



Themes and Styling



Topics

- OutSystems Themes
 - Theme definition
- Style Sheets
 - Editing CSS
 - Style Sheet Precedence
 - Applying Styles
- Layouts
 - Theme Web Blocks
 - Layout Block
 - Menu Block

OutSystems Themes

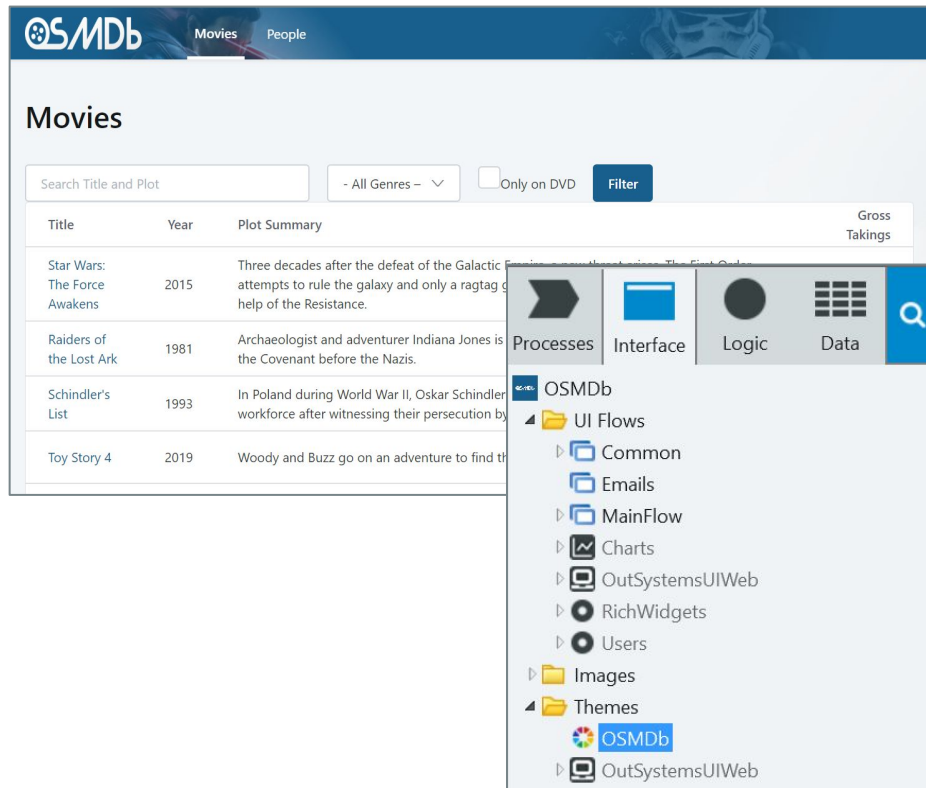
Define the look and feel of your application Screens

Themes can be applied to:

- Modules
- UI Flows

Each module has a default Theme

- New screens are created based on that theme by default



What is a Theme?

A Theme defines the common styling properties for UI elements

- Base Theme
- Style sheet
 - Styles can override Base Theme styles
- Grid Type: Fixed, Fluid or None
- Common building blocks (web blocks)

A Theme can be defined in any module (including *Blank* modules)

- Can be shared between modules
- Modules can have multiple themes for different UI Flows

OSMDb Theme	
Name	OSMDb
Description	...
Public	Yes ▾
Mobile	No ▾
Base Theme	BaseTheme ▾
Style Sheet	/* =====: ...
OnException Handler	
Grid	
Grid Type	Fluid ▾
Columns	12
Gutter Width	30
Min. Width	
Max. Width	1280
Web Blocks	
Layout	Common\Layout ▾
Info Balloon	(None) ▾
Pop-up Editor	Layouts\LayoutPopup ▾
Email	(None) ▾
Header	▾
Menu	Common\Menu ▾
Footer	▾
Images	
True Image	▾
False Image	▾
Info Balloon Image	▾

