



# Accelerating UI Development

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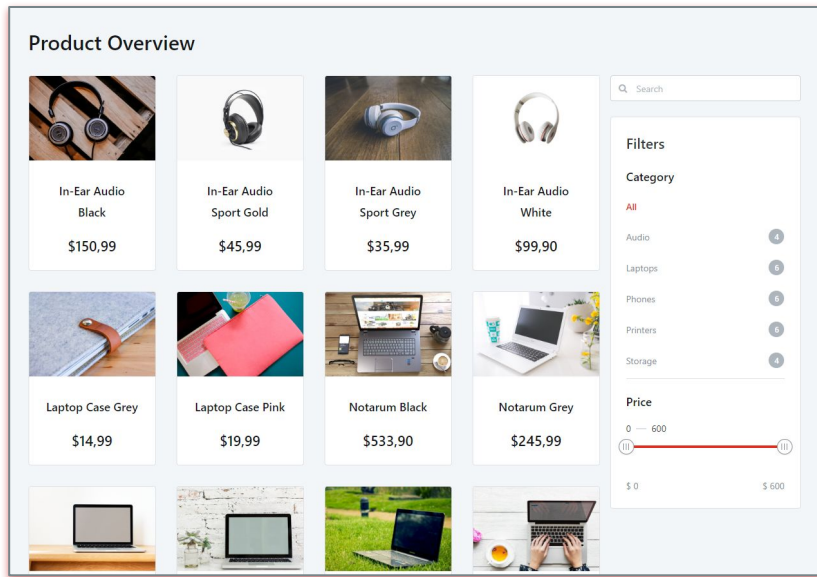
# Topics

- Screen Templates
  - Creating Template-based Screens
  - Sample Data
  - Replace Data
- Scaffolding Patterns
  - List Screen
  - Detail Screen

