



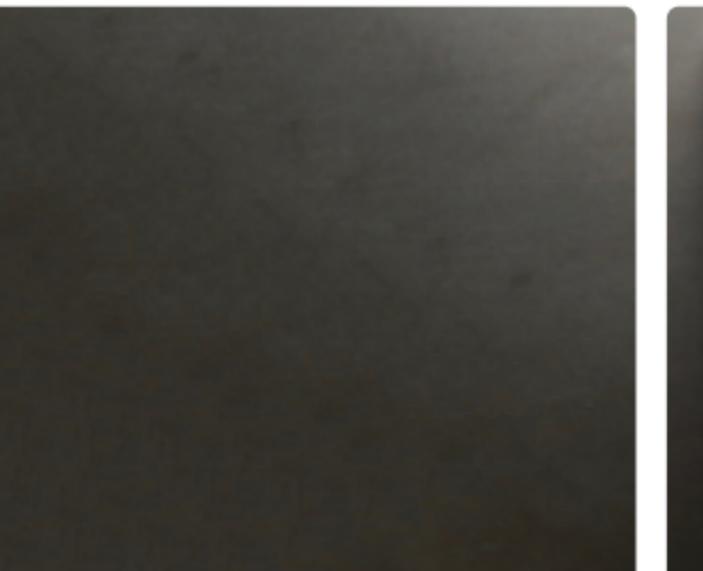
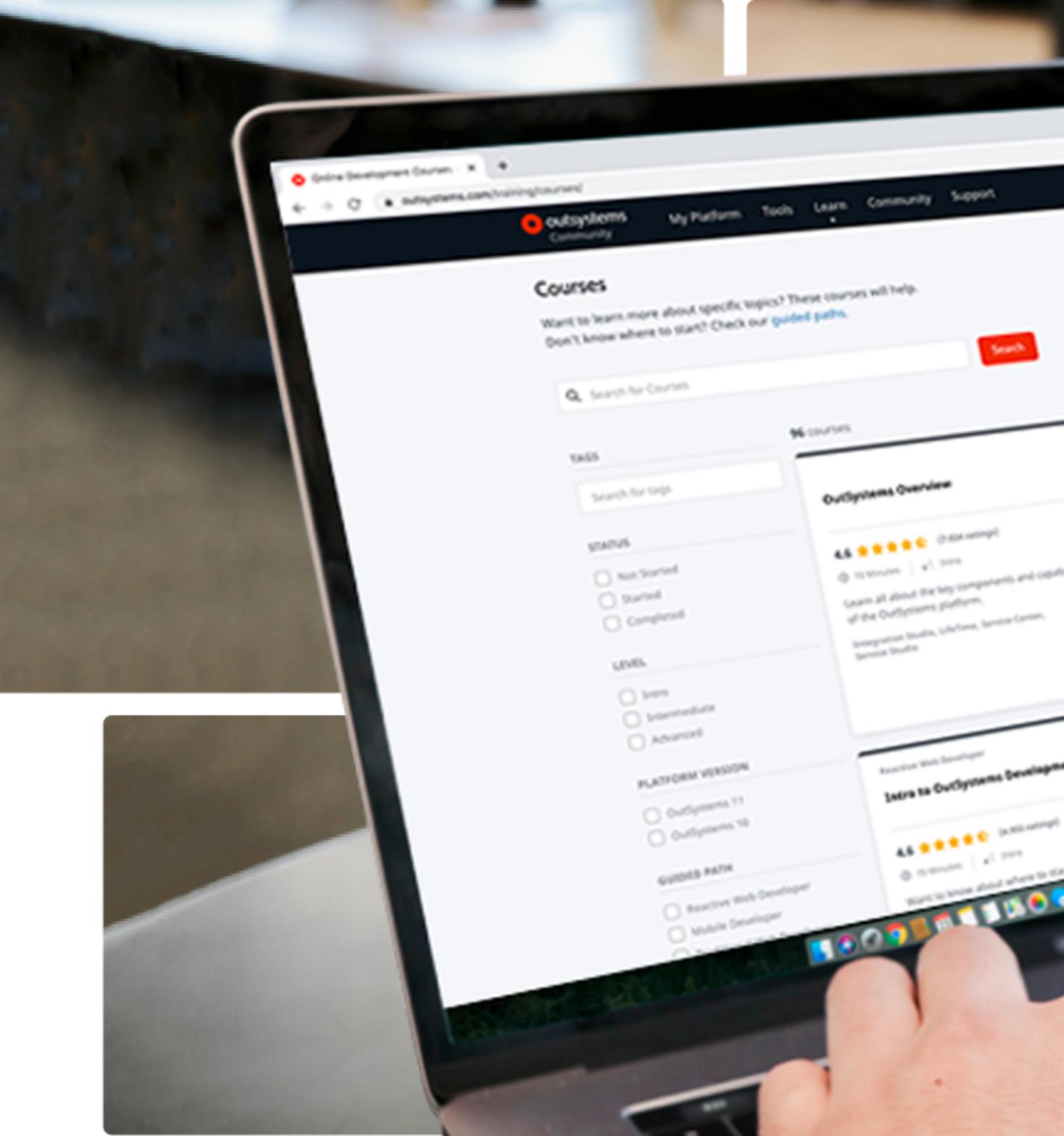
Displaying Data on Screens