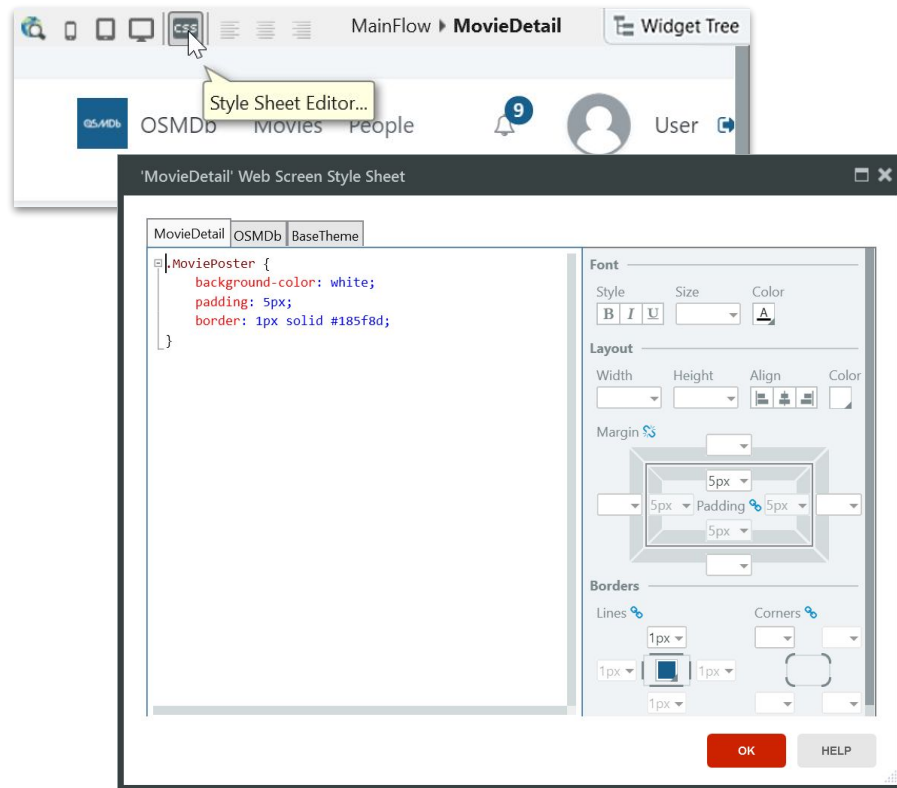
Style Sheets in OutSystems

Style sheets define CSS Style Classes for various types of visual elements and are attached to specific elements, such as:

- Themes
- Web Screens and Emails
- Web Blocks

The Style Sheet Editor in Service Studio provides:

- Syntax highlight
- Auto-complete
- Visual styles editor



Editing CSS

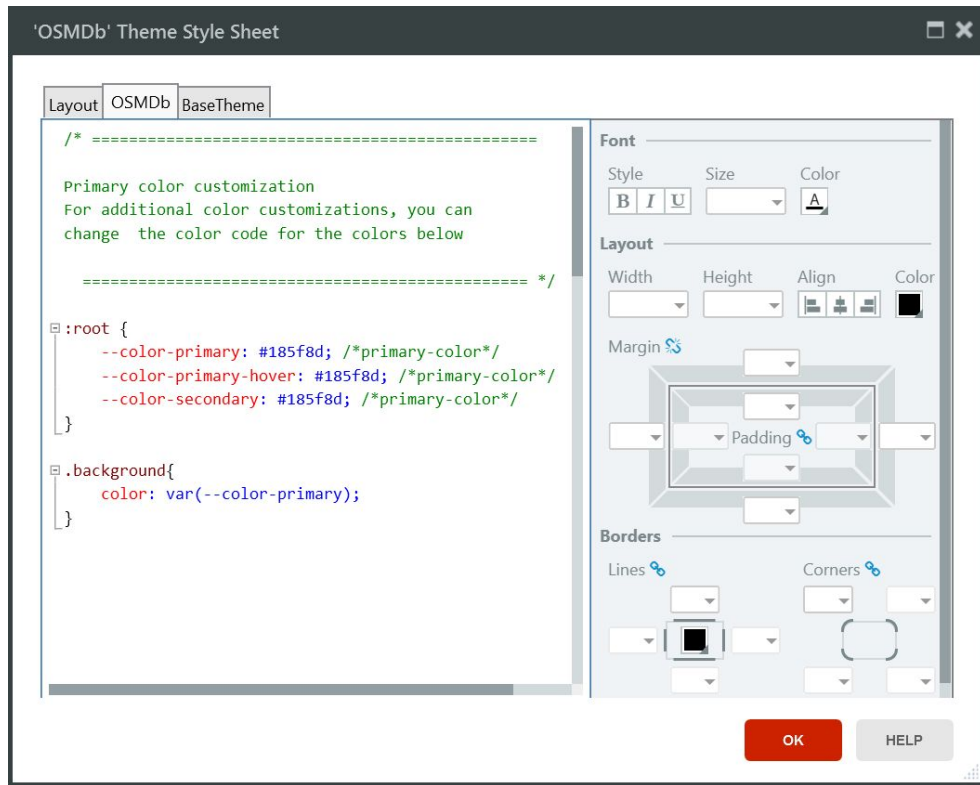
Possible to edit existing CSS Classes

- Except for the Base Theme

Changes are immediately visible in Service Studio

CSS Variables can be used to accelerate customization

- Define a variable and its value
- Use the variable
- Replacing the value affects all usages of the variable



Style Sheet Precedence

- Style Sheets are loaded in the following order in Screens
- Style Classes can be overridden

1. Web Blocks

CSSWebBlock Web Block	
Name	CSSWebBlock
Description	...
Public	No
Icon	Default Icon
Advanced	
Cache in Minutes	
Style Sheet	.TestClass { background-color: green; } ...
JavaScript	...

2. Theme

CSSLoadOrder Theme	
Name	CSSLoadOrder
Description	...
Public	Yes
Mobile	No
Base Theme	BaseTheme
Style Sheet	.TestClass { background-color: yellow; } ...
OnException Handler	

3. Screens and Emails

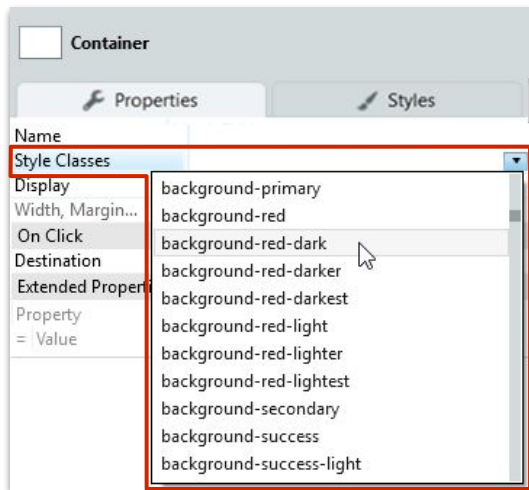
HomeScreen Web Screen	
Name	HomeScreen
Description	...
Public	No
Title	
Roles	
Anonymous	<input checked="" type="checkbox"/>
Registered	<input checked="" type="checkbox"/>
Advanced	
HTTP Security	
Integrated Authenti...	
Cache in Minutes	
Is Frequent Destinat...	No
Style Sheet	.TestClass { background-color: red; } ...
JavaScript	...

```
.TestClass {  
  background-color: red;  
}  
.TestClass {  
  background-color: yellow;  
}  
.TestClass {  
  background-color: green;  
}
```


