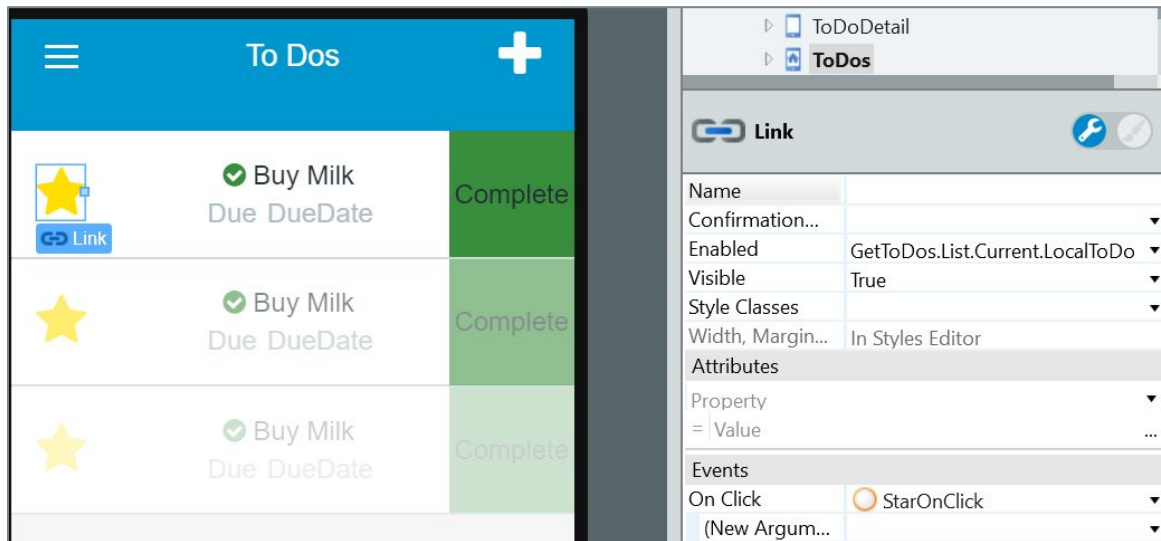
# ListAction Widget (Embedded)

- ListItem has Swipe Right Action and Swipe Left Action option
- Creates a ListAction on the opposite side
  - Makes the ListItem swipeable
  - OnClick property
  - Full Swipe properties execute the Destination of the OnClick property



# Link Widget

- Provides a Link to a Destination
  - Screen Action
  - Screen
- Can enclose other widgets (e.g: Container, Expressions, Icon...)



# More Basic Widgets

 **Icon:** Displays a scalable vector picture

 **Image:** Displays an image. Source is resource, URL, or binary data

 **HTML Element:** Allows adding a custom HTML element to the Screen

 **Block:** Displays a reusable Screen element



# Input Widgets





# Form Widget



Form1

- Groups input widgets together
- Useful to validate user inputs



Label



Input



Dropdown



ButtonGroup



Button



# Form Widget

- Groups input widgets together
- Useful to validate user data

Label

Input



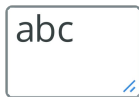
Dropdown



Button Group



Button



Text Area



Checkbox



Switch



Upload

# Input Widget

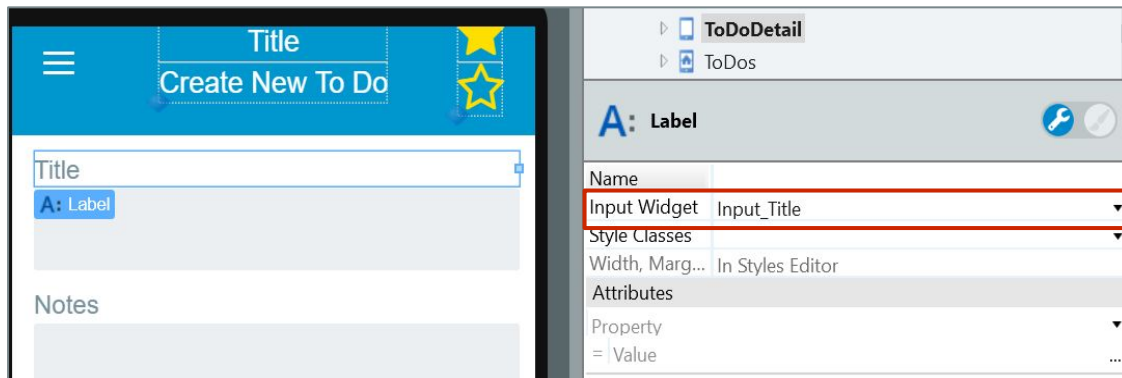
- Field that allows a user to submit input
- Value entered is stored in the *Variable* property (Type)
- Can be mandatory or not

