



Week 2: Development Phase I

Unit 2: Explorer – Advanced Declaration

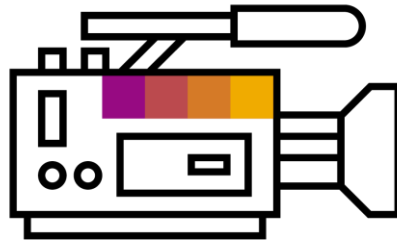
Development Phase



Explorer – Advanced Declaration

Development phase

Declaration Phase: declaration of the entities that Desktop Agent has to interact with/monitor



Advanced Declaration

Studio Explorer: Advanced declaration

Advanced declaration techniques

Page and item relationship

■ Must exist technique

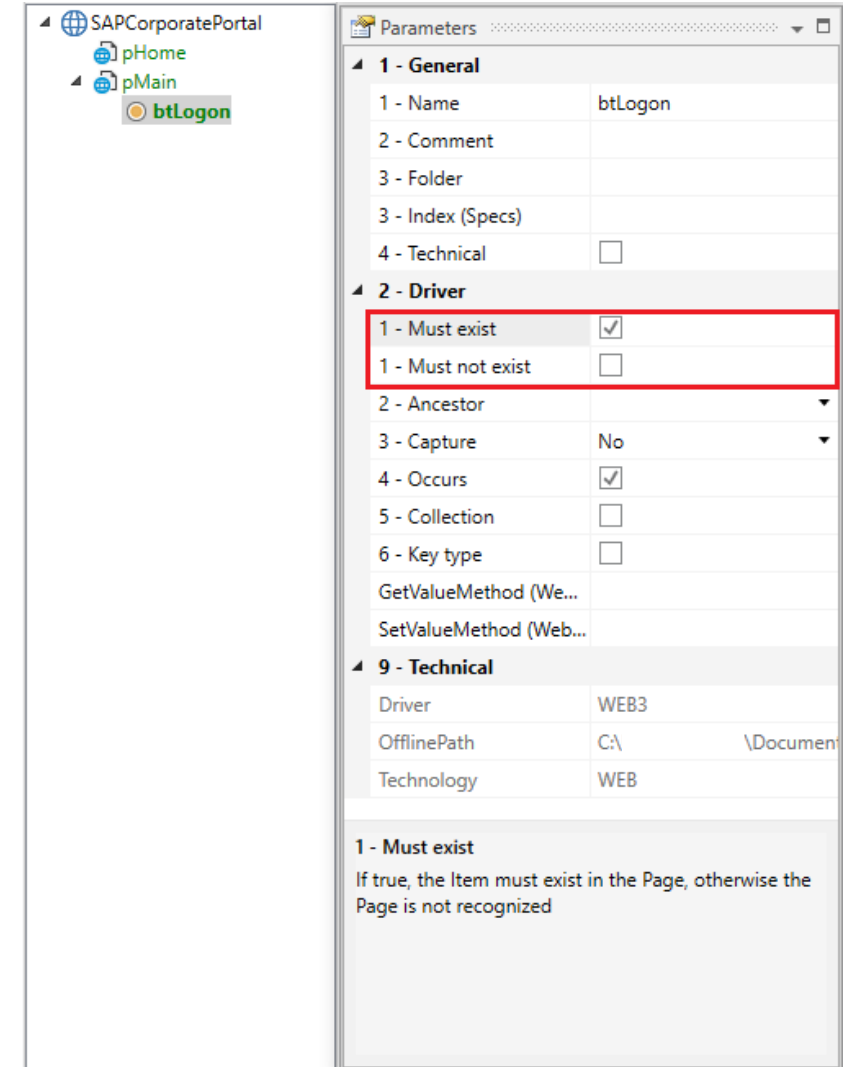
- Requires some item recognition before the page can be recognized
- Available in all technologies

■ Must not exist technique

- Forbids some item recognition, otherwise the page cannot be recognized
- Available only in WEB and UIAutomation technologies