Applying Styles

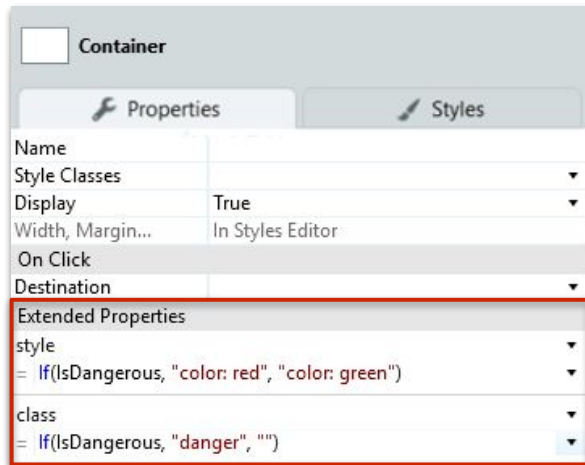
Styles Property

Select existing style classes



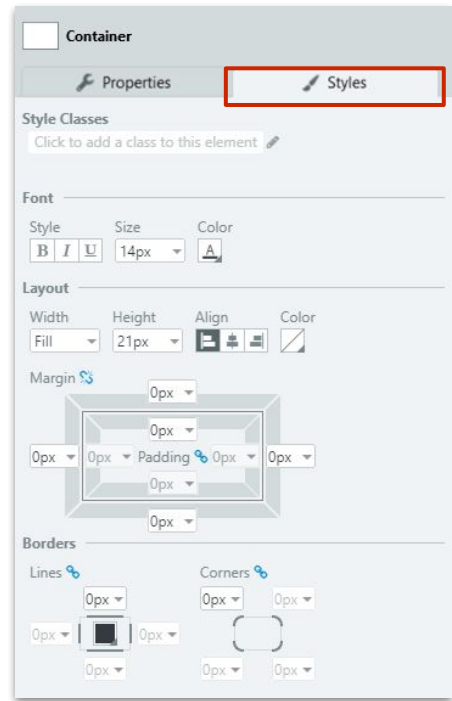
Extended Properties

Define inline styles or classes based on runtime conditions



Styles Editor

Visual CSS editor
Allows promoting to style classes



Theme Web Blocks

Define common layouts:

- Layout Block for new Screens
- Email Block for new Emails
- Header, Menu and Footer are used to fill Layout placeholders with the same name