The screenshot displays the OutSystems Studio interface. On the left, a mobile app design is shown with a blue header titled 'Title' and a subtitle 'Create New To Do'. Below the header, there is a text input field labeled 'Input Title', followed by a 'Notes' section with a text area, and a 'Due Date' section with a date picker showing 'mm/dd/yyyy'. On the right, the 'Properties' panel for the 'Input Title' widget is open. The 'Variable' property is highlighted with a red box and set to 'GetLocalToDoById.List.Current.LocalToDo.Title'. Other properties include 'Prompt', 'Input Type' (Text), 'Max. Length' (50), 'Mandatory' (True), 'Enabled' (GetLocalToDoById.List.Current.LocalToDo.Com), 'Style Classes' ('form-control' + ' OSAutoMarginTop'), and 'Width, Marg...' (In Styles Editor). The 'Attributes' section shows 'Property' set to '= Value'.

Name	Input Title
Variable	GetLocalToDoById.List.Current.LocalToDo.Title
Prompt	
Input Type	Text
Max. Length	50
Mandatory	True
Enabled	GetLocalToDoById.List.Current.LocalToDo.Com
Style Classes	"form-control" + " OSAutoMarginTop"
Width, Marg...	In Styles Editor
Attributes	
Property	= Value

## A: Label Widget

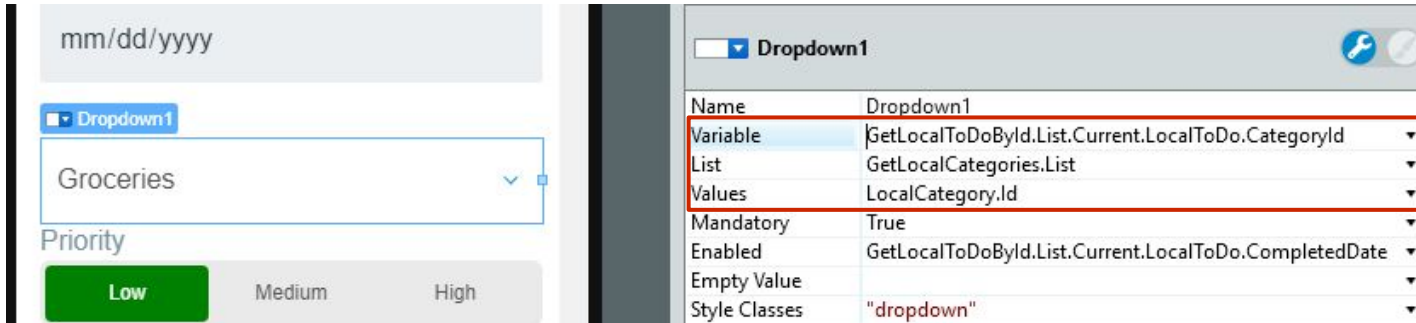
- Displays text associated with an input field
- The Input Widget property creates an association with the selected Input
  - Provides a visual cue when inputs are mandatory





