



# UI Development

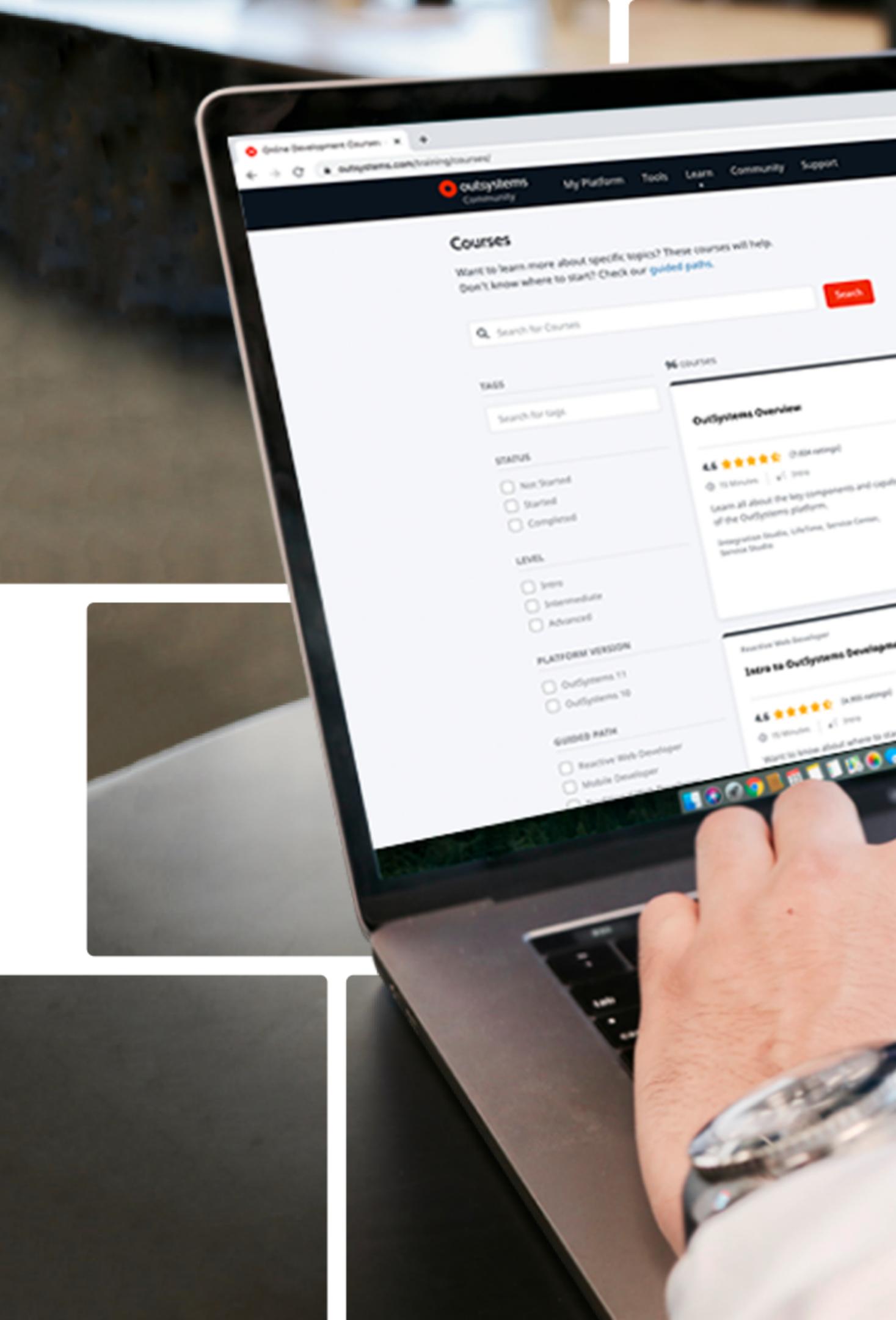
What is a Screen?

