



FEU INSTITUTE OF TECHNOLOGY  
COLLEGE OF ENGINEERING • COLLEGE OF COMPUTER STUDIES

# ITSE333A

# ABAP

## Lesson 10: Subscreens, tabs and HTML viewer

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# Agenda