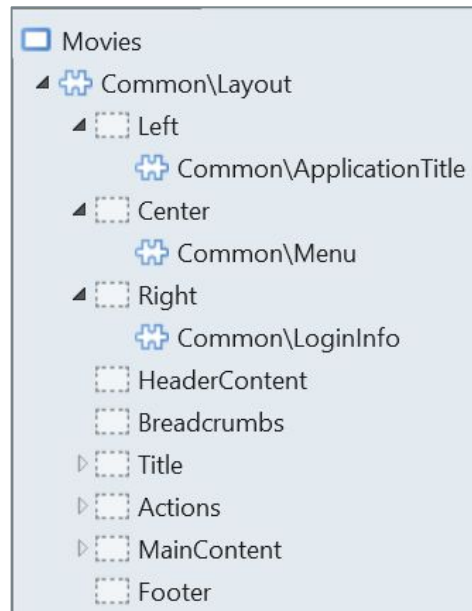
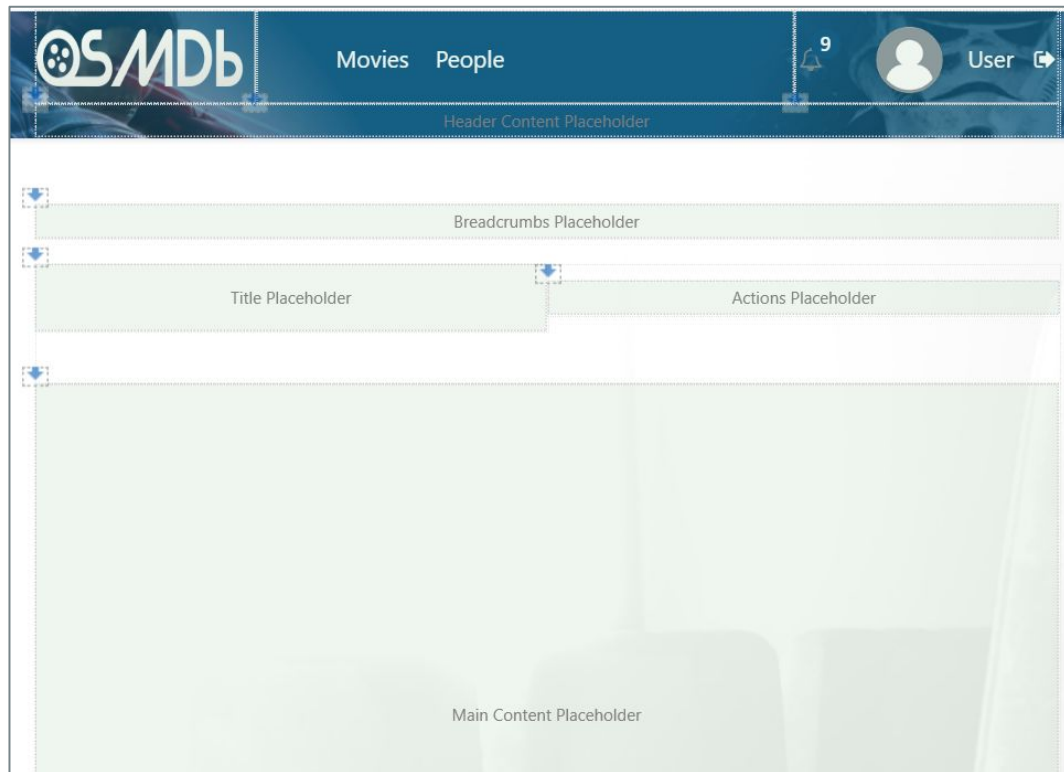
Changing the Theme's Web Block properties only affect new elements

- Screens already created with the previous Layout are not modified

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Footer	▾
Images	
True Image	▾
False Image	▾
Info Balloon Image	▾

Layout Web Block for Screens

Layout Block defines the base structure of new Screens that are created



Menu Block

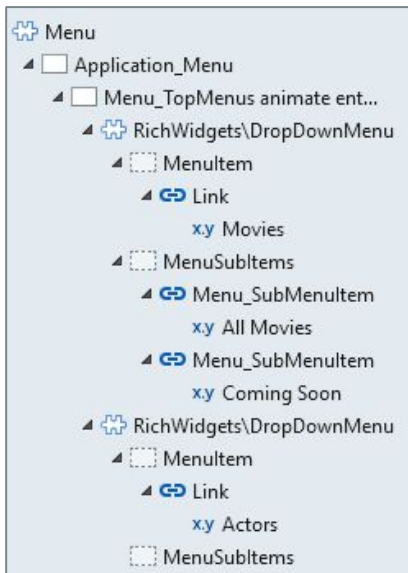
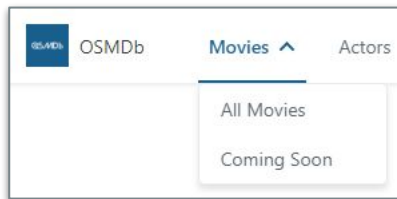
Support for two-levels of menu items

MenuItem and *MenuSubItem* Static Entities hold the Caption (or name) of menu items

Drag and drop a Screen to the Menu:

- Adds a record to the Static Entity
- Adds a DropDownMenu to the Menu Block
- Adds the link containing an expression

Input Parameters are used to highlight active menu and submenu options



Summary

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Themes and Styling
Thank You!