Data on Screens

Fetching Data from Database

Fetching Data from Other Sources

Widgets to Display Data



Data on Screens

- Screens often need to display data
- Data can be fetched from:
 - Database
 - Other Sources
- Widgets are used to display data on Screen

The image shows a mobile application interface. On the left, there is a vertical list of five contacts, each with a small profile picture, a name, and a job title. To the right of this list is a larger, detailed view of the first contact, Amos Tesen. This view includes a profile picture, the name 'Amos Tesen', the title 'Content Marketing Consultant', a red navigation arrow, and a section titled 'About' which states 'No available data to display'. Below this is a 'Contacts' section with fields for 'Email' (amos.tesen@example.com) and 'Phone' (1-555-445-1521).

Contact	Title	Action
Amos Tesen	Content Marketing Consultant	>
Andrea McCarthy	Services Manager West	>
Ann Olivarria	Services Representative	>
Antonia Saulter	Marketing Manager	>
Ashton James	Front-End Developer	>

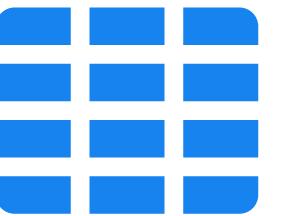
About
No available data to display

Contacts

Email
amos.tesen@example.com

Phone
1-555-445-1521

Fetching Data



**Screen Aggregate
(Database)**

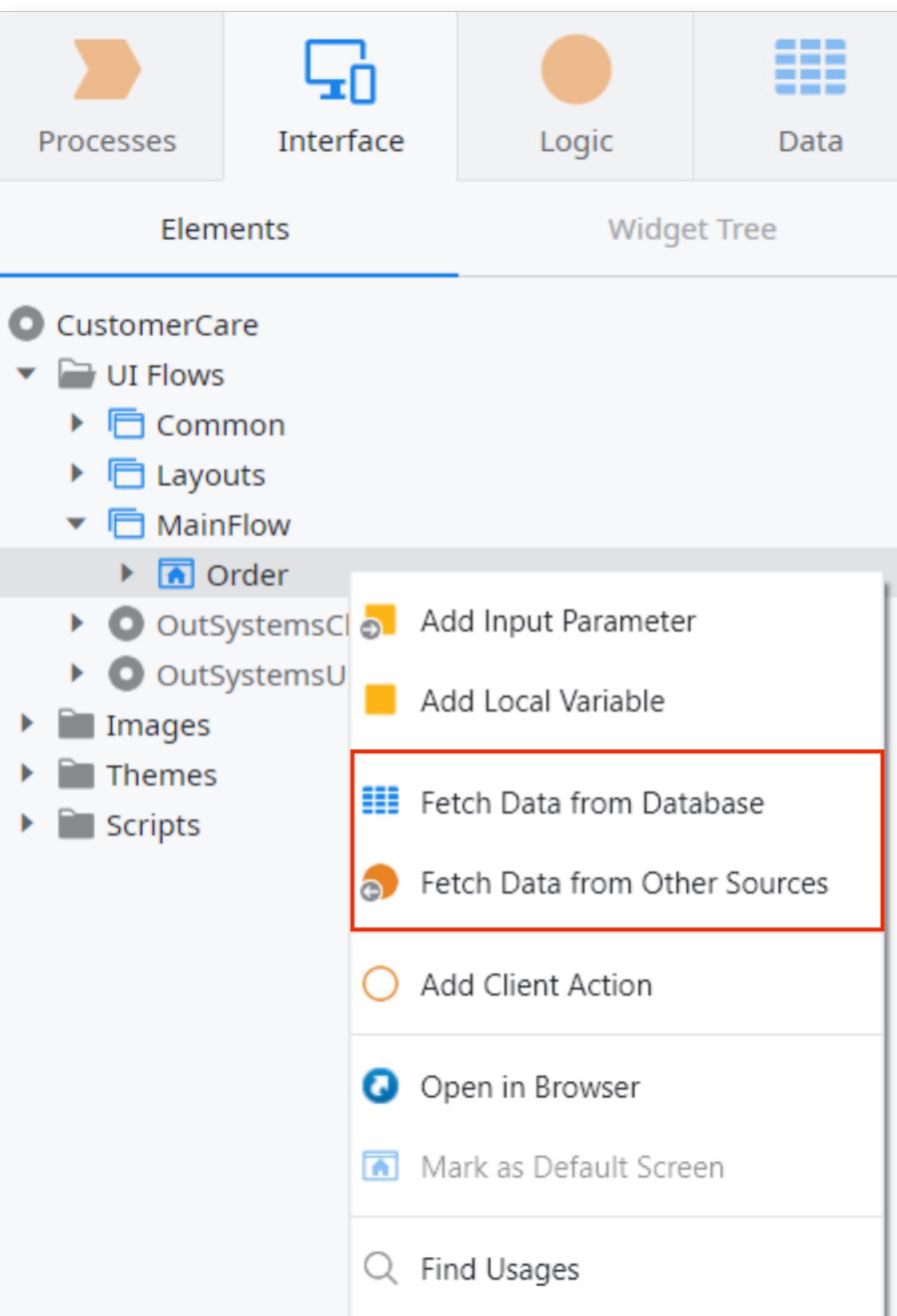


Data Action

Fetching Data

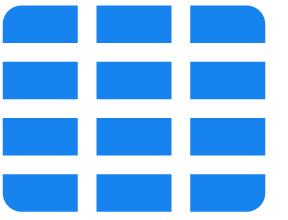


**Screen Aggregate
(Database)**



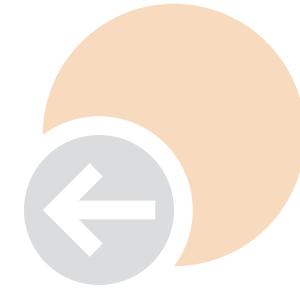
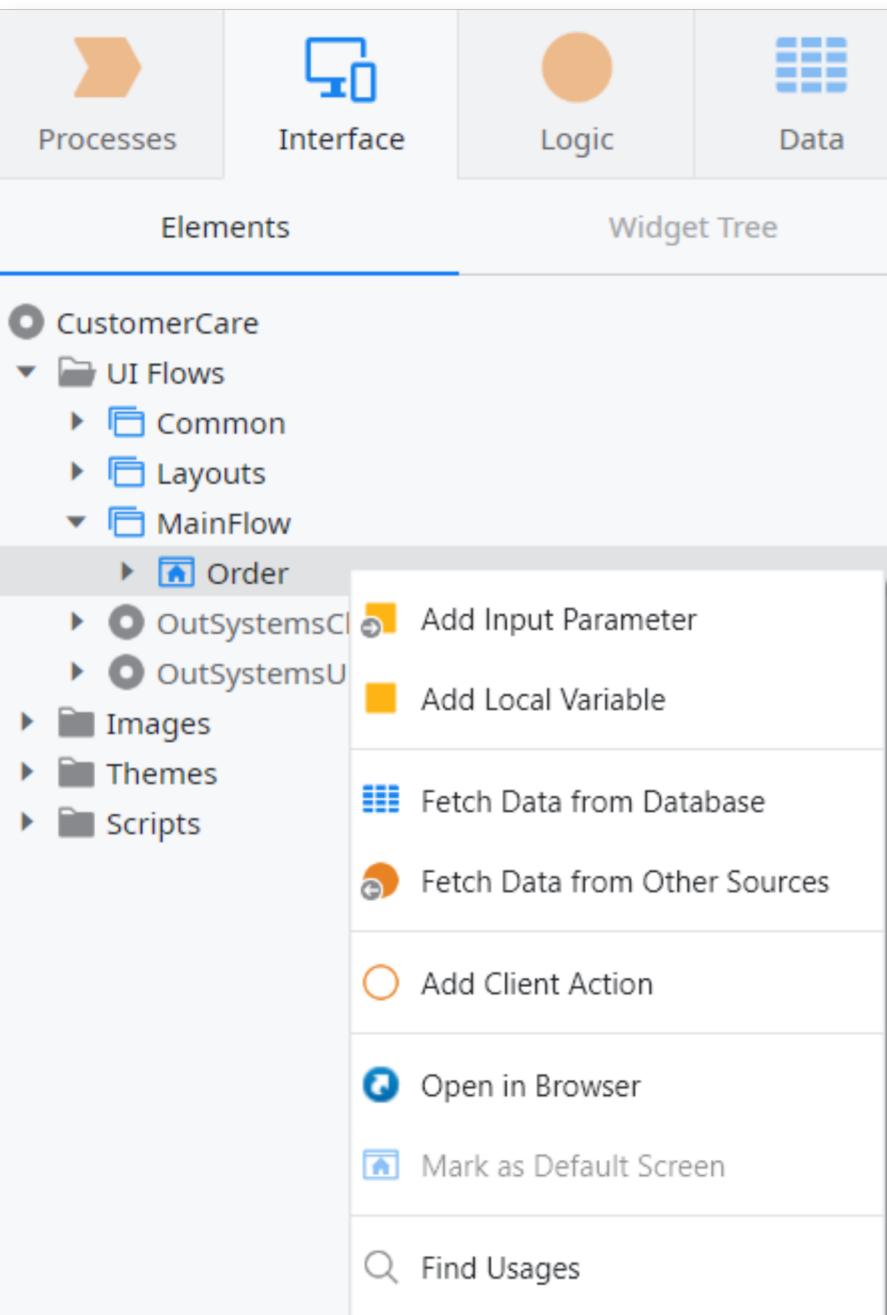
Data Action

Screen Aggregate



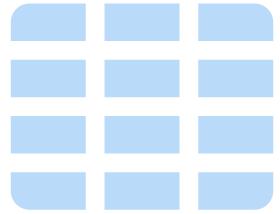
Screen Aggregate (Database)