# Dropdown Widget

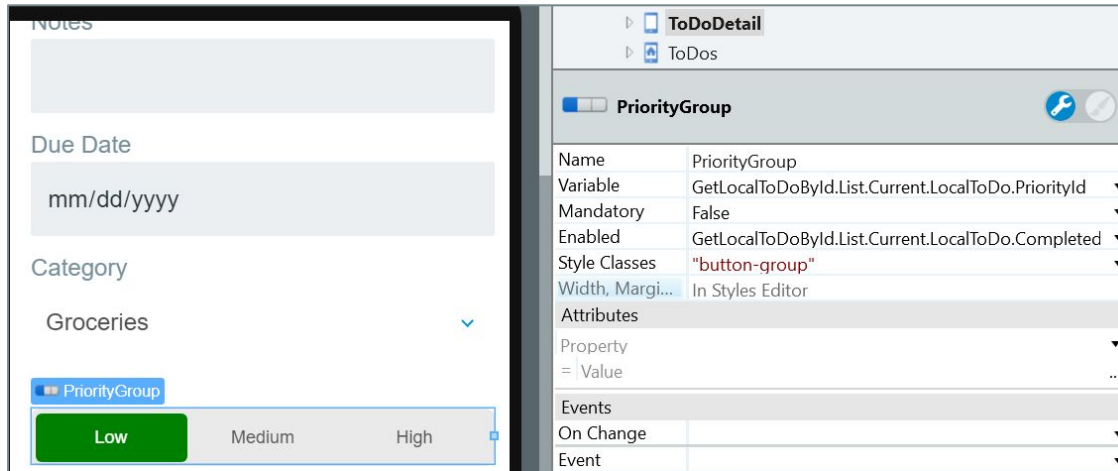
- Dropdown list from which a user can select a value
- Value selected is stored in the *Variable* property
- *List* property specifies the list of records to show in the dropdown
  - *Values* property defines the identifier attribute of the selected value



Dropdown1	
Name	Dropdown1
Variable	GetLocalToDoById.List.Current.LocalToDo.CategoryId
List	GetLocalCategories.List
Values	LocalCategory.Id
Mandatory	True
Enabled	GetLocalToDoById.List.Current.LocalToDo.CompletedDate
Empty Value	
Style Classes	"dropdown"

# ButtonGroup Widget

- Group of buttons that provide multiple selection options
  - Expects one ButtonGroupItem widget for each option
- The selection is stored in the variable defined in the *Variable* property