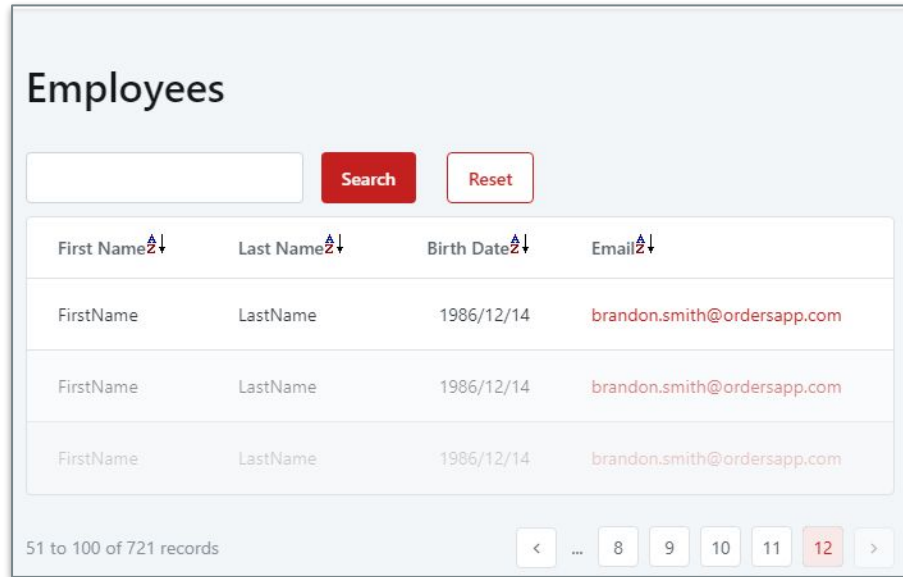
# Accelerating UI Development

OutSystems has accelerators that speed up the application development

## Screen Templates

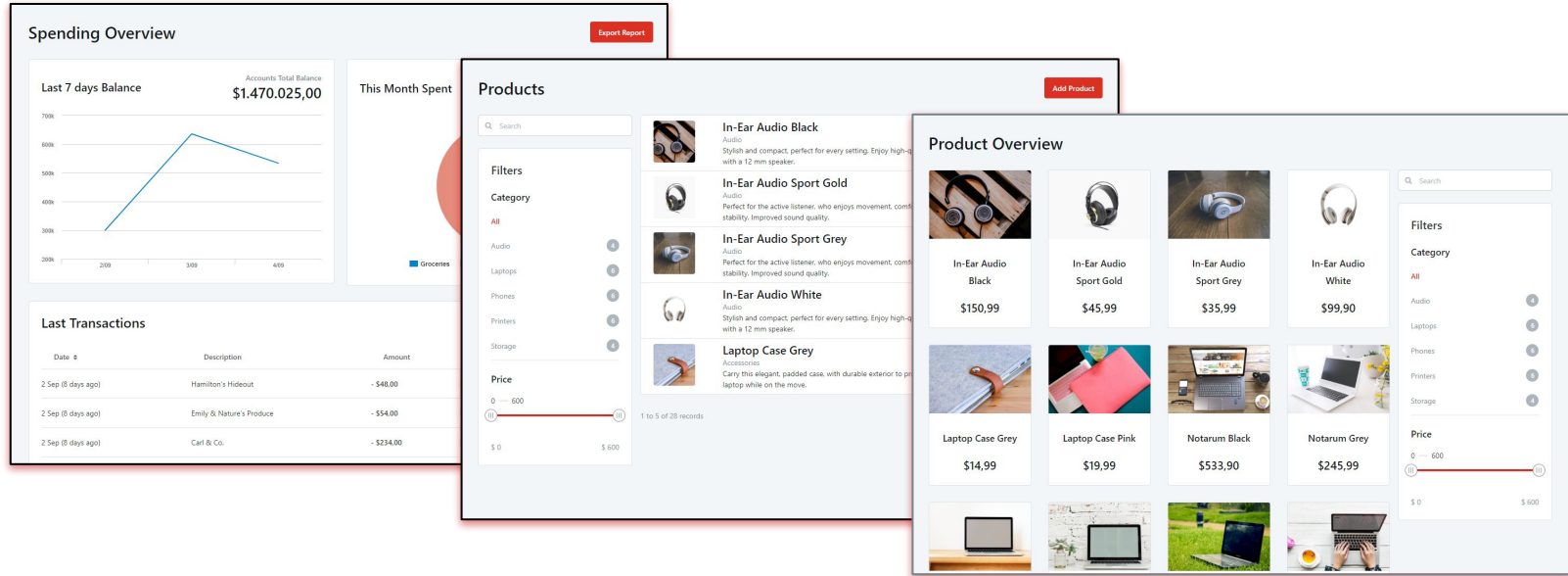


## Scaffolding Patterns



# Screen Templates

Pre-built Screens that implement typical scenarios with logic and data



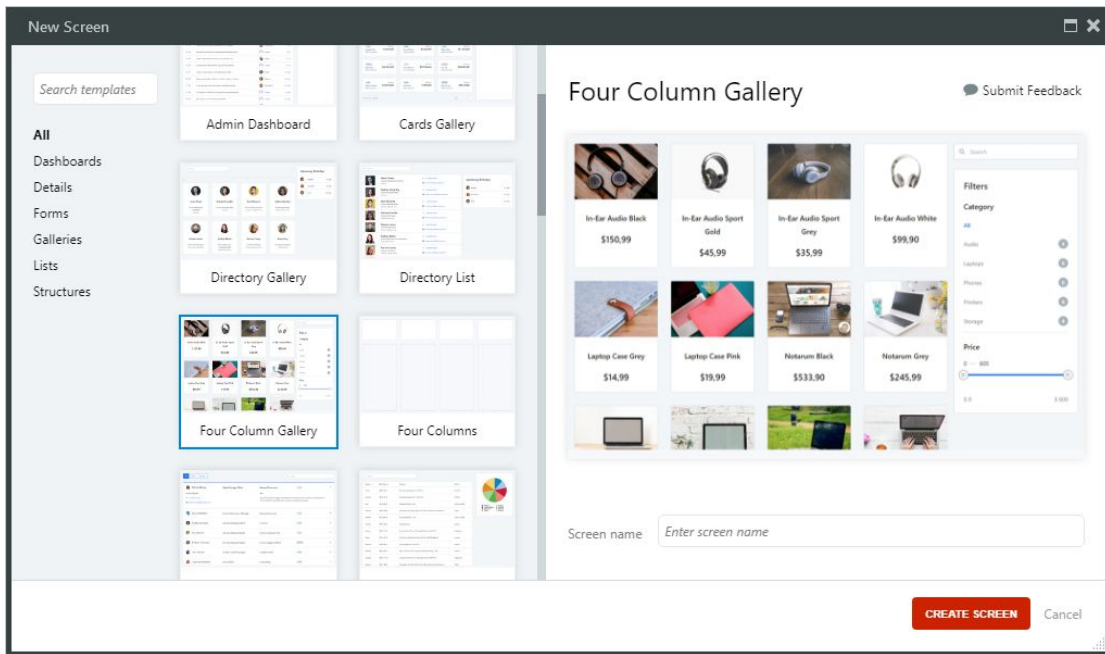
# Using a Template to create a Screen

The created Screen is a copy of the template including all the layouts, widgets, styles and logic

- Built with OutSystems UI
- Can be published and used immediately
- Speeds up development