■ Page declaration order

- The first declared page whose criteria match is recognized



Studio Explorer: Advanced declaration

Advanced declaration techniques

Occurred Item

■ Occurs technique

- Set the item as occurred and use the appropriate index value by script
- To declare an occurred item:
 - Set recognition criteria broad enough to match all targeted components
 - Set the 'Occurs' item parameter

- Available only in **WEB**, **UIAutomation**, **HLLAPI**, and **Java**

The screenshot displays the SAP Studio Explorer interface with three main panes:

- Project Explorer:** Shows the project structure with 'SAPCorporatePortal' containing 'pHome', 'pMain', 'btLogon', and 'oMenu'.
- Tree View:** Shows the HTML structure of the page. The 'oMenu' item is highlighted under the 'BODY' element.
- Parameters:** Shows the configuration for the 'oMenu' item. The '4 - Occurs' parameter is checked, indicating that the item is occurred.

Parameters Configuration:

1 - General	
1 - Name	oMenu
2 - Comment	
3 - Folder	
3 - Index (Specs)	
4 - Technical	<input type="checkbox"/>

2 - Driver	
1 - Must exist	<input type="checkbox"/>
1 - Must not exist	<input type="checkbox"/>
2 - Ancestor	
3 - Capture	No
4 - Occurs	<input checked="" type="checkbox"/>
5 - Collection	<input type="checkbox"/>
6 - Key type	<input type="checkbox"/>
GetValueMethod (We...	
SetGetMethod (Web...	

9 - Technical	
Driver	WEB3
OfflinePath	C:\... \Document
Technology	WEB

4 - Occurs

If true, all recognized Items are accessible.
You MUST then access an Item occurrence via its index (0 based).
le : oMyButton[3] points to the 4th recognized Item

If false, only the first recognized is accessible.

Explorer – Advanced Declaration

Advanced declaration techniques

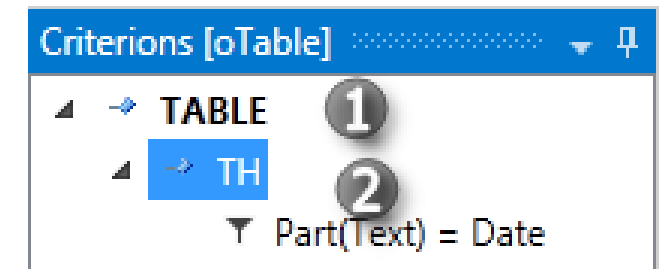
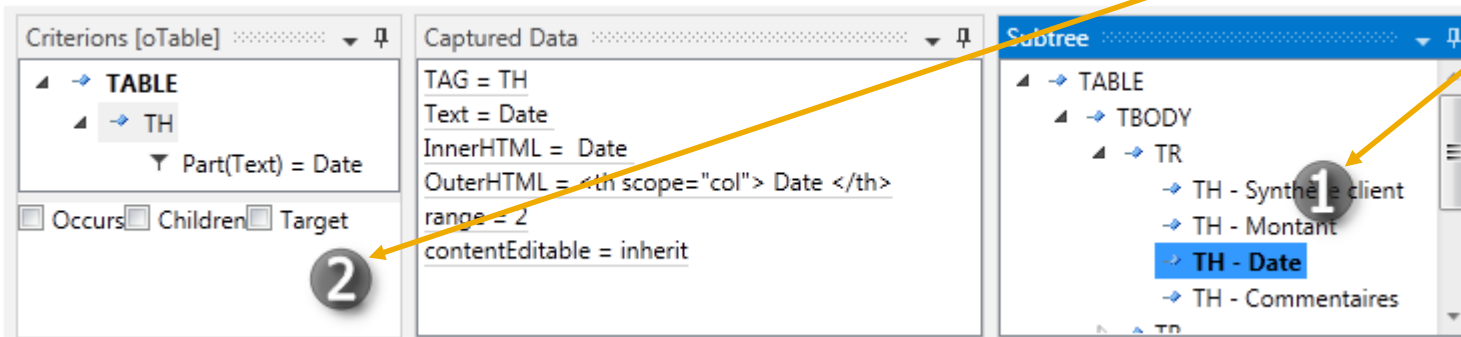
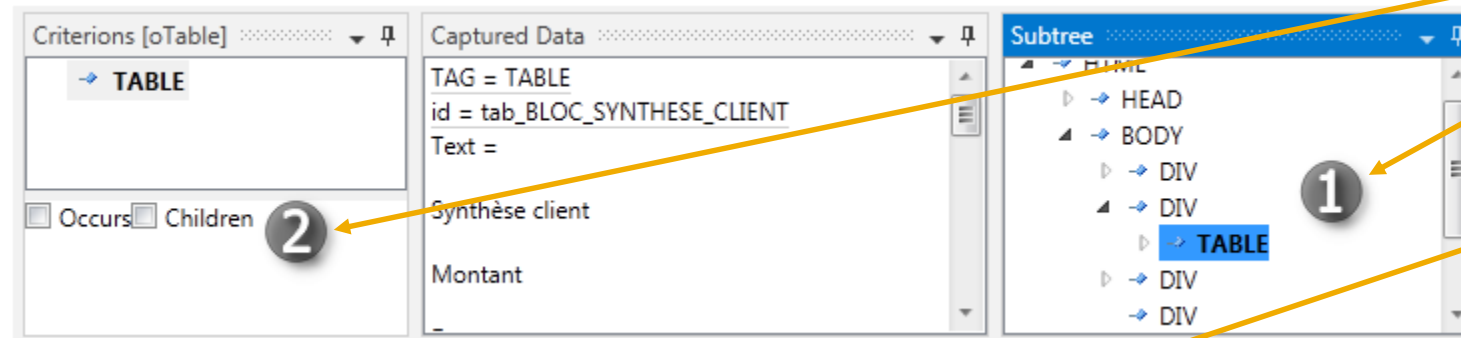
Item Pattern