Visually defined like any
other Aggregate



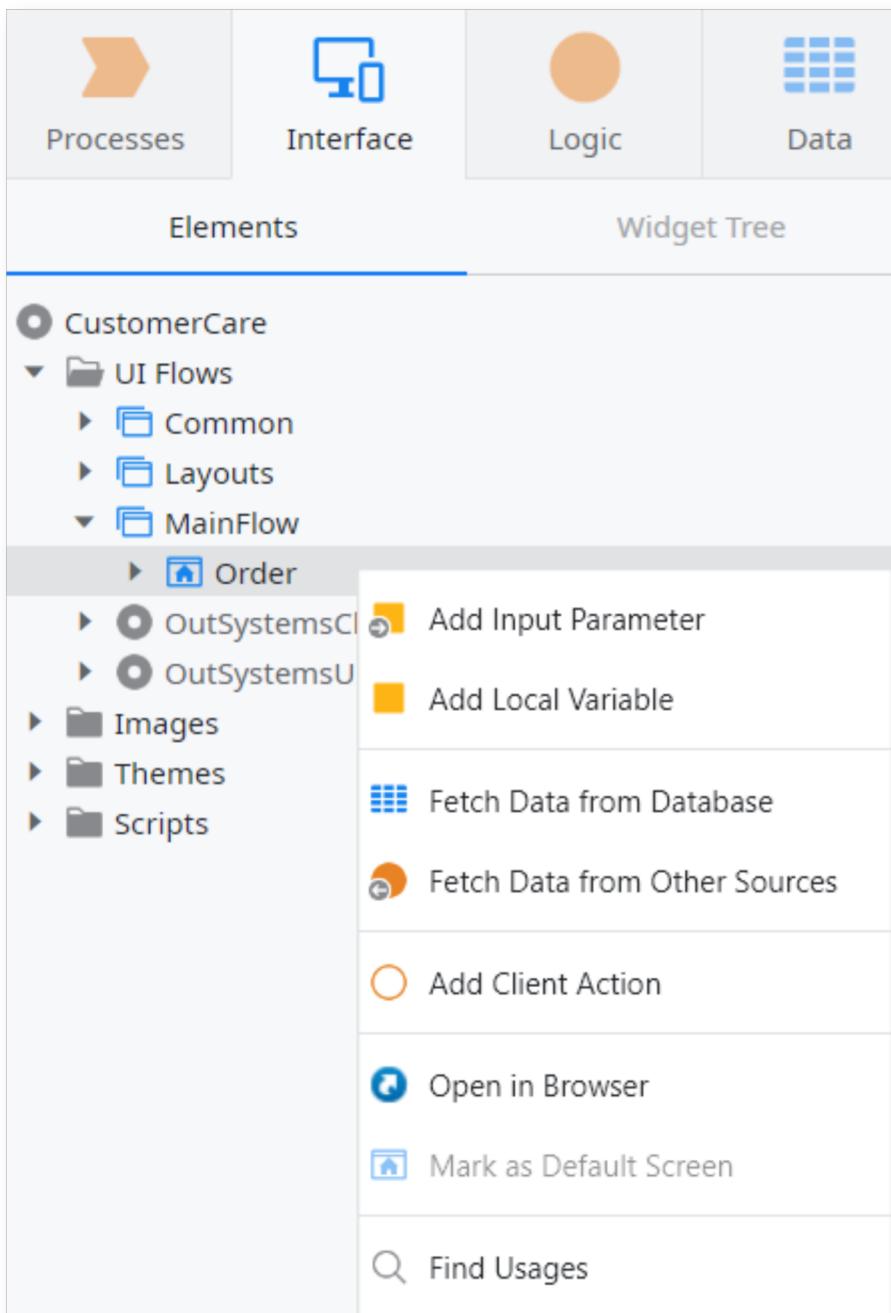
Data Action

Data Action



Screen Aggregate (Database)