Screen Templates

Screen Widgets

Screen Variables and Inputs

Client-side Logic

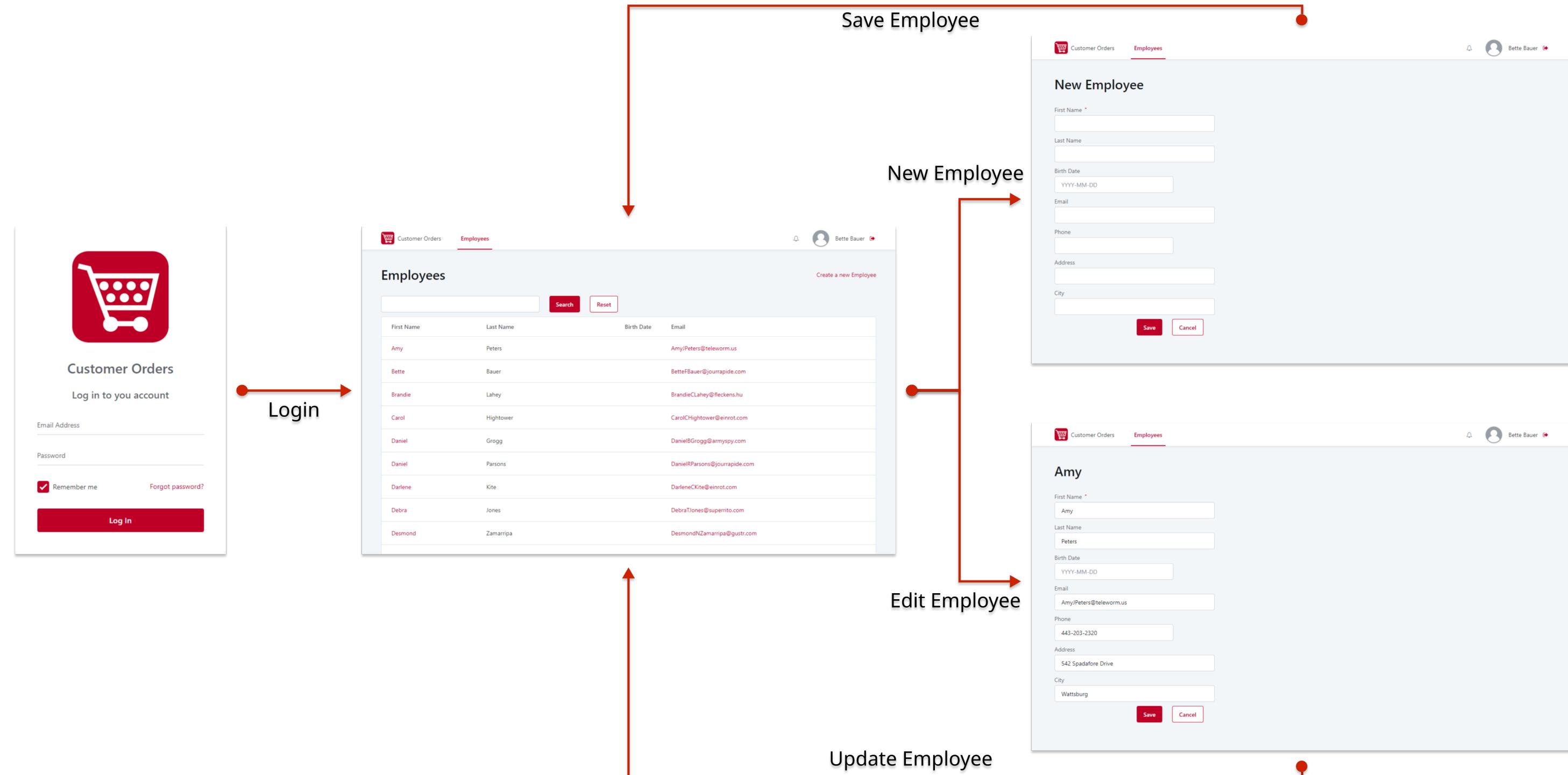


# Screen Flow

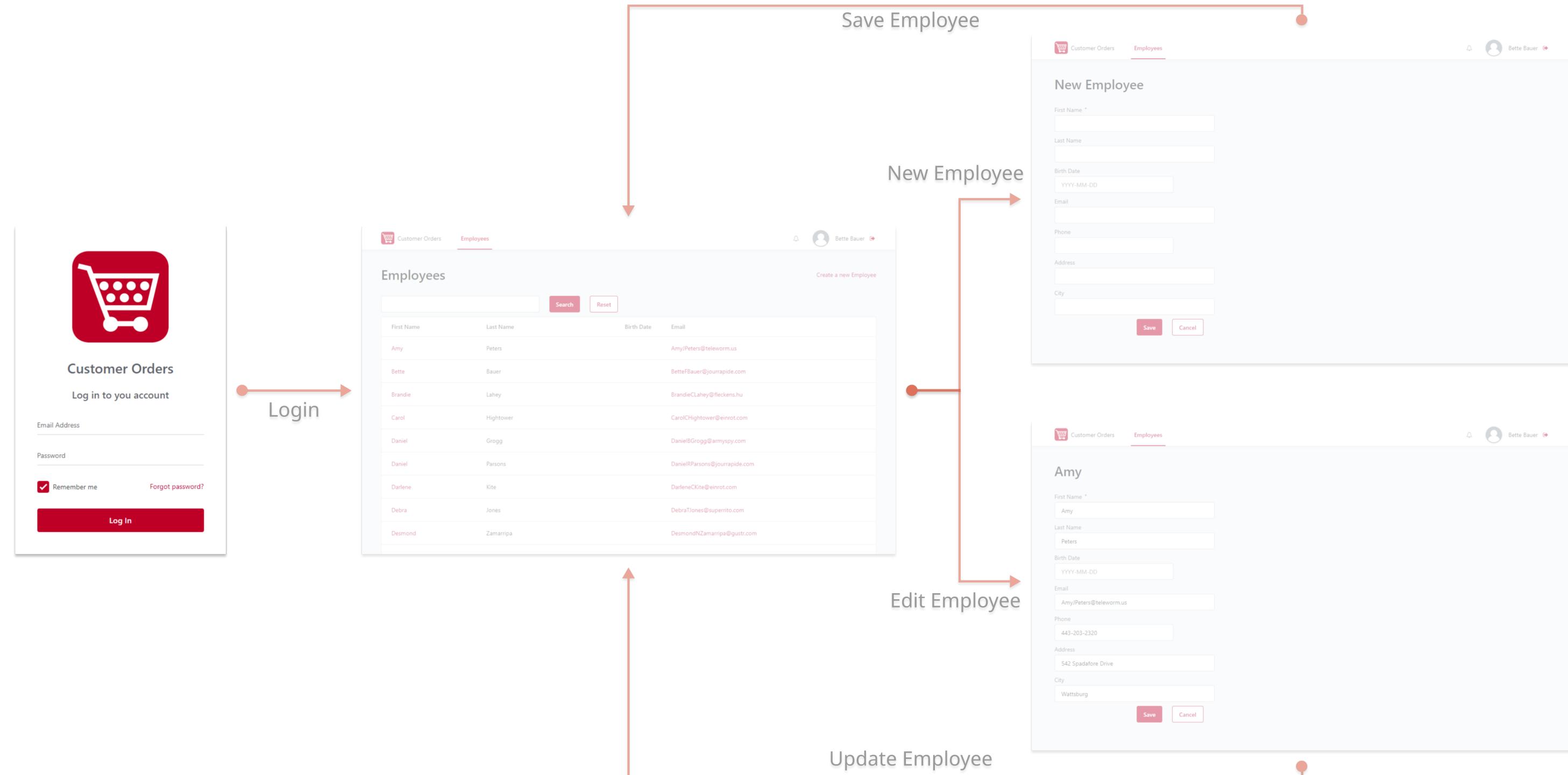
The image displays four screenshots of a web application interface, likely built using OutSystems, illustrating a user flow for managing customer orders and employees.

- Login Screen:** The first screenshot shows the "Customer Orders" login page. It features a red shopping cart icon, a title "Customer Orders", and a "Log in to your account" button. Below the button are fields for "Email Address" and "Password", and checkboxes for "Remember me" and "Forgot password?". A prominent red "Log In" button is at the bottom.
- Employee List:** The second screenshot shows the "Employees" list page. The title is "Employees". It includes a search bar with "Search" and "Reset" buttons, and a "Create a new Employee" link. The list table has columns for First Name, Last Name, Birth Date, and Email. Data rows include Amy Peters, Bette Bauer, Brandie Lahey, Carol Hightower, Daniel Grogg, Daniel Parsons, Darlene Kite, Debra Jones, and Desmond Zamarripa.
- New Employee Creation:** The third screenshot shows the "New Employee" creation form. The title is "New Employee". It contains fields for First Name, Last Name, Birth Date (in YYYY-MM-DD format), Email, Phone, Address, and City. There are "Save" and "Cancel" buttons at the bottom.
- Edit Employee Details:** The fourth screenshot shows the "Edit Employee" form for "Amy". The title is "Amy". It displays the same set of fields as the new employee form, with "Amy" and "Peters" pre-filled. The "Save" and "Cancel" buttons are visible at the bottom.