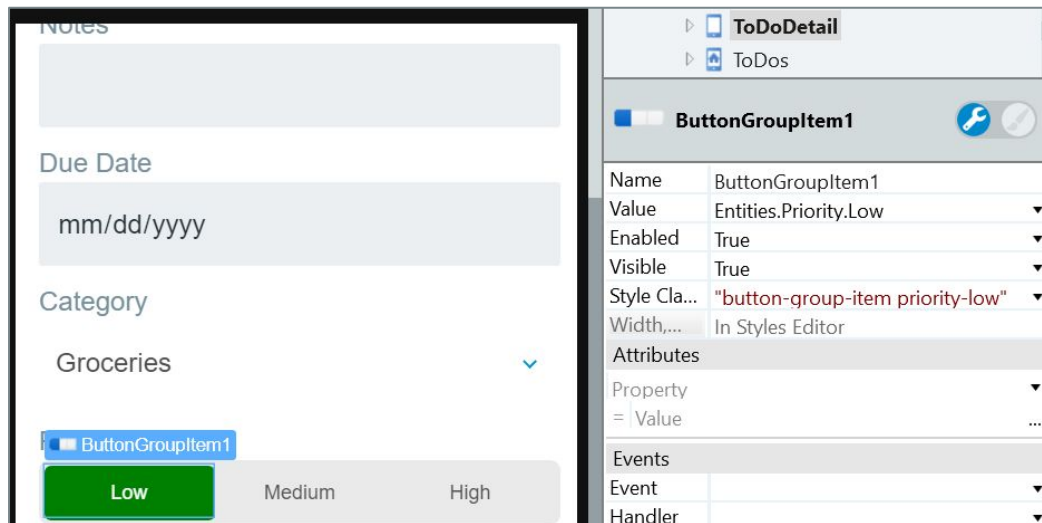


The screenshot displays the OutSystems IDE interface. On the left, a form titled 'Notes' contains a text area, a 'Due Date' field with a date mask 'mm/dd/yyyy', a 'Category' dropdown menu currently showing 'Groceries', and a 'PriorityGroup' widget. The 'PriorityGroup' widget is a horizontal bar with three buttons: 'Low' (green), 'Medium' (grey), and 'High' (grey). The 'Low' button is selected. On the right, the configuration panel for the 'PriorityGroup' widget is shown. It includes a 'Name' field set to 'PriorityGroup', a 'Variable' dropdown set to 'GetLocalToDoById.List.Current.LocalToDo.PriorityId', a 'Mandatory' checkbox set to 'False', an 'Enabled' checkbox set to 'GetLocalToDoById.List.Current.LocalToDo.Completed', and a 'Style Classes' dropdown set to '"button-group"'. The 'Attributes' section shows 'Property' set to 'Value'. The 'Events' section shows 'On Change' and 'Event' dropdowns.

PriorityGroup	
Name	PriorityGroup
Variable	GetLocalToDoById.List.Current.LocalToDo.PriorityId
Mandatory	False
Enabled	GetLocalToDoById.List.Current.LocalToDo.Completed
Style Classes	"button-group"
Width, Margi...	In Styles Editor
Attributes	
Property	Value
Events	
On Change	
Event	

# ButtonGroupItem Widget

- An individual button that represents an option within a ButtonGroup widget
- *Value* property defines the value of this option
  - *Value* is stored in the *Variable* of the ButtonGroup widget when selected



The screenshot displays the OutSystems IDE interface. On the left, a form titled 'Notes' contains fields for 'Due Date' (with a date mask 'mm/dd/yyyy') and 'Category' (with a dropdown menu showing 'Groceries'). Below these fields is a ButtonGroup widget containing three buttons: 'Low' (highlighted in green), 'Medium', and 'High'. The 'Low' button is selected. On the right, the configuration panel for 'ButtonGroupItem1' is shown. It includes a table of properties and a list of events.

ButtonGroupItem1	
Name	ButtonGroupItem1
Value	Entities.Priority.Low
Enabled	True
Visible	True
Style Cla...	"button-group-item priority-low"
Width,...	In Styles Editor
Attributes	
Property	= Value
Events	
Event	
Handler	

# Button Widget

- On Click property defines what occurs when the user clicks the Button
  - Executes a Screen Action
  - Navigates to a Screen / External URL

The screenshot displays the OutSystems UI Mobile editor. On the left, a form titled 'Notes' contains a text input, a 'Due Date' field with a date picker (mm/dd/yyyy), a 'Category' dropdown set to 'Groceries', and a 'Priority' section with three buttons: 'Low' (green), 'Medium' (grey), and 'High' (grey). Below these are two buttons: 'OK Button' (blue) and 'Save' (blue). On the right, the 'Button' widget is selected, showing its properties in a table.

Button	
Name	
Confirmation Message	
Enabled	True
Visible	True
Style Classes	"btn btn-primary"
Width, Margin...	In Styles Editor
Attributes	
Property	
= Value	...
Events	
On Click	SaveOnClick
(New Argument)	
Built-in Validations	Yes

# Other Input Widgets



**Text Area:** Multi-line input field for user to input data



**Checkbox:** Field allowing a user to check or uncheck an option



**Switch:** Toggle control to select between 2 options



**Upload:** Control allowing users to select a file



# Summary

- Widgets
  - Using Widgets
- Basic Widgets
  - Expression
  - Container
  - If
  - List and ListItem
  - Link
- Input Widgets
  - Form
  - Input
  - Dropdown
  - ButtonGroup and ButtonGroupItem
  - Button

A low-angle, long-exposure photograph of a city skyline at night. The image features several tall skyscrapers with illuminated windows. In the foreground, there are bright, horizontal light trails from traffic, suggesting a busy street. The overall atmosphere is dynamic and modern.

**Mobile Widgets**  
**Thank You!**