Visually defined like any
other Aggregate



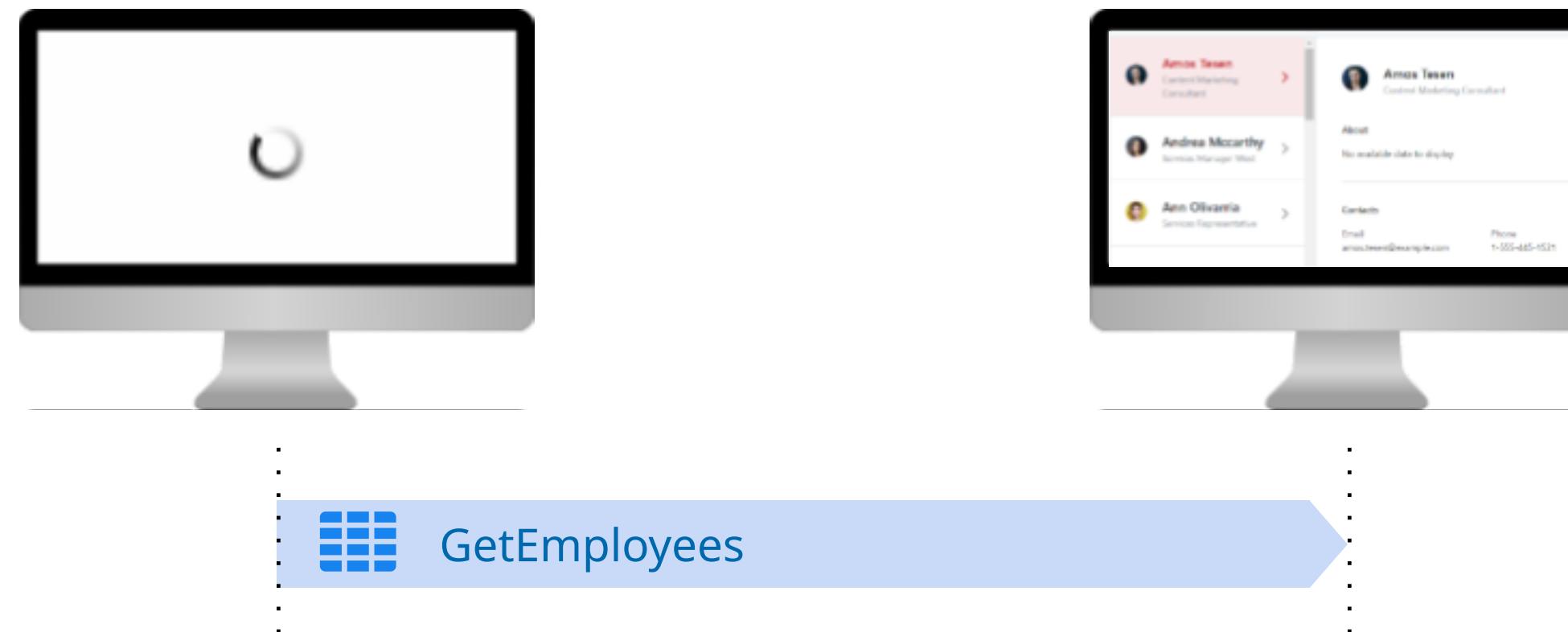
Data Action

Retrieve data from external
systems (e.g. REST)

Custom logic (e.g. Advanced
SQL Queries)

When is Data Fetched?

- Aggregates and Data Actions start executing when the Screen is initializing
 - Asynchronously and in parallel
- When data is available the Screen renders automatically to display it



Widgets to Display Data

- Widgets are used to display the data fetched to the Screen

Amos Tesen
Content Marketing Consultant

Andrea McCarthy
Services Manager West

Andrea McCarthy
Services Manager West

Ann Olivaria
Services Representative

Antonia Sauter
Marketing Manager

Andrea McCarthy
Services Manager West

Edit Profile

About

Experienced and "fearless" cold-caller and expert presenter, negotiator and closer! Enjoys working with clients. My aim is to serve well and on time.