The Screen uses **sample data** to populate the UI & enable logic

- Will be replaced by your data



# Sample Data

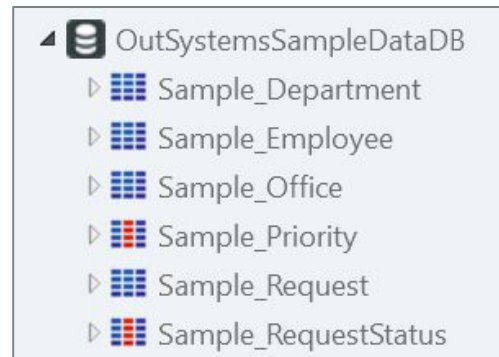
Consists of example entities and records that support the scenarios implemented in the screen templates

Used on Screens created from Templates

- OutSystemsSampleDataDB module (dependency)

Backoffice available to view, import and reset data

- <http://<yourserver>/OutSystemsSampleData>



# Replacing Sample Data

Sample data can be replaced by real data

The screenshot displays the OutSystems IDE interface for a 'Customer Orders' application. The main workspace shows a 'Request List' screen with a search bar and a filter dropdown set to 'Select Priority'. Below these is a table with the following data:

Request Name	Priority	Due Date	Assigned To
I noticed some erratic behavior from my screen.	High	1 Jul	Andrea
I noticed some erratic behavior from my screen.	High	1 Jul	Andrea
I noticed some erratic behavior from my screen.	High	1 Jul	Andrea

The right-hand pane shows the project structure, including 'CustomerOrders', 'Entity Diagrams', 'CustomerOrdersDataModel', 'Entities', 'Database', 'Menuitem', 'MenuSubItem', 'System', 'Charts', 'CustomerOrdersData', 'Customer', 'Employee', 'Order', 'OrderProduct', 'OrderStatus', 'Priority', 'Product', 'OutSystemsUIWeb', 'RichWidgets', 'SampleDataDB', and 'Sample\_Department'.



# How “Replace Data” Works

Drag and drop an Entity to a widget that supports automatic data replacement

- Form, List / Table Records, etc.

Service Studio maps the fields from the Sample Entity to the real Entity

- Name or data type
- May not result in “optimal” matches

Also works on Screens **not** based on Templates

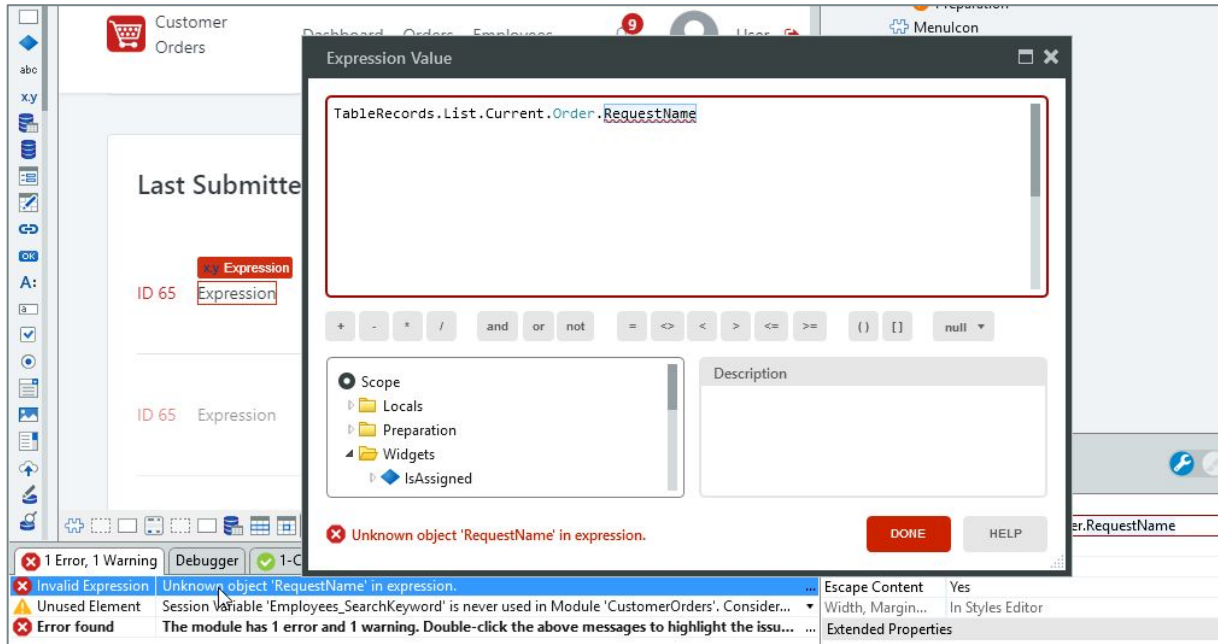




# After the Replace Data

Use TrueChange to find the errors and warnings and fix them to use the real data

- Delete unnecessary information
- Check the mappings that did not cause an error



# Scaffolding Patterns

Scaffolding patterns provide automation for data driven screens

- Create Screens and logic in a few clicks
- Good starting point for building applications
- Allow further customization to the end-user needs

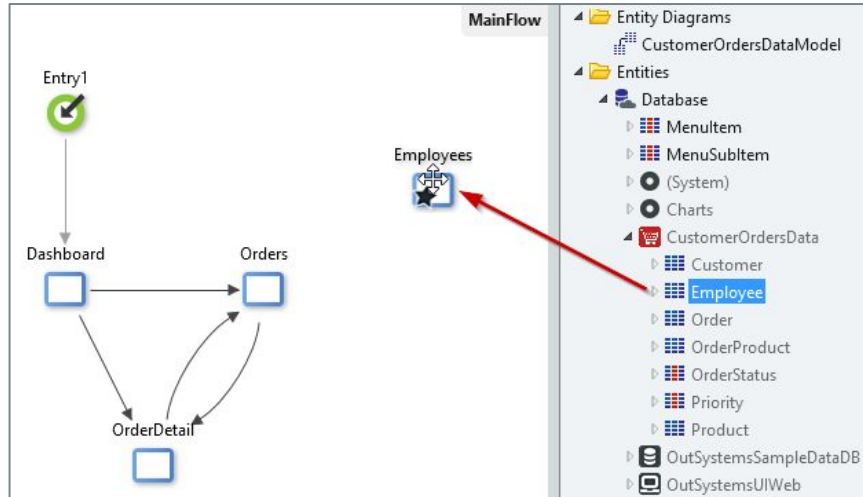
Scaffolding patterns allow creating:

- List and Detail Screens
- Detail Lists in a Master Screen
- Contextual Popup Info Balloons
- And more...

# List Screen

Dragging an Entity to a UI Flow creates a List Screen

Logic and UI are automatically created, but can be modified



## Employees

First Name <sup>z</sup> ↓	Last Name <sup>z</sup> ↓	Birth Date <sup>z</sup> ↓	Email <sup>z</sup> ↓
FirstName	LastName	1986/12/14	brandon.smith@ordersapp.com
FirstName	LastName	1986/12/14	brandon.smith@ordersapp.com
FirstName	LastName	1986/12/14	brandon.smith@ordersapp.com

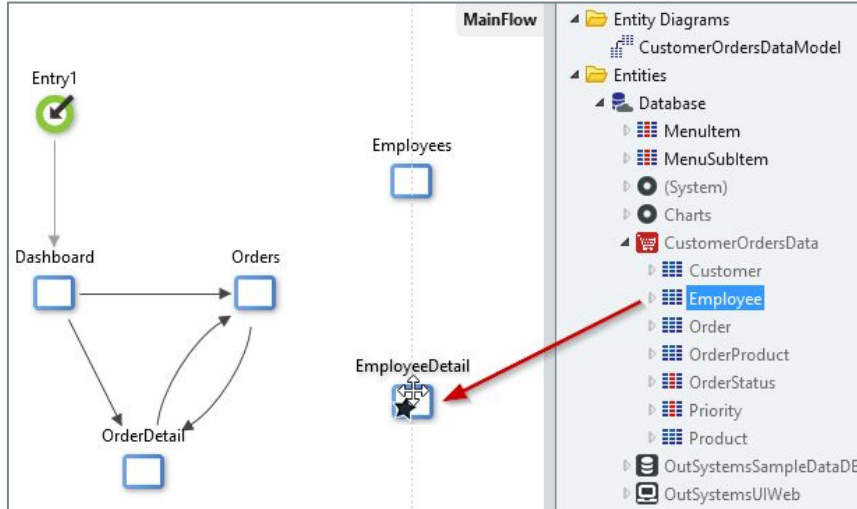
51 to 100 of 721 records

...

# Detail Screen

Dragging an Entity to a UI Flow for the second time creates a Detail Screen

Logic and UI are automatically created, but can be modified



The screenshot shows a 'New Employee' form titled 'New Employee' with a subtitle 'FirstName'. The form is titled 'EmployeeForm' and contains several input fields: 'First Name', 'Last Name', 'Birth Date' (with a calendar icon), 'Email', and 'Phone'. The form is designed with a light blue background and white input fields.

# Summary

- Screen Templates
  - Creating Template-based Screens
  - Sample Data
  - Replace Data
- Scaffolding Patterns
  - List Screen
  - Detail Screen



**Accelerating UI Development**  
**Thank You!**