

Week 2: Development Phase I

Unit 1: Explorer – Simple Declaration





Project components

Different Project Components

Project components

Studio

Explorer | Workflow Designer | Editor | Debugger | UI Designer

SDK

Project Templates | Framework and Extension | Libraries | Resources

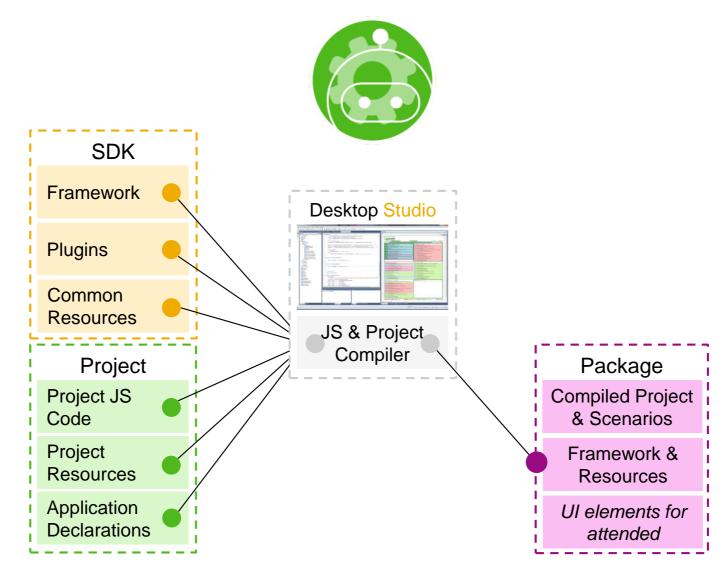
Framework

JavaScript ctx Core Language | Language Extensions | Collaborative Approach

Project

Solution Content | Declaration Files | Workflow Files | UI Resources | JavaScript Files

Project components

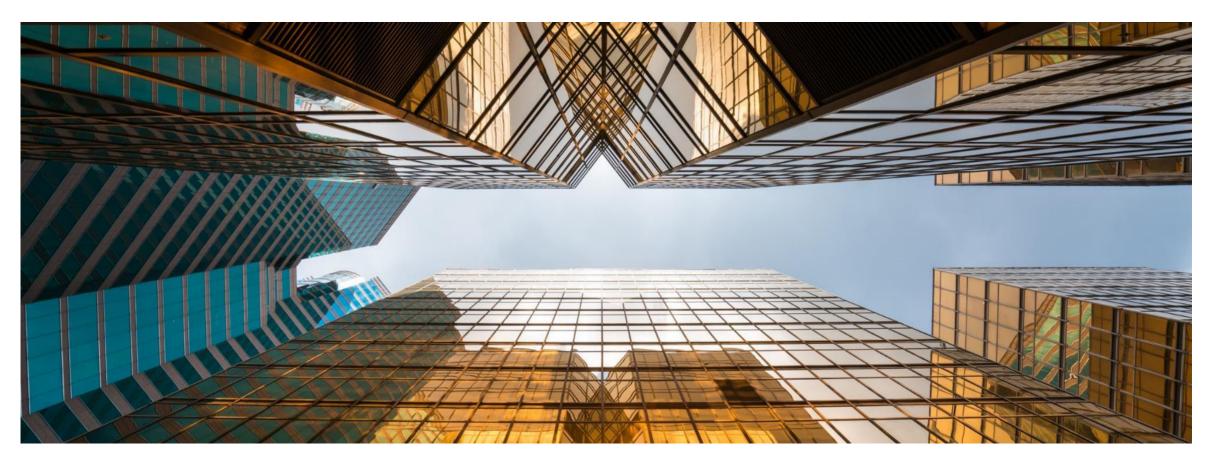


Hello World!

Discover the Studio: Hello World!

Development phases

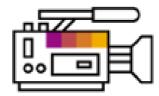
Development Phases



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

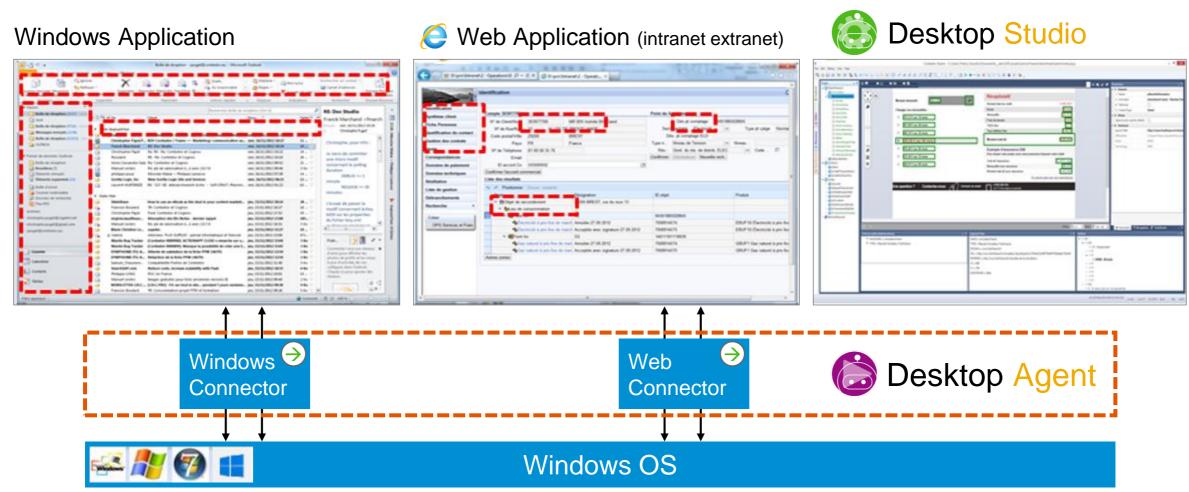


Workflow Design Phase: development of the automation scripts



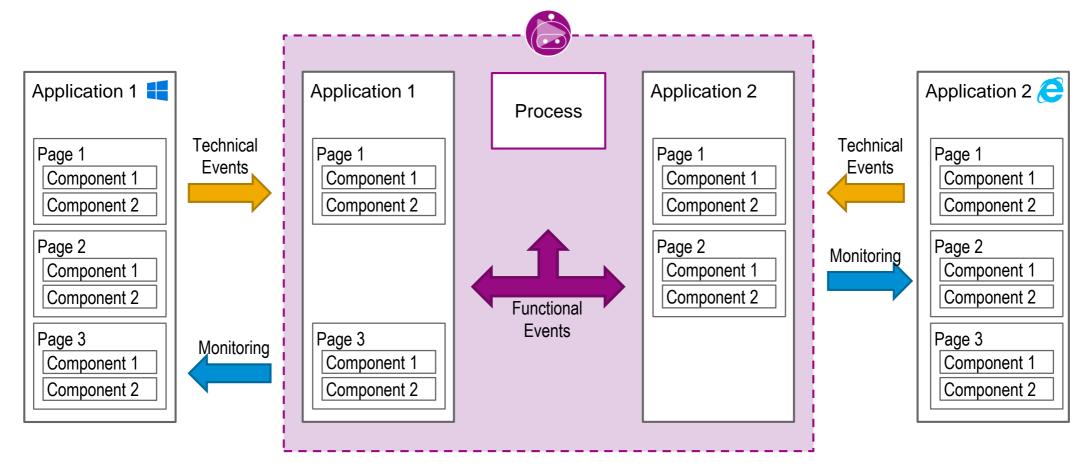
Declaration phase

Application Recognition



Conception and declaration

Entities declaration: Application, Page, Item, and Process



Application capture

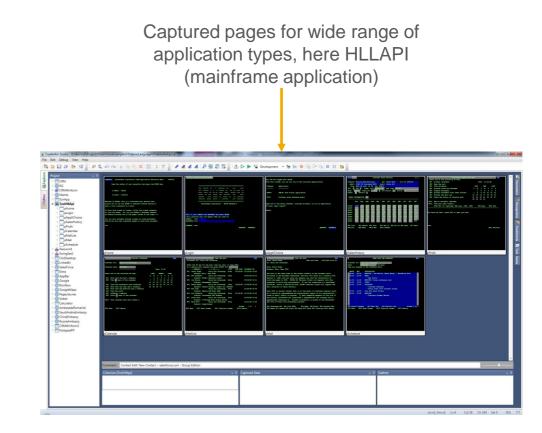
Desktop technologies

Application

- Any EXE application running on the desktop with user interface (UI). Includes the following technologies: Windows, Java, Silverlight, QT, etc.
- The DOM tree of a desktop application consists of the tree of all UI components created by the application.

Page

- A page is a subtree of the DOM tree. The root of this subtree is defined as the root of the page.
- Any component of the DOM tree may be a root of a page.
- Any component of the DOM tree under the root of a page can be considered an item of this page.

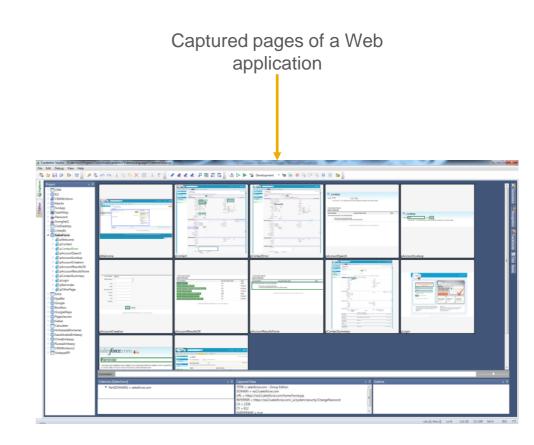


Application capture

Web technology

Application

- Any WEB application is set of Web pages that match the same set of criteria.
- Only a page displayed in an instance of a Web browser (IE, Chrome, Firefox) is a candidate for belonging to a WEB application.
- 2 Web pages belonging to the same WEB application, but displayed on 2 different tabs of the browser, are considered as 2 different application instances.
- If a page of a WEB application is displayed on a tab of the browser, and this page navigates to another page that does not belong to this application, the application is then considered to be ended (END event).

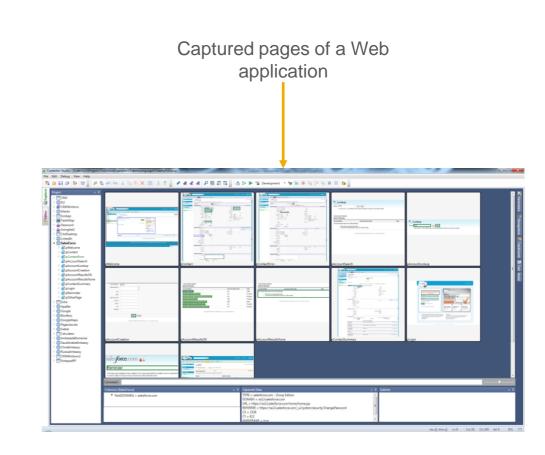


Application capture

Web application

Page

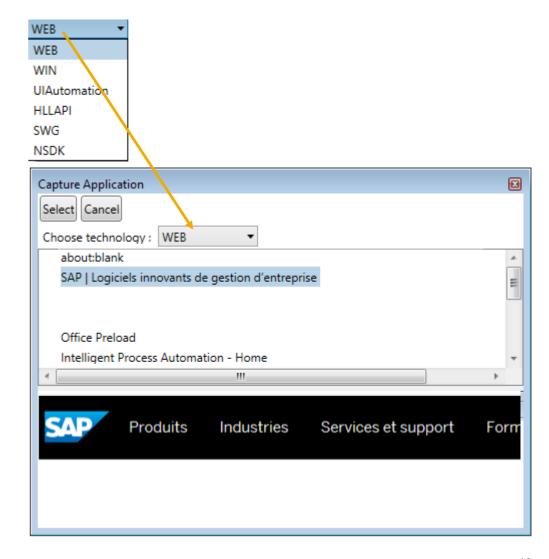
- A Web page is the content of:
 - a tab of a Web browser or
 - the content of an iFrame
- Any declared element from the DOM of a Web page is considered an item of this page.
- The DOM of a Web page does not contain the DOM of its iFrames.



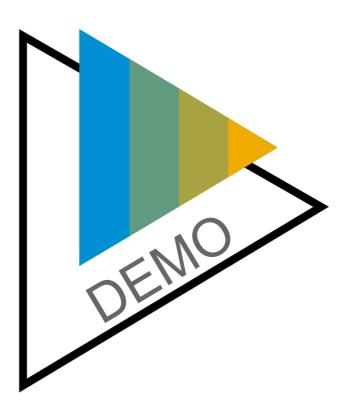
Declaration principles

Technology choice

- WEB: Web application running in a Web browser (Internet Explorer, Chrome, Firefox)
- WIN: Windows Desktop application (Win32 or WinForms)
- UlAutomation: Other desktop applications (WPF, Silverlight, QT, etc.) can also be used for WIN applications (Win32 or WinForms)
- HLLAPI: Desktop mainframe application running in an HLLAPI-compatible emulator (Attachmate, etc.)
- SWG: Desktop Java application (AWT, Swing, custom classes, etc.)
- NSDK: Proprietary desktop applications generated by NSDK tool (mainly in French market)



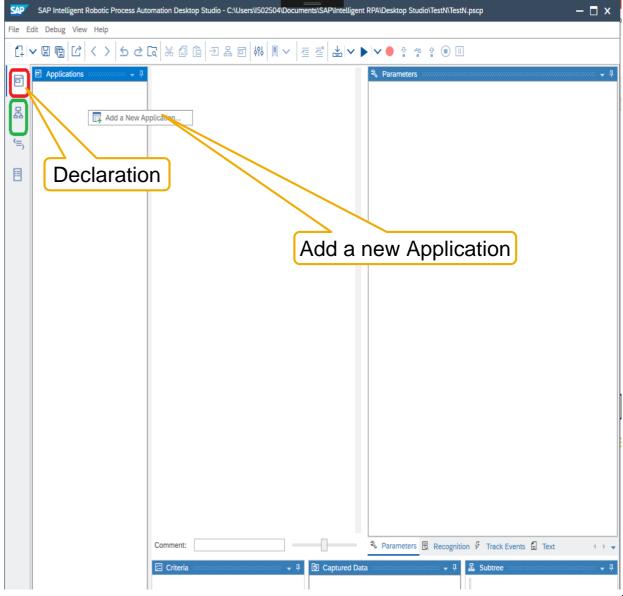
Simple Declaration



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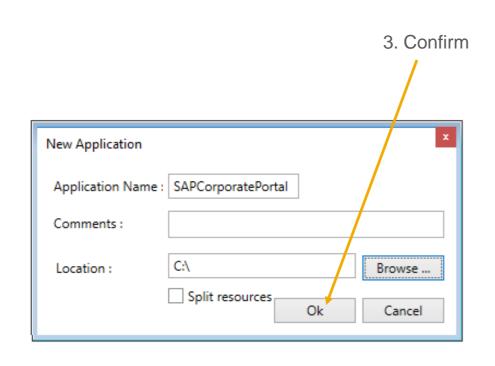
Declaration of all the applications that Desktop Agent has to interact with/monitor through user interface (UI)

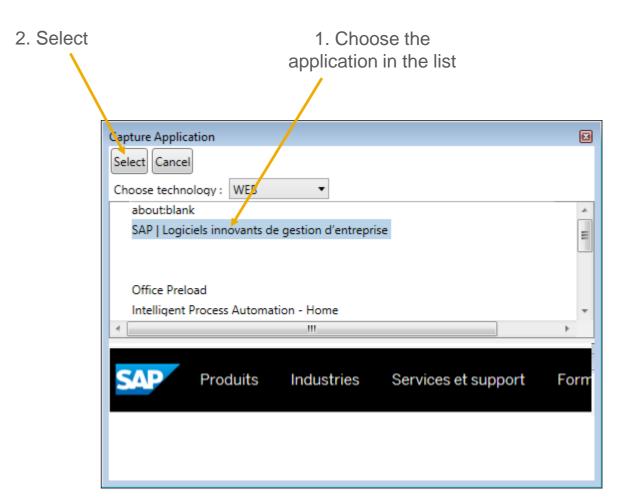




Application declaration

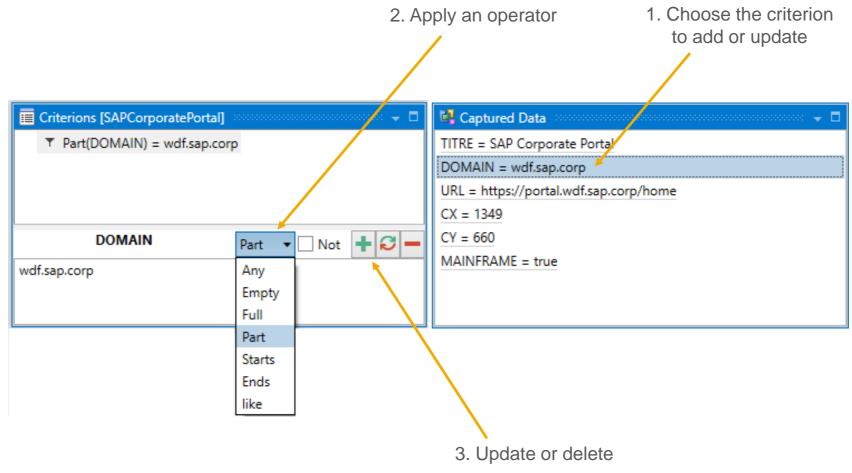
Capture the Application

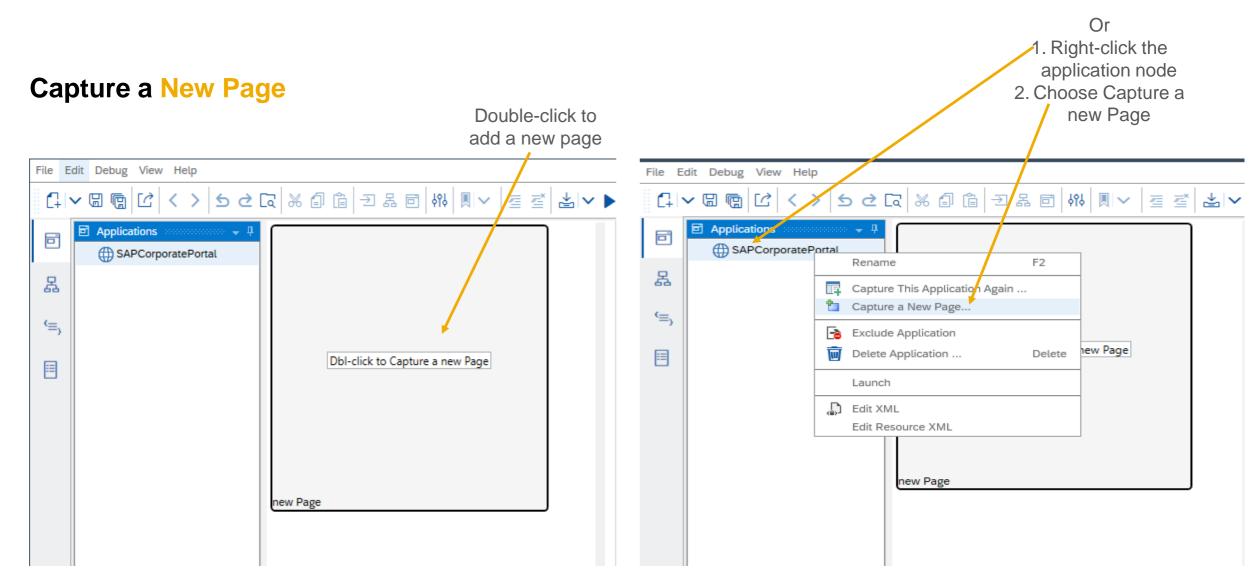




Application declaration

Set Recognition Criteria



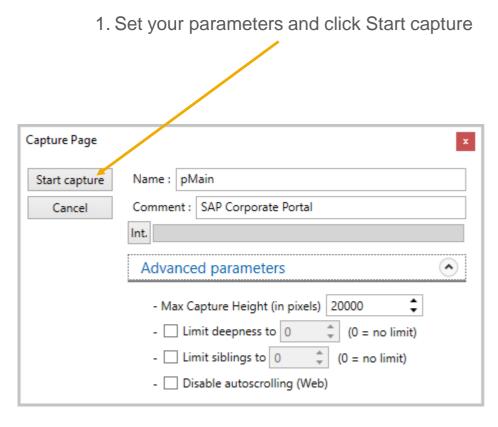


1. Point to your page with your mouse and press Ctrl Or browse the DOM of application **Browse the DOM of the Page** Capture Page Capture and Edit Capture and Continue Cancel X ✓ Pick Page (CTRL+Hover) ✓ Choose Technology WEB Browse... → https://portal.wdf.sa... →

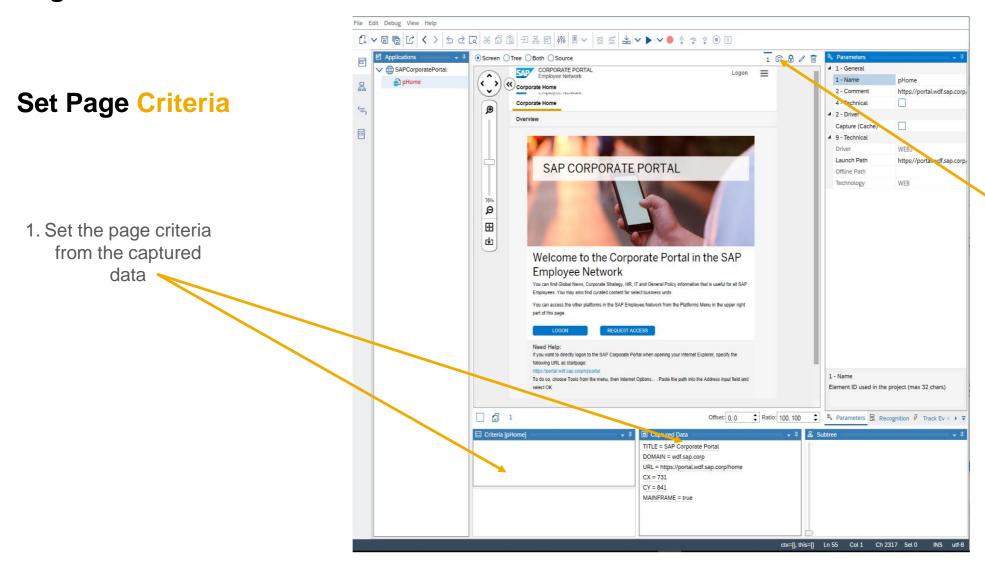
→

C 0+ → https://portal.wdf.sap.corp/home ✓ Recognize Multi-Capture SAP Corporate Portal ✓ Show Invisible ✓ Show All CORPORATE PORTAL SAP Logon Capture on Hover Employee Network Use SHIFT Corporate Home Capture Mode Overview Print Window OCapture Screen SAP CORPORATE PORTAL 2. Select the frame or 3. Click Capture and edit subtree, if any

Start Capturing the Page

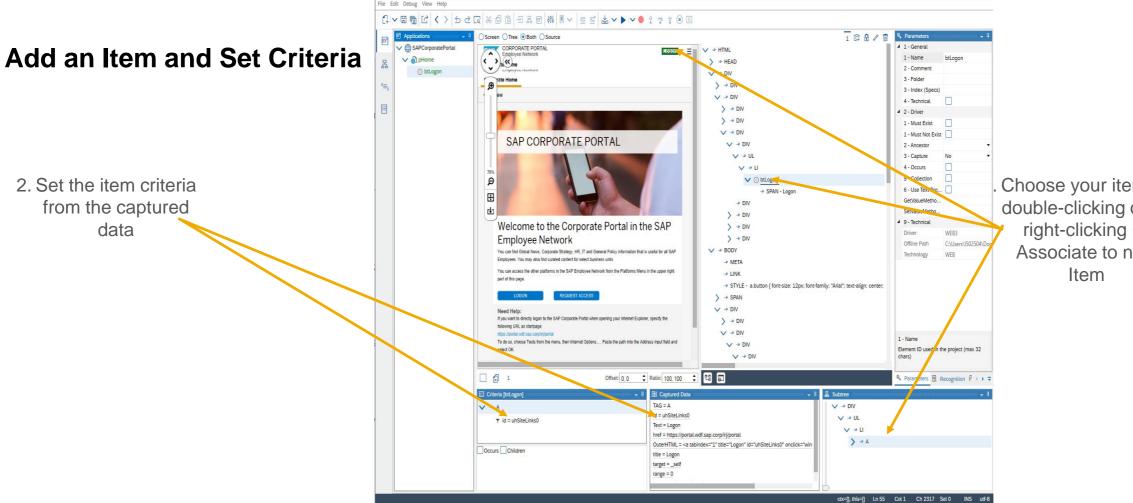


2. Wait for the end of the capture Capture Page Name : pMain Start capture Comment : SAP Corporate Portal Cancel 190/245 Int. Advanced parameters - Max Capture Height (in pixels) 20000 - Limit deepness to 0 (0 = no limit)- Limit siblings to 0 (0 = no limit)- Disable autoscrolling (Web)



2. If needed, you can add more captures of the same page

Item declaration



Choose your item by double-clicking or by right-clicking → Associate to new

Thank you.

Contact information:

open@sap.com





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