Contacts

Email: andrea.mccarthy@example.com

Phone: 1-555-445-1521

Widgets to Display Data

- Widgets are used to display the data fetched to the Screen

The screenshot illustrates the OutSystems development environment. On the left, a sidebar titled "abc" lists various UI widgets categorized by their visual representation: Text, Expression, Table, List, List Item, Form, Label, Input, Text Area, Switch, Checkbox, Radio Group, Dropdown, and Upload. The "Expression" category is currently selected, indicated by a blue border around its icon. To the right of the sidebar, a main panel displays a "Employees List" interface. This interface shows three items in a list, each representing an employee: "Andrea Mccarthy" (Services Manager West), "Andrea Mccarthy" (Services Manager West), and "Andrea Mccarthy" (Services Manager West). Each list item includes a small circular icon with the letters "JD". Below the list, a "List" button is visible. To the right of the list, a detailed view of the first employee is shown. This view includes a profile picture of "Andrea Mccarthy", her name, title ("Services Manager West"), an "Edit Profile" button, an "About" section with a descriptive paragraph, and a "Contacts" section listing an email address ("andrea.mccarthy@observeverything.example") and a phone number ("+1-555-445-1521").

Widgets to Display Data

- Widgets are used to display the data fetched to the Screen

The screenshot illustrates the OutSystems Platform's interface for displaying data. On the left, a sidebar lists various widgets categorized by their visual representation: Text, Expression, Table, List, List Item, Form, Label, Input, Text Area, Switch, Checkbox, Radio Group, Dropdown, and Upload. The 'List' widget is highlighted with a red border.

The main area displays a 'Employees List' screen. This screen features a list of employees, each represented by a card. The first card, for 'Andrea McCarthy', is also highlighted with a red border. The card displays the employee's name ('Andrea McCarthy'), title ('Services Manager West'), and a small profile icon ('JD'). To the right of the list is a detailed view of the selected employee, Andrea McCarthy. This view includes her name, title, an 'Edit Profile' button, an 'About' section with a brief description, and a 'Contacts' section listing her email and phone number.