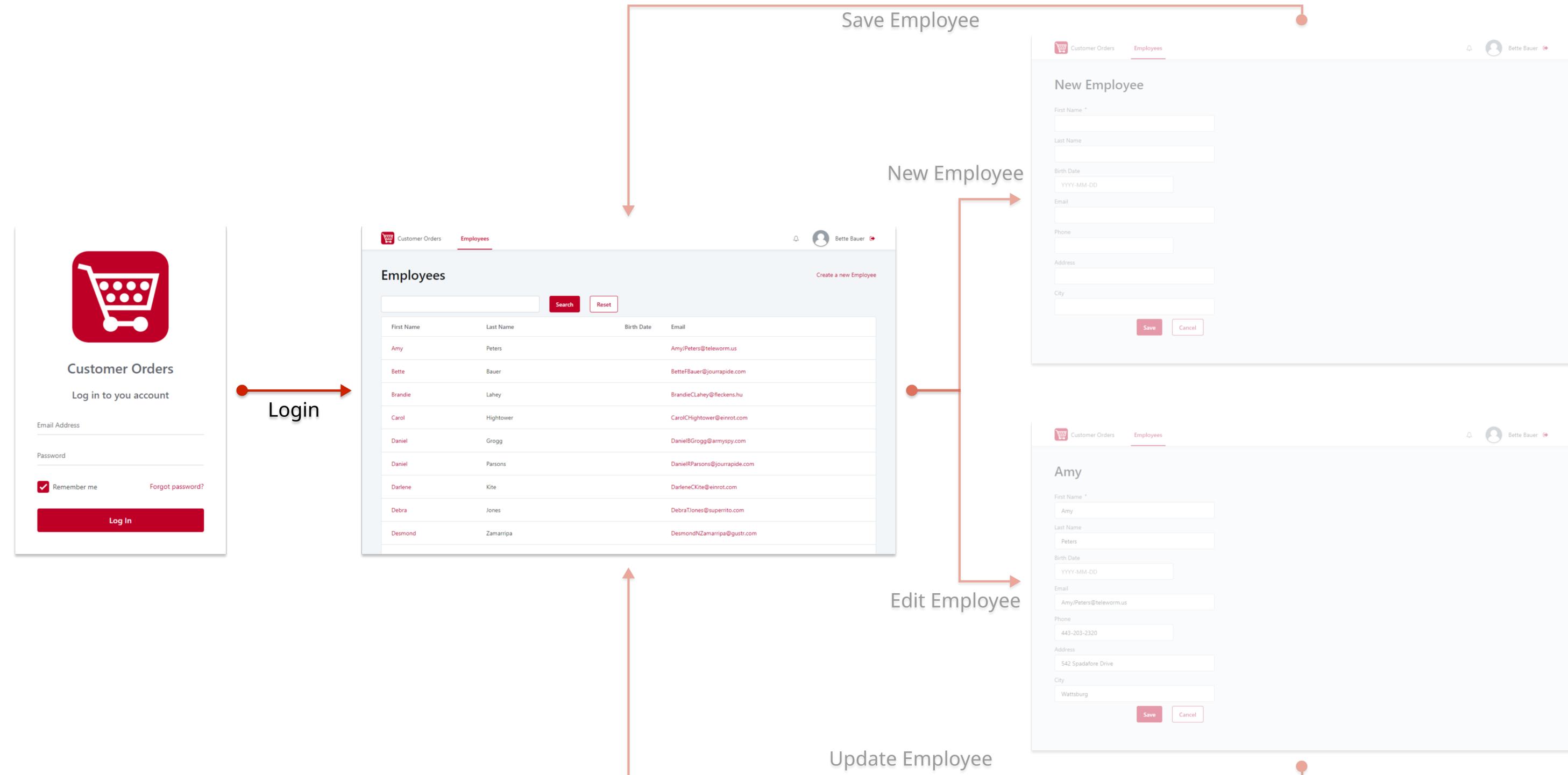
# Screen Flow



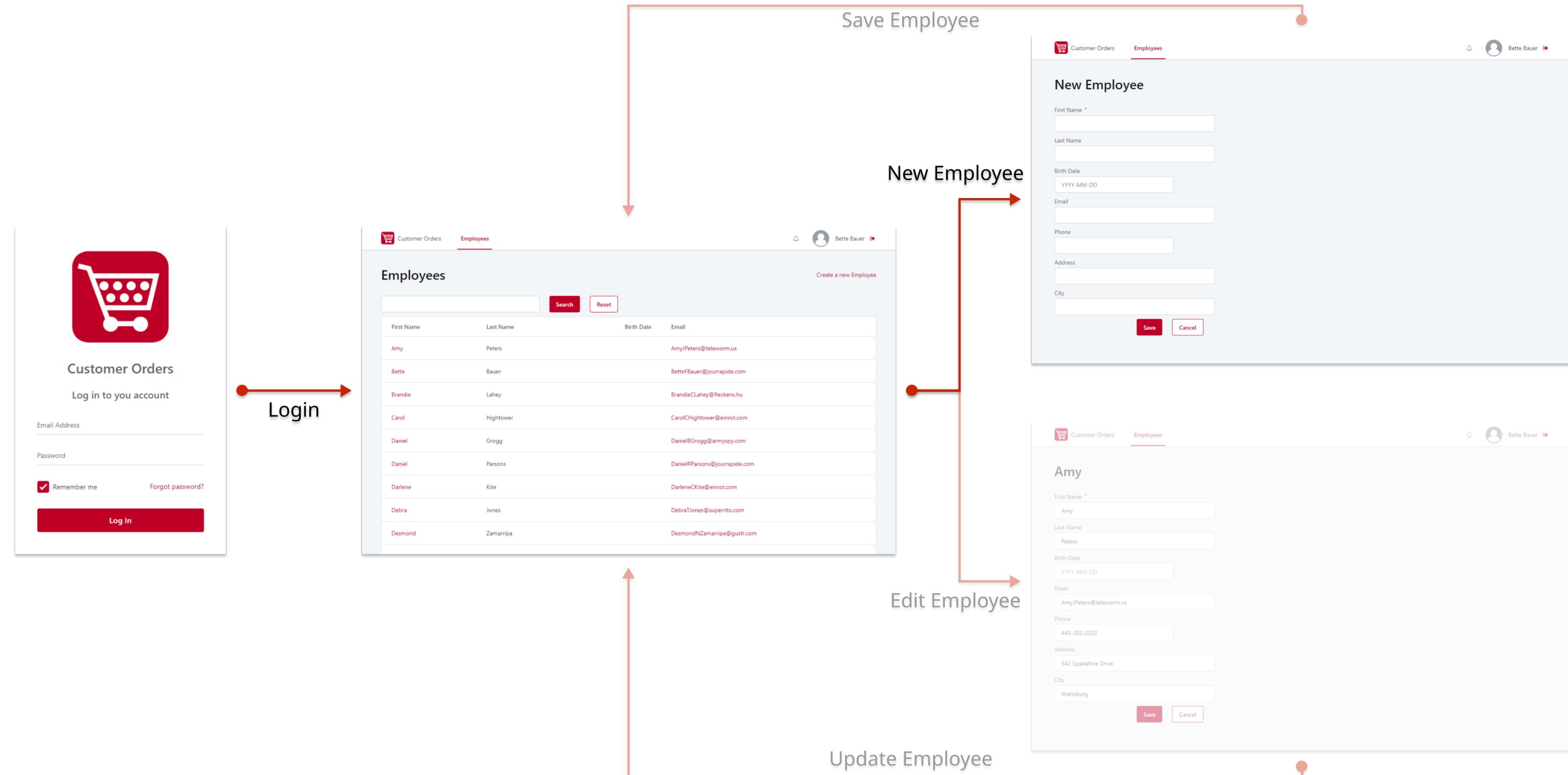
# Screen Flow



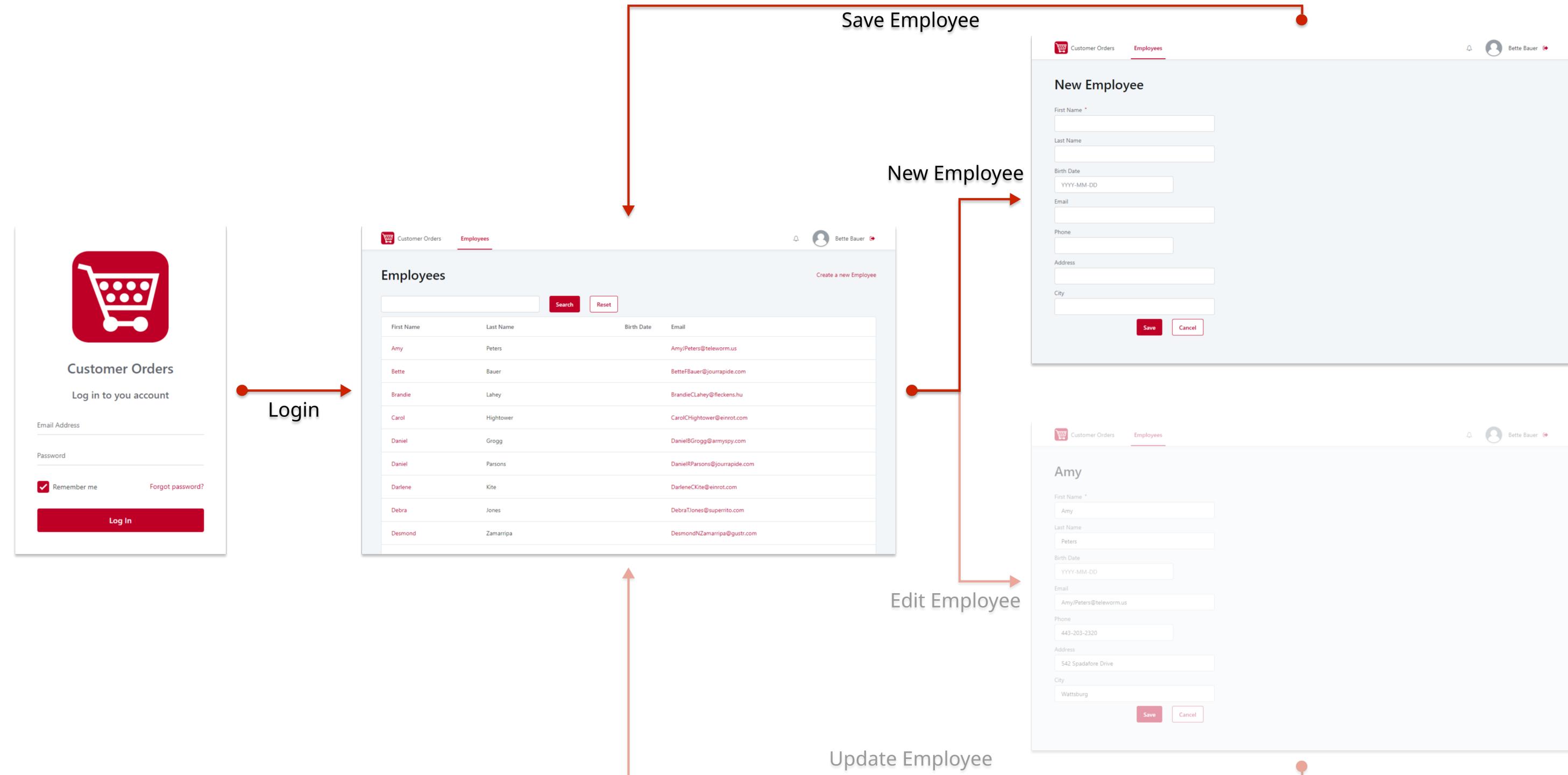
# Screen Flow



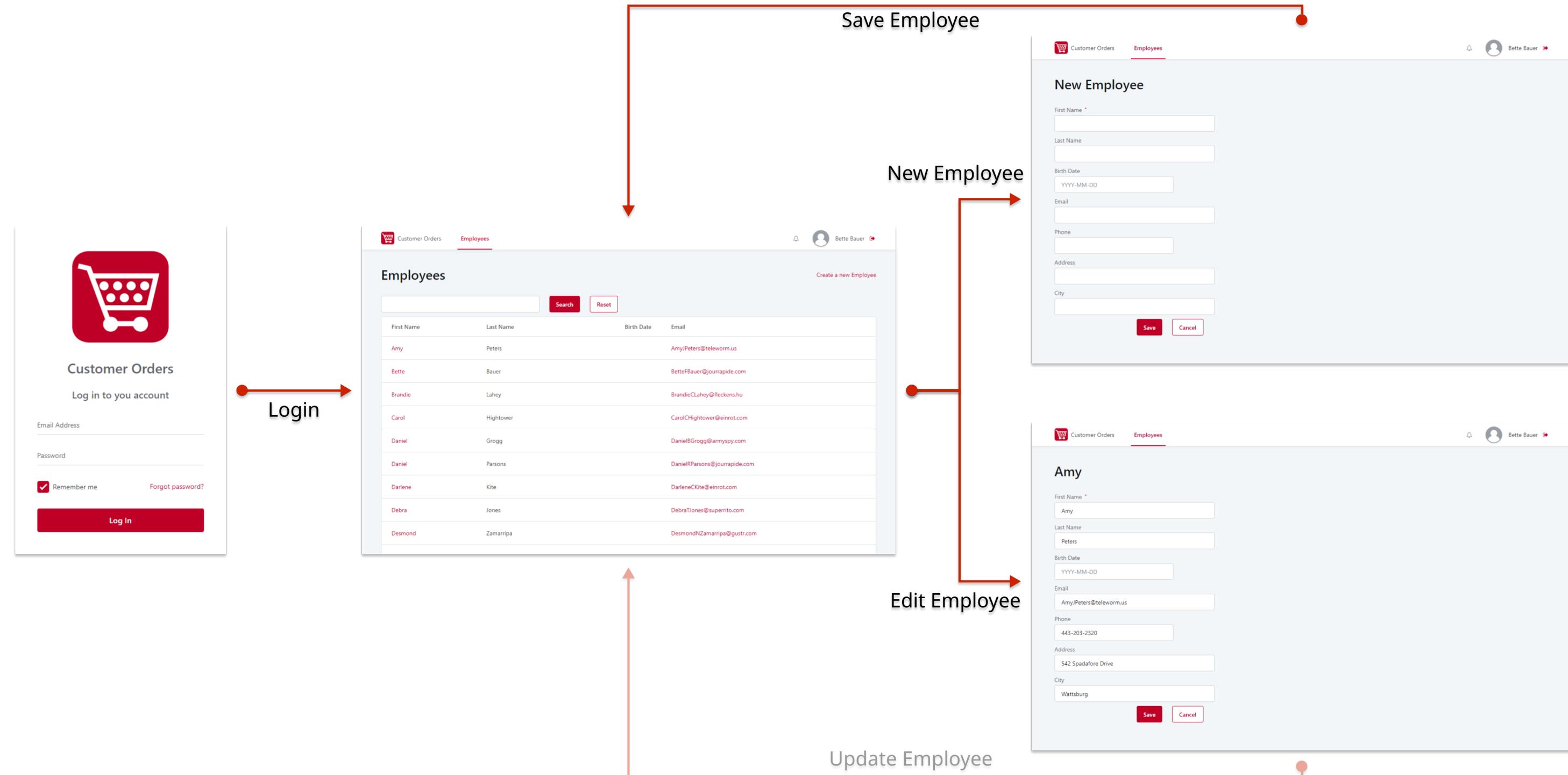
# Screen Flow



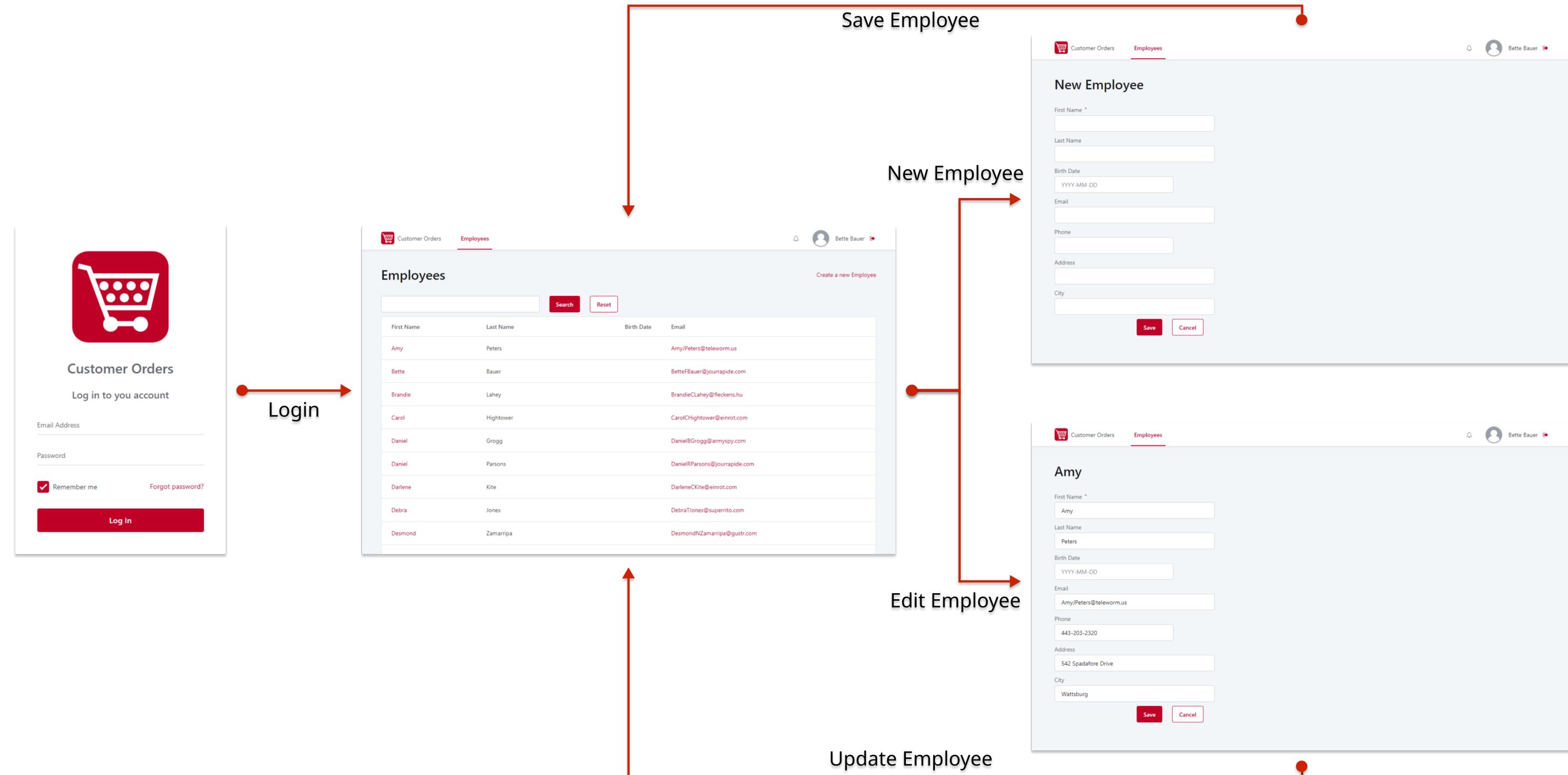
# Screen Flow



# Screen Flow



# Screen Flow



# What is a Screen?

A **Screen** is one of the building blocks for an **interface** that is composed of other elements to create rich interfaces.

# Screen Templates

Screens can start from an empty canvas or be based on a Template



Products				
	Name	Category	Price	Max Stock
<input checked="" type="checkbox"/>	Notarum Black	Laptops	\$533.90	500
<input type="checkbox"/>	Notarum Grey	Laptops	\$245.99	250
<input type="checkbox"/>	Notarum Slim Black	Laptops	\$499.24	325
<input type="checkbox"/>	Notarum Slim Grey	Laptops	\$333.50	200
<input type="checkbox"/>	Notarum Light Black	Laptops	\$433.95	458
<input type="checkbox"/>	Notarum Light Grey	Laptops	\$175.99	250
<input type="checkbox"/>	SSD 1 TB	Storage	\$249.99	325
<input type="checkbox"/>	SSD 2TB	Storage	\$335.99	200
1 to 8 of 28 items				
<span>&lt;</span> <span>1</span> <span>2</span> <span>3</span> <span>4</span> <span>&gt;</span>				

# Screen Widgets

Products					<a href="#">Remove Selected</a>	<a href="#">Add Product</a>
	Name	Category	Price	Max Stock		
<input checked="" type="checkbox"/>	 Notarum Black	Laptops	\$533.90	500		
<input type="checkbox"/>	 Notarum Grey	Laptops	\$245.99	250		
<input type="checkbox"/>	 Notarum Slim Black	Laptops	\$499.24	325		
<input type="checkbox"/>	 Notarum Slim Grey	Laptops	\$333.50	200		
<input type="checkbox"/>	 Notarum Light Black	Laptops	\$433.95	458		
<input type="checkbox"/>	 Notarum Light Grey	Laptops	\$175.99	250		
<input type="checkbox"/>	 SSD 1 TB	Storage	\$249.99	325		
<input type="checkbox"/>	 SSD 2TB	Storage	\$335.99	200		
1 to 8 of 28 items					<a href="#">&lt;&gt;</a>	<a href="#">1</a>
					<a href="#">&lt;&lt;</a>	<a href="#">2</a>
					<a href="#">&lt;&gt;</a>	<a href="#">3</a>
					<a href="#">&lt;&lt;</a>	<a href="#">4</a>

# Screen Widgets

**Products**

**Remove Selected** **Add Product**

-	Name	Category	Price	Max Stock
<input checked="" type="checkbox"/>	 Notarum Black	Laptops	\$533.90	500
<input type="checkbox"/>	 Notarum Grey	Laptops	\$245.99	250
<input type="checkbox"/>	 Notarum Slim Black	Laptops	\$499.24	325
<input type="checkbox"/>	 Notarum Slim Grey	Laptops	\$333.50	200
<input type="checkbox"/>	 Notarum Light Black	Laptops	\$433.95	458
<input type="checkbox"/>	 Notarum Light Grey	Laptops	\$175.99	250
<input type="checkbox"/>	 SSD 1 TB	Storage	\$249.99	325
<input type="checkbox"/>	 SSD 2TB	Storage	\$335.99	200

1 to 8 of 28 items

< 1 2 3 4 >

# Screen Widgets

Products					<a href="#">Remove Selected</a>	<a href="#">Add Product</a>
	Name	Category	Price	Max Stock		
<input checked="" type="checkbox"/>	 Notarum Black	Laptops	\$533.90	500		
<input type="checkbox"/>	 Notarum Grey	Laptops	\$245.99	250		
<input type="checkbox"/>	 Notarum Slim Black	Laptops	\$499.24	325		
<input type="checkbox"/>	 Notarum Slim Grey	Laptops	\$333.50	200		
<input type="checkbox"/>	 Notarum Light Black	Laptops	\$433.95	458		
<input type="checkbox"/>	 Notarum Light Grey	Laptops	\$175.99	250		
<input type="checkbox"/>	 SSD 1 TB	Storage	\$249.99	325		
<input type="checkbox"/>	 SSD 2TB	Storage	\$335.99	200		
1 to 8 of 28 items					<a href="#">&lt;&gt;</a>	<a href="#">1</a>
					<a href="#">2</a>	<a href="#">3</a>
					<a href="#">4</a>	<a href="#">&lt;&gt;</a>

# Screen Widgets

Products					<a href="#">Remove Selected</a>	<a href="#">Add Product</a>
	Name	Category	Price	Max Stock		
<input checked="" type="checkbox"/>	 Notarum Black	Laptops	\$533.90	500		
<input type="checkbox"/>	 Notarum Grey	Laptops	\$245.99	250		
<input type="checkbox"/>	 Notarum Slim Black	Laptops	\$499.24	325		
<input type="checkbox"/>	 Notarum Slim Grey	Laptops	\$333.50	200		
<input type="checkbox"/>	 Notarum Light Black	Laptops	\$433.95	458		
<input type="checkbox"/>	 Notarum Light Grey	Laptops	\$175.99	250		
<input type="checkbox"/>	 SSD 1 TB	Storage	\$249.99	325		
<input type="checkbox"/>	 SSD 2TB	Storage	\$335.99	200		
1 to 8 of 28 items					<a href="#">&lt;&gt;</a>	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">&gt;</a>

# Screen Widgets

Products

Remove Selected Add Product

Name	Category	Price	Max Stock
Notarum Black	Laptops	\$533.90	500
Notarum Grey	Laptops	\$245.99	250
Notarum Slim Black	Laptops	\$499.24	325
Notarum Slim Grey	Laptops	\$333.50	200
Notarum Light Black	Laptops	\$433.95	458
Notarum Light Grey	Laptops	\$175.99	250
SSD 1 TB	Storage	\$249.99	325
SSD 2TB	Storage	\$335.99	200

1 to 8 of 28 items

< 1 2 3 4 >

Name	Category	Price	Max Stock
Notarum Black	Laptops	\$533.90	500
Notarum Grey	Laptops	\$245.99	250
Notarum Slim Black	Laptops	\$499.24	325
Notarum Slim Grey	Laptops	\$333.50	200
Notarum Light Black	Laptops	\$433.95	458
Notarum Light Grey	Laptops	\$175.99	250
SSD 1 TB	Storage	\$249.99	325
SSD 2TB	Storage	\$335.99	200

# Screen Widgets

Products					<a href="#">Remove Selected</a>	<a href="#">Add Product</a>
	Name	Category	Price	Max Stock		
<input checked="" type="checkbox"/>	 Notarum Black	Laptops	\$533.90	500		
<input type="checkbox"/>	 Notarum Grey	Laptops	\$245.99	250		
<input type="checkbox"/>	 Notarum Slim Black	Laptops	\$499.24	325		
<input type="checkbox"/>	 Notarum Slim Grey	Laptops	\$333.50	200		
<input type="checkbox"/>	 Notarum Light Black	Laptops	\$433.95	458		
<input type="checkbox"/>	 Notarum Light Grey	Laptops	\$175.99	250		
<input type="checkbox"/>	 SSD 1 TB	Storage	\$249.99	325		
<input type="checkbox"/>	 SSD 2TB	Storage	\$335.99	200		
1 to 8 of 28 items					<a href="#">&lt;&gt;</a>	<a href="#">1</a>
					<a href="#">2</a>	<a href="#">3</a>
					<a href="#">4</a>	<a href="#">&lt;&gt;</a>

# Screen Widgets

Products

Remove Selected Add Product

-	Name	Category	Price	Max Stock
<input checked="" type="checkbox"/>	Notarum Black	Laptops	\$533.90	500
<input type="checkbox"/>	Notarum Grey	Laptops	\$245.99	250
<input type="checkbox"/>	Notarum Slim Black	Laptops	\$499.24	325
<input type="checkbox"/>	Notarum Slim Grey	Laptops	\$333.50	200
<input type="checkbox"/>	Notarum Light Black	Laptops	\$433.95	458
<input type="checkbox"/>	Notarum Light Grey	Laptops	\$175.99	250
<input type="checkbox"/>	SSD 1 TB	Storage	\$249.99	325
<input type="checkbox"/>	SSD 2TB	Storage	\$335.99	200

1 to 8 of 28 items

< 1 2 3 4 >

# Screen Widgets

Products					
	Name	Category	Price	Max Stock	
<input checked="" type="checkbox"/>	Notarum Black	Laptops	\$533.90	500	
<input type="checkbox"/>	Notarum Grey	Laptops	\$245.99	250	
<input type="checkbox"/>	Notarum Slim Black	Laptops	\$499.24	325	
<input type="checkbox"/>	Notarum Slim Grey	Laptops	\$333.50	200	
<input type="checkbox"/>	Notarum Light Black	Laptops	\$433.95	458	
<input type="checkbox"/>	Notarum Light Grey	Laptops	\$175.99	250	
<input type="checkbox"/>	SSD 1 TB	Storage	\$249.99	325	
<input type="checkbox"/>	SSD 2TB	Storage	\$335.99	200	
1 to 8 of 28 items					
<span>&lt;</span> <span>1</span> <span>2</span> <span>3</span> <span>4</span> <span>&gt;</span>					

# Responsive Screen Widgets

CustomerOrders

Administrator

## Products

Name	Category	Price	Max Stock
Notarum Black	Laptops	\$533.90	500
Notarum Grey	Laptops	\$245.99	250
Notarum Slim Black	Laptops	\$499.24	325
Notarum Slim Grey	Laptops	\$333.50	200
Notarum Light Black	Laptops	\$433.95	458
Notarum Light Grey	Laptops	\$175.99	250
SSD 1 TB	Storage	\$249.99	325
SSD 2TB	Storage	\$335.99	200

1 to 8 of 28 items

Remove Selected Add Product

Desktop

CustomerOrders

## Products

Name	Category	Price	Max Stock
Notarum Black	Laptops	\$533.90	500
Notarum Grey	Laptops	\$245.99	250
Notarum Slim Black	Laptops	\$499.24	325
Notarum Slim Grey	Laptops	\$333.50	200
Notarum Light Black	Laptops	\$433.95	458
Notarum Light Grey	Laptops	\$175.99	250
SSD 1 TB	Storage	\$249.99	325
SSD 2TB	Storage	\$335.99	200

1 to 8 of 28 items

Remove Selected Add Product

Tablet

CustomerOrders

## Products

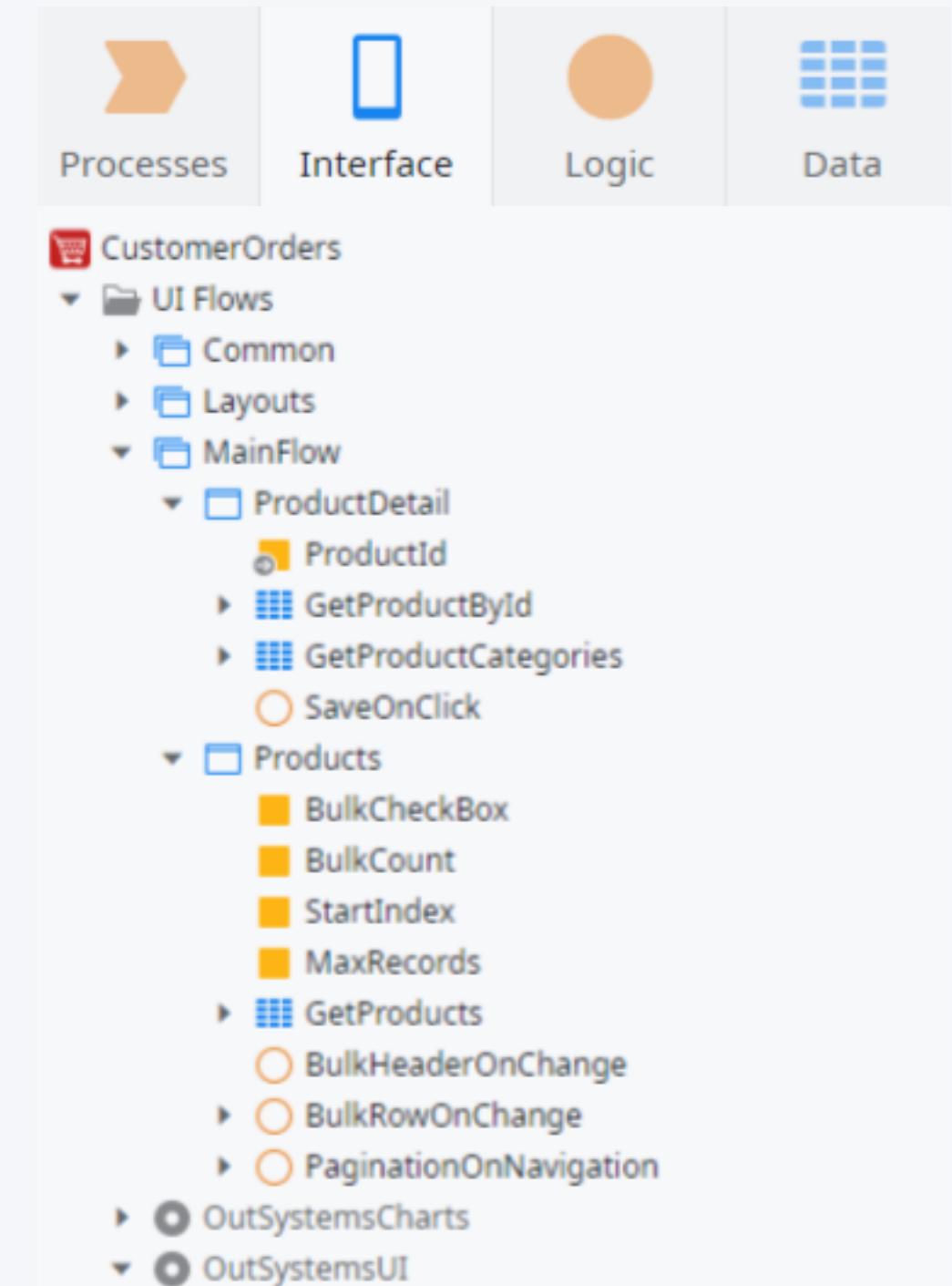
Name	Category	Price	Max Stock
Notarum Black	Laptops	\$533.90	500
Notarum Grey	Laptops	\$245.99	250

Remove Selected Add Product

Phone

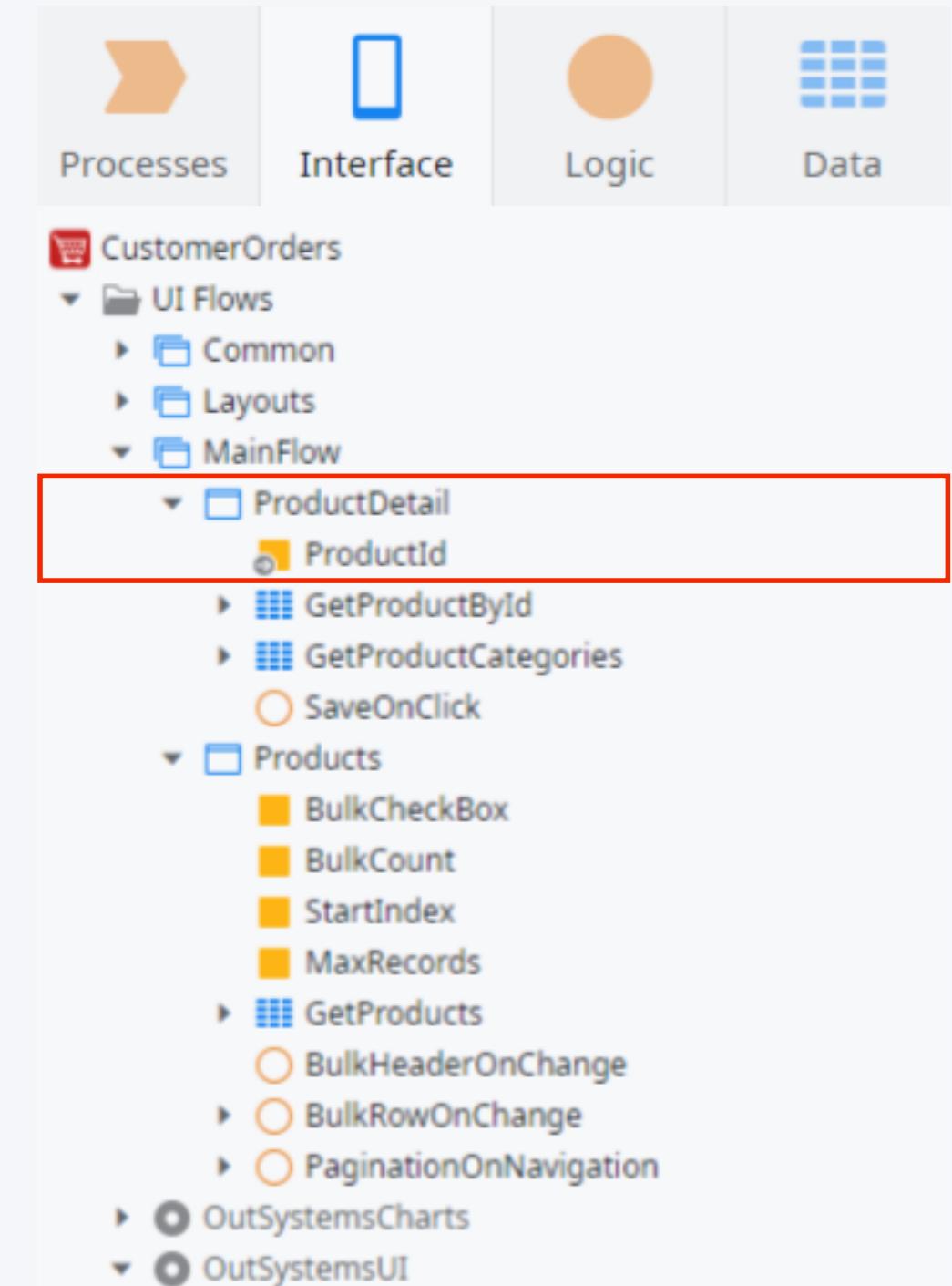
# Screen Inputs and Variables

- What is displayed to the end-user can depend on data



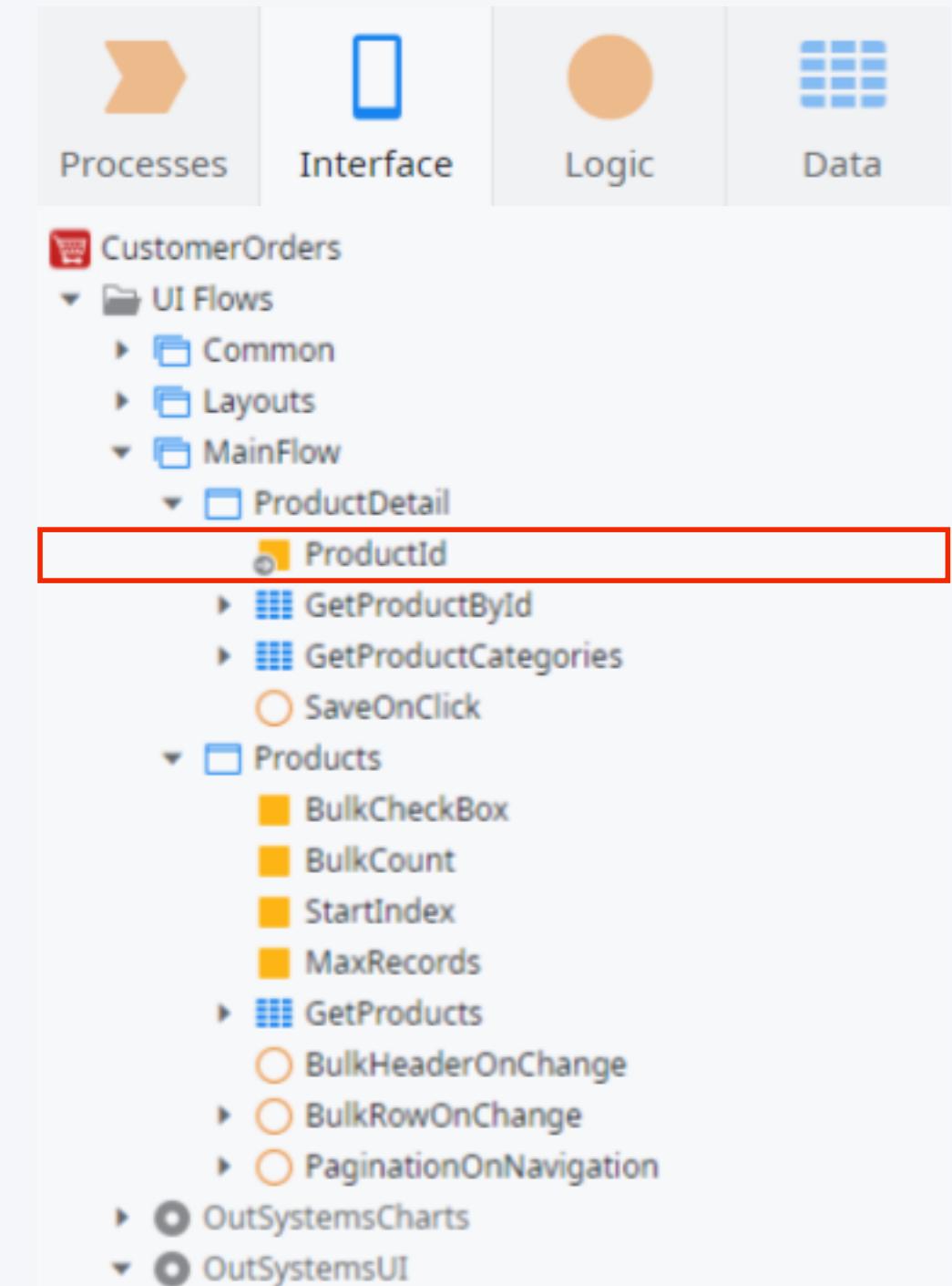
# Screen Inputs and Variables

- What is displayed to the end-user can depend on data



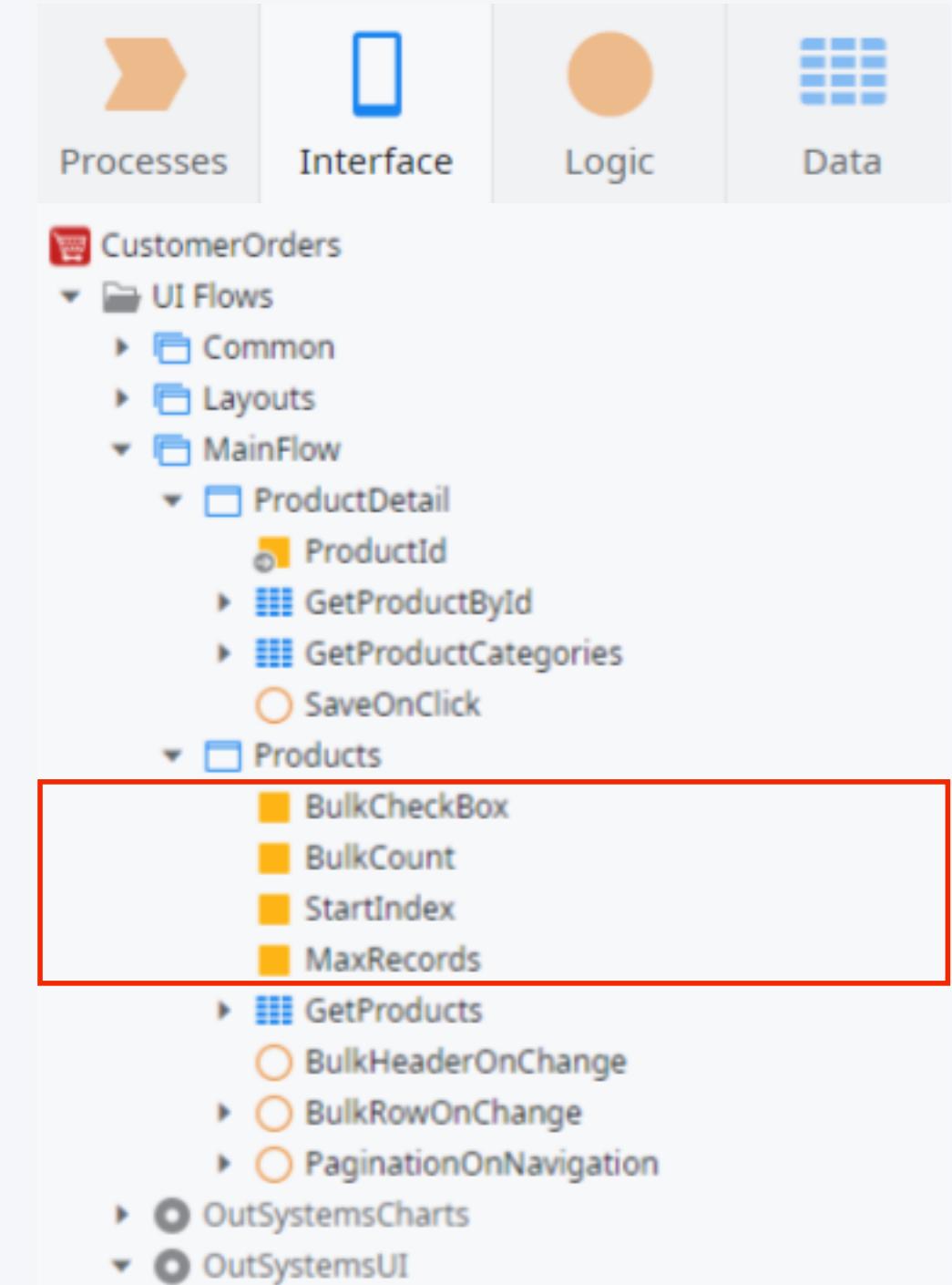
# Screen Inputs and Variables

- What is displayed to the end-user can depend on data
- Some data can be passed to the Screen
  - Input Parameters



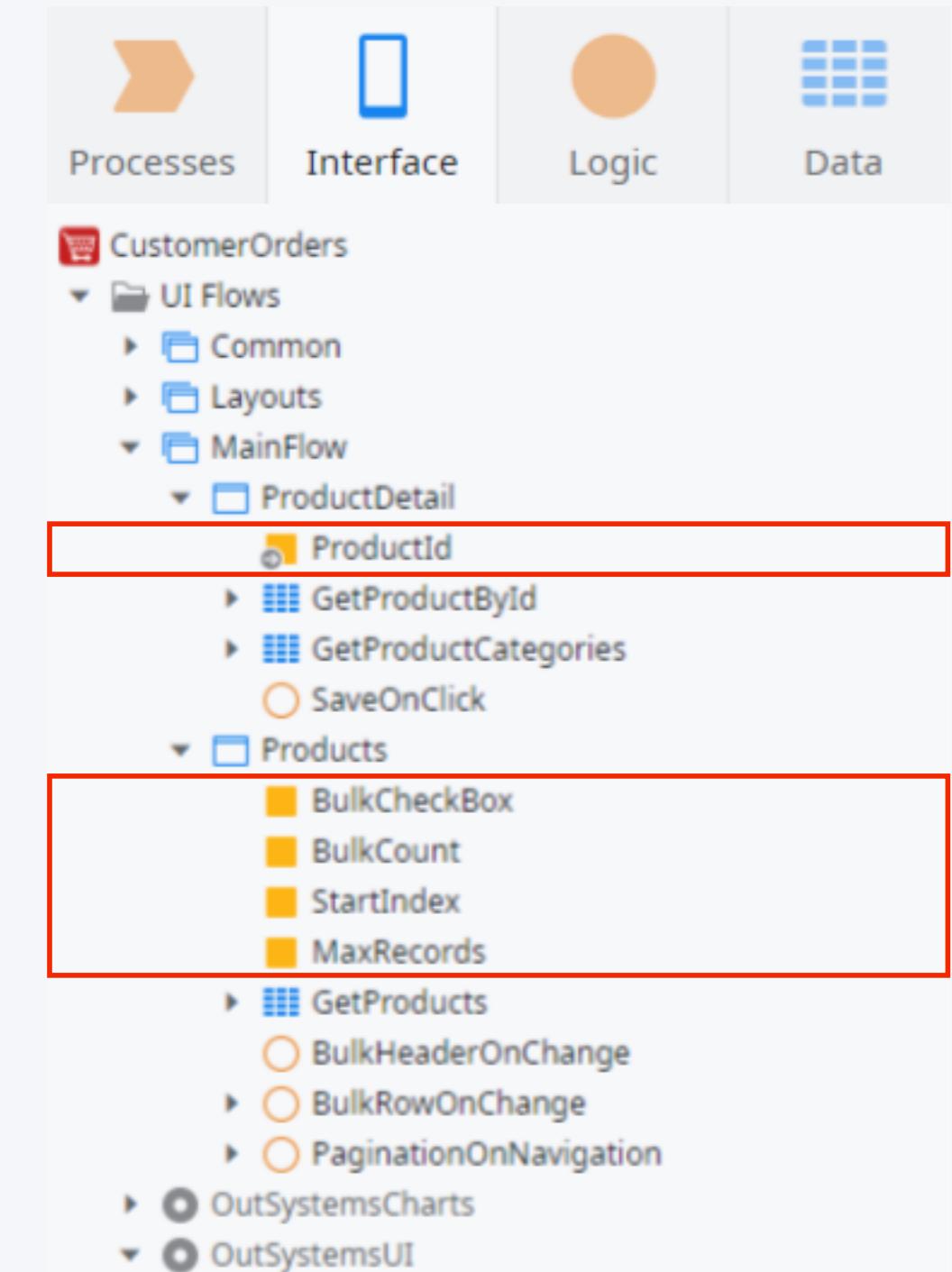
# Screen Inputs and Variables

- What is displayed to the end-user can depend on data
- Some data can be passed to the Screen
  - Input Parameters
- Screens can also have Local Variables
  - Initialized in the scope of the Screen



# Screen Inputs and Variables

- What is displayed to the end-user can depend on data
- Some data can be passed to the Screen
  - Input Parameters
- Screens can also have Local Variables
  - Initialized in the scope of the Screen
- These inputs and local variables only exist in the scope of the Screen



# Button / Link Destination

Notarum Black

Name \*

Description \*

Powerful and reliable, this 15"HD laptop will not let you down, 256GB SSD storage, latest gen.

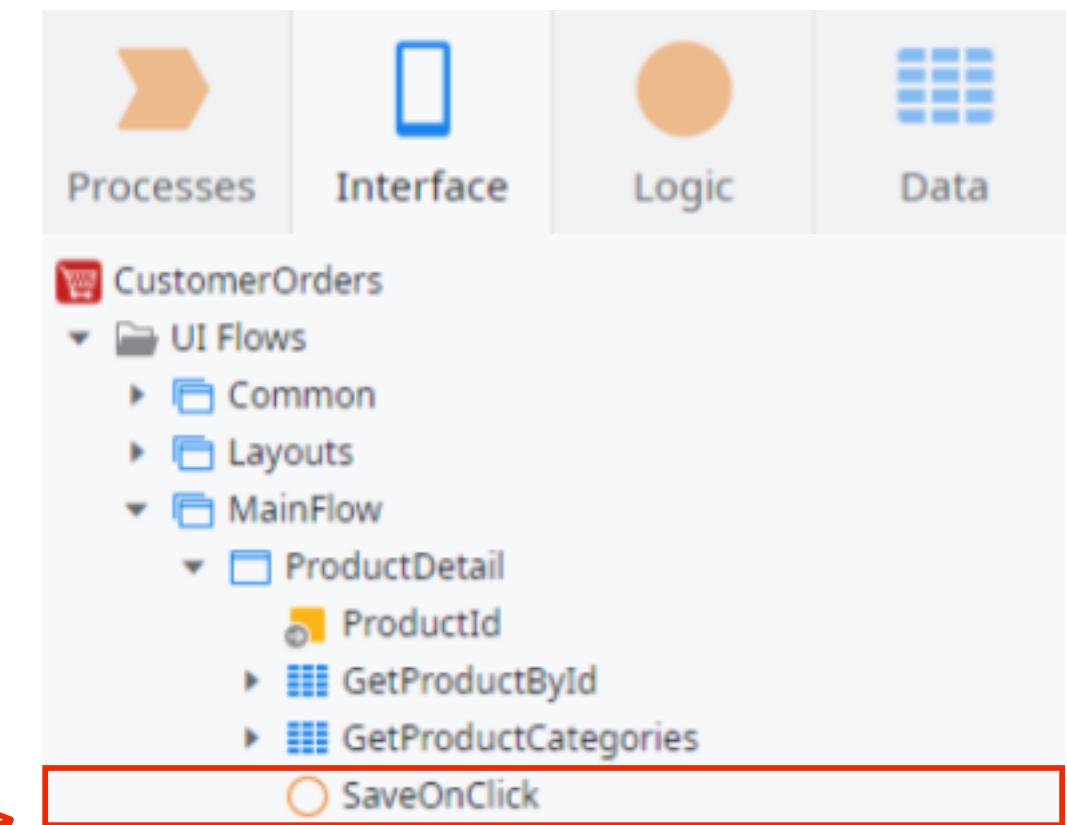
Filename

Created On

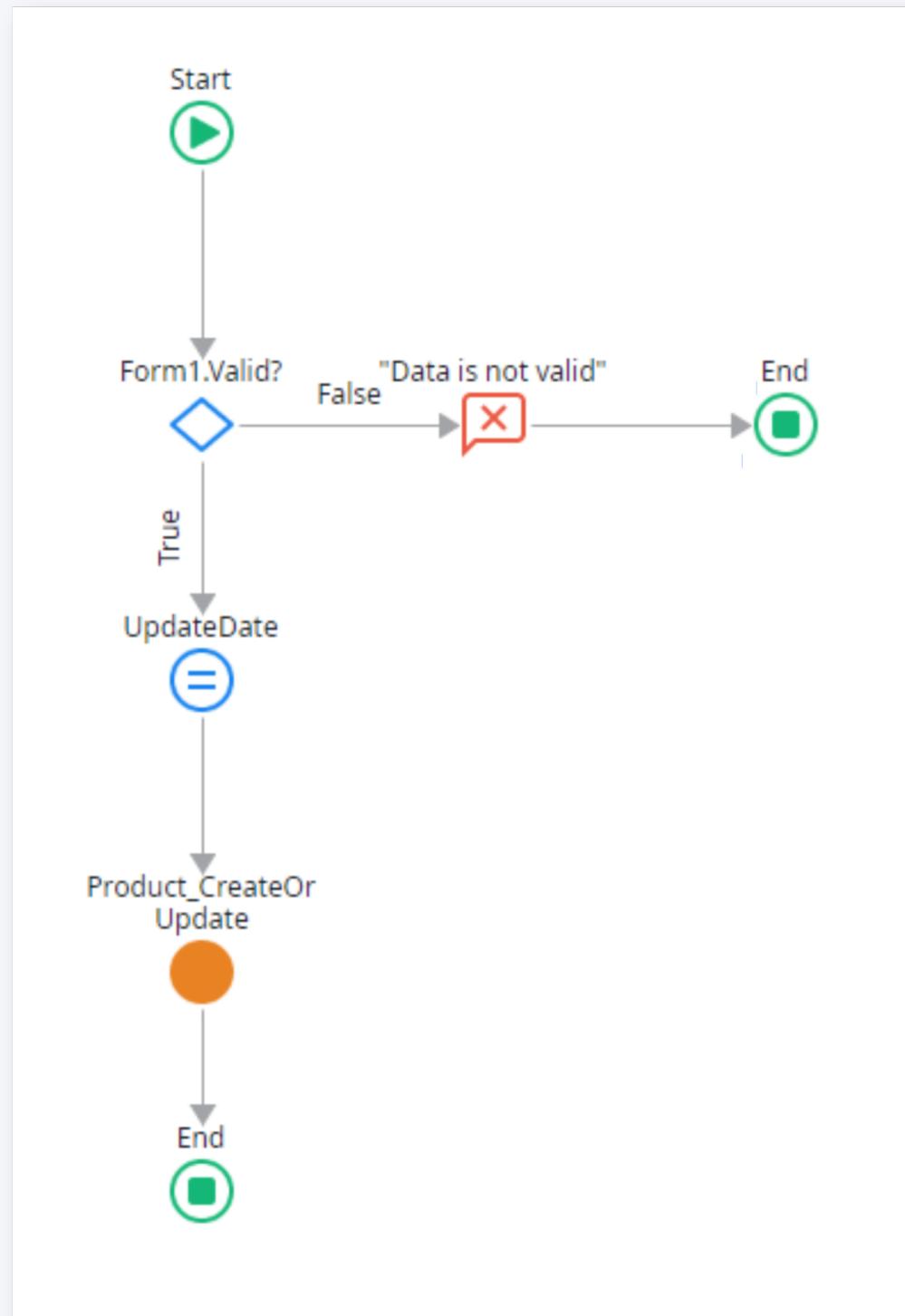
 

Cancel ✕

Save ✓



# Client-side Logic



- Screen Actions run client-side logic in the scope of the Screen
  - Triggered within the Screen
- Client Actions
  - Visually modeled logic and data
  - Easy to call server-side logic
- UI elements immediately react to data changes

# Links and Buttons

- Both widgets have On Click Destinations
  - Screen
  - External URL
  - (Screen) Client Action
  - Event

The image shows two side-by-side property editors for OutSystems components. The left editor is for a 'Link' and the right is for a 'Button'. Both components are set to 'Save' as their destination. The 'Events' tab is selected, specifically the 'On Click' section. A dropdown menu is open, showing several options: 'SaveOnClick' (highlighted in blue), 'Select On Click...', 'Suggestions' (highlighted in blue), 'SaveOnClick' (highlighted in blue again), '(Current Screen)', 'Common\InvalidPerm...', 'Common>Login', 'Common\Splash', 'MainFlow\Products', '(Previous Screen)', 'RedirectToURL (None)', and 'New Client Action'. The 'Link' component has 'True' selected for both 'Enabled' and 'Visible'. The 'Button' component has 'True' selected for 'Enabled' and 'Visible', and 'No' selected for 'Is Form Default'. Both components have 'btn btn-primary' selected for 'Style Classes'.

# Links and Buttons

- Both widgets have On Click Destinations
  - Screen
  - External URL
  - (Screen) Client Action
  - Event
- The main difference between them is in the UI and interaction inside forms