■ Pattern technique

- Recognize a set of related components, rather than a single component

1. Create the item from the page capture

2. Add a component to the pattern with right-click



Explorer – Advanced Declaration

Advanced declaration techniques

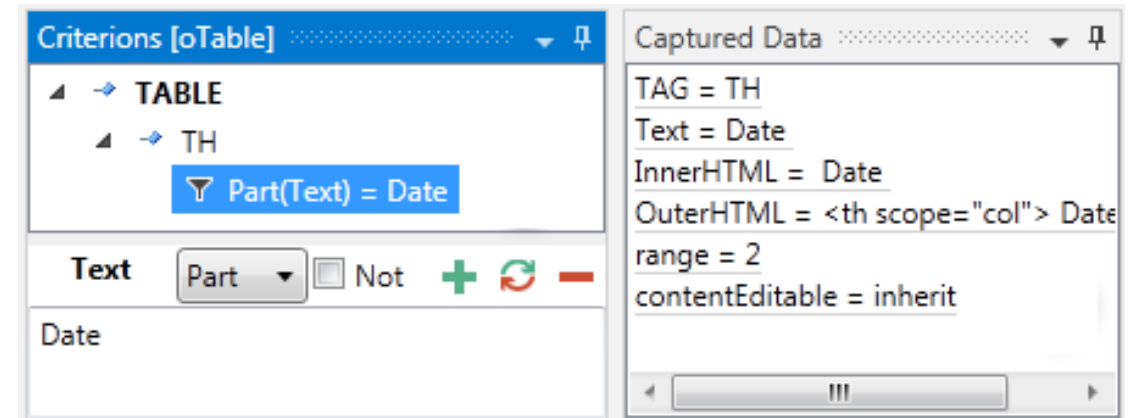
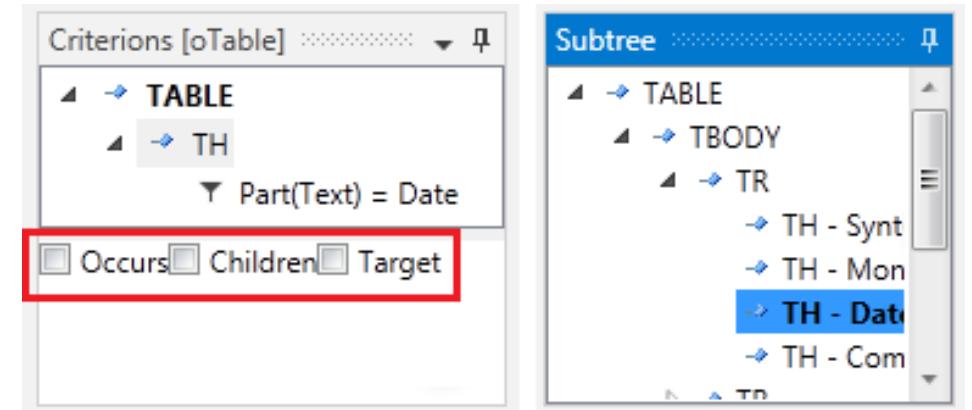
Item Pattern

■ Pattern component properties

- The parent-child relationship
- The Occurs property
- The Target property

■ Pattern component criteria

- Component selection: the associated component is automatically selected in the Captured Data tool window
- Criteria can be managed the same way as in the Single-Component technique
- Available only in **WEB** and **UIAutomation**



Explorer – Advanced Declaration

Advanced declaration techniques

Ancestor

■ Ancestor technique

- The Ancestor technique involves finding, in the targeted component ascendance, an ancestor component having discriminant properties.
 - To declare an item with Ancestor, we have to:
 - Declare an item targeting this ancestor component
 - Set this item as ‘Ancestor’ of the item in Parameters
- Available only in **WEB**, **WIN**, and **UIAutomation**

The screenshot displays the SAP Studio interface with three main panels: Project Explorer, Tree, and Parameters.

- Project Explorer:** Shows the project structure. Under 'pMain', 'btLogon' is selected, and its child 'oMenuWrapper' is highlighted with a red box.
- Tree:** Shows the component hierarchy. The path is HTML > DIV > DIV > oMenuWrapper > DIV > DIV > oMenu [0]. The 'oMenu [0]' component is highlighted with a red box.
- Parameters:** Shows the configuration for the selected component. The '2 - Driver' tab is active, and the '2 - Ancestor' property is set to 'oMenuWrapper', which is highlighted with a red box.

Parameters - 2 - Driver

1 - General	
1 - Name	oMenu
2 - Comment	
3 - Folder	
3 - Index (Specs)	
4 - Technical	<input type="checkbox"/>

2 - Driver

1 - Must exist	<input type="checkbox"/>
1 - Must not exist	<input type="checkbox"/>
2 - Ancestor	oMenuWrapper
3 - Capture	No
4 - Occurs	<input checked="" type="checkbox"/>
5 - Collection	<input type="checkbox"/>
6 - Key type	<input type="checkbox"/>
GetValueMethod (...)	
SetValueMethod (...)	

9 - Technical

Driver	WEB3
OfflinePath	C
Technology	WEB

2 - Ancestor

If not empty, indicates the Item name to use as ancestor.

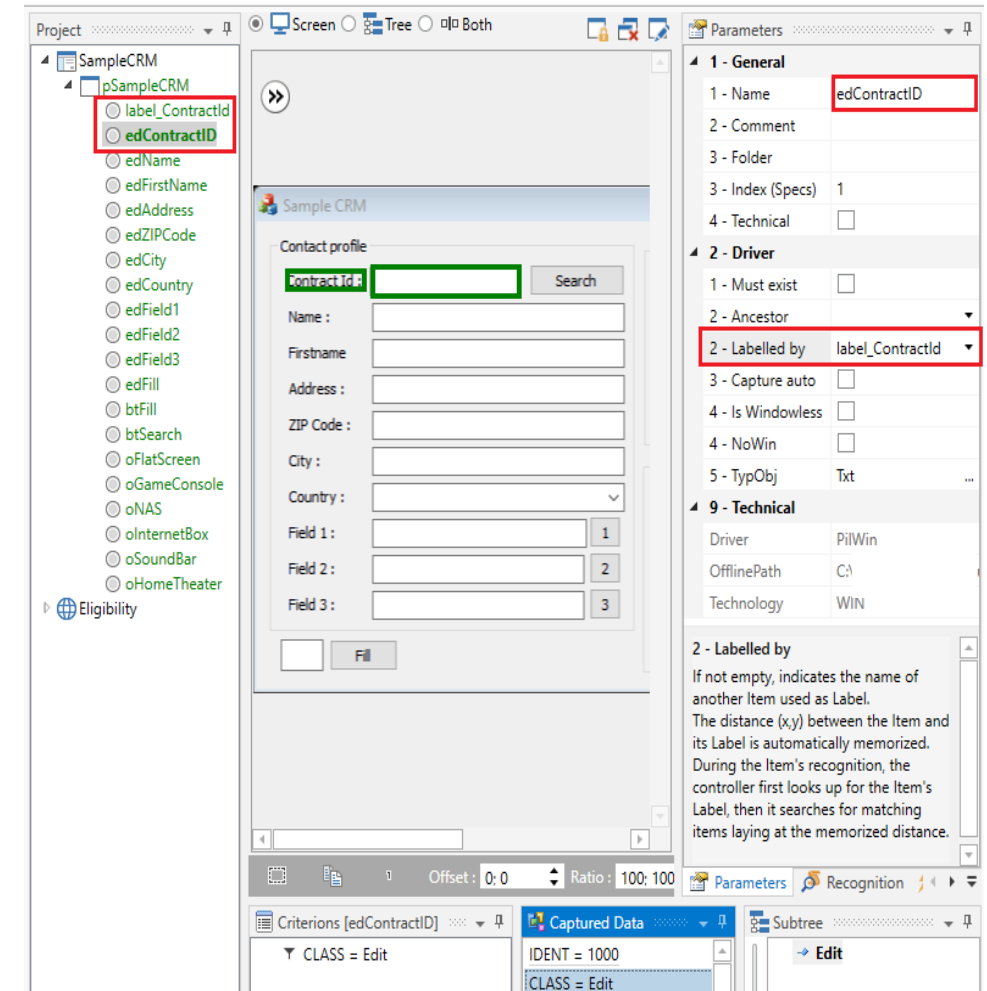
The controller will then limit its search of matching Items to the descendance of the Ancestor's matching Item

Explorer – Advanced Declaration

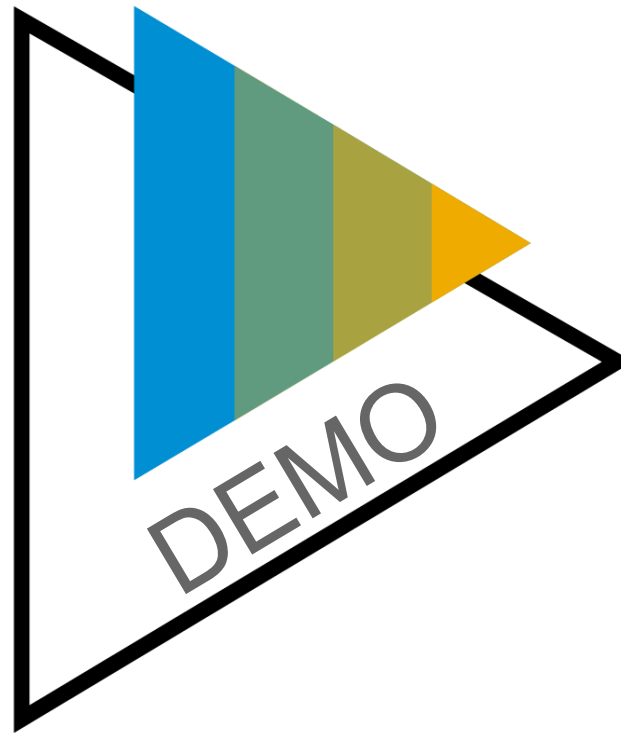
Advanced declaration techniques

Labelled by

- **Labelled by technique**
- The Labelled by technique involves finding another **component**:
 - that is at a fixed distance (CX, CY) from the targeted component
 - that has discriminant properties
- This **component** is typically a 'label' component lying near the target component. But it can be any other component, placed anywhere on the screen.
- Available only in **WIN**, **HLLAPI** and **UIAutomation**



Development Phases: Advanced Declaration



Thank you.

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