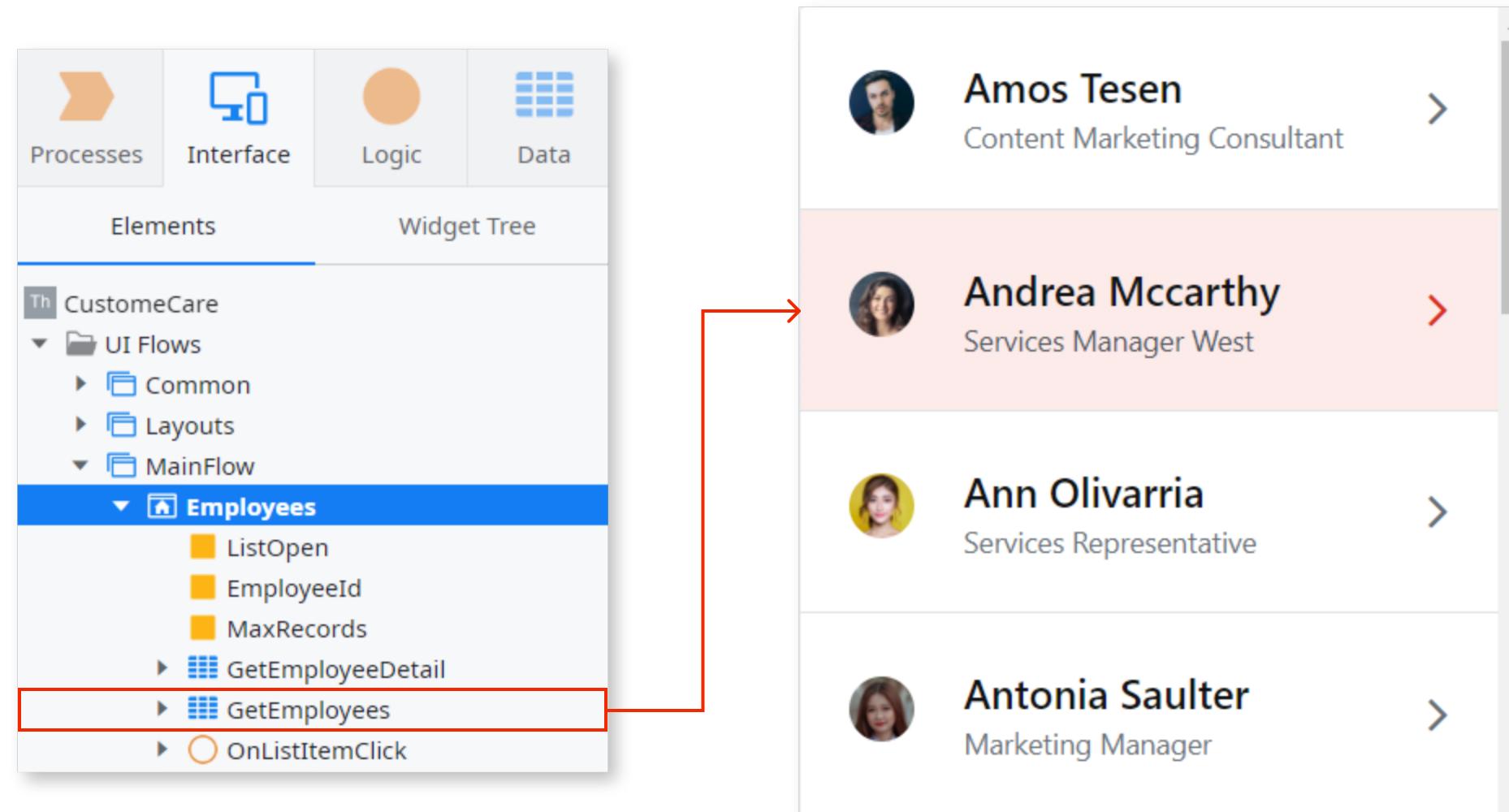
Widgets to Display Data

- Widgets are used to display the data fetched to the Screen

The screenshot illustrates the OutSystems development environment. On the left, a sidebar lists various UI widgets categorized by type (Text, Expression, Table, List, etc.) and their corresponding icons. The main area shows a 'Employees List' screen. This screen displays three items from a list, each featuring a placeholder icon ('JD'), the name 'Andrea McCarthy', and the title 'Services Manager West'. The first item's name is highlighted with a red border. A blue 'List' button is located at the bottom of the list area. To the right, a detailed view of an employee profile for 'Andrea McCarthy' is shown. The profile includes a placeholder icon ('JD'), the name 'Andrea McCarthy', the title 'Services Manager West', and a red 'Edit Profile' button. Below the name, there is an 'About' section containing a bio: 'Experienced and "fearless" cold-caller and expert presenter, negotiator and closer! Enjoys working with clients. My aim is to serve well and on time.' It also states 'No available data to display'. Under the 'Contacts' section, email and phone information are listed: 'Email andrea.mccarthy@observeverything.example' and 'Phone +1-555-445-1521'. An envelope icon is present next to the contact details.

Binding the Data to the Widgets

- Having the data and the widgets, we just need to bind them together



Displaying Sets of Data

- Source property to select the list of elements to display

The image shows a user interface for a List control. On the left, there is a preview window titled "List" showing three identical items. Each item has a red circular icon with "JD" in white, followed by the name "Andrea McCarthy" and the title "Services Manager West". To the right of the preview is the properties panel for the List control.

Property	Value
Name	[Empty]
Source	GetEmployeesList.List
Animate Items	Yes
Mode	Default
Tag	div
Style Classes	"list list-group"
Attributes	
Property	[Empty]
= Value	[Empty]

Displaying a Specific Attribute

- The attribute value is fetched from the Aggregate / Data Action output

The screenshot shows a user interface with three identical list items. Each item displays a red circular icon with 'JD', the name 'Andrea McCarthy', and the title 'Services Manager West'. Above the list, a tooltip labeled 'Expression' is shown, containing the same information. To the right, a detailed view of the Expression Properties panel is provided for one of the list items.

X.y Expression

Properties

Name:

Value: (This field is highlighted with a red border.)

Example:

Style Classes:

Attributes

Property:

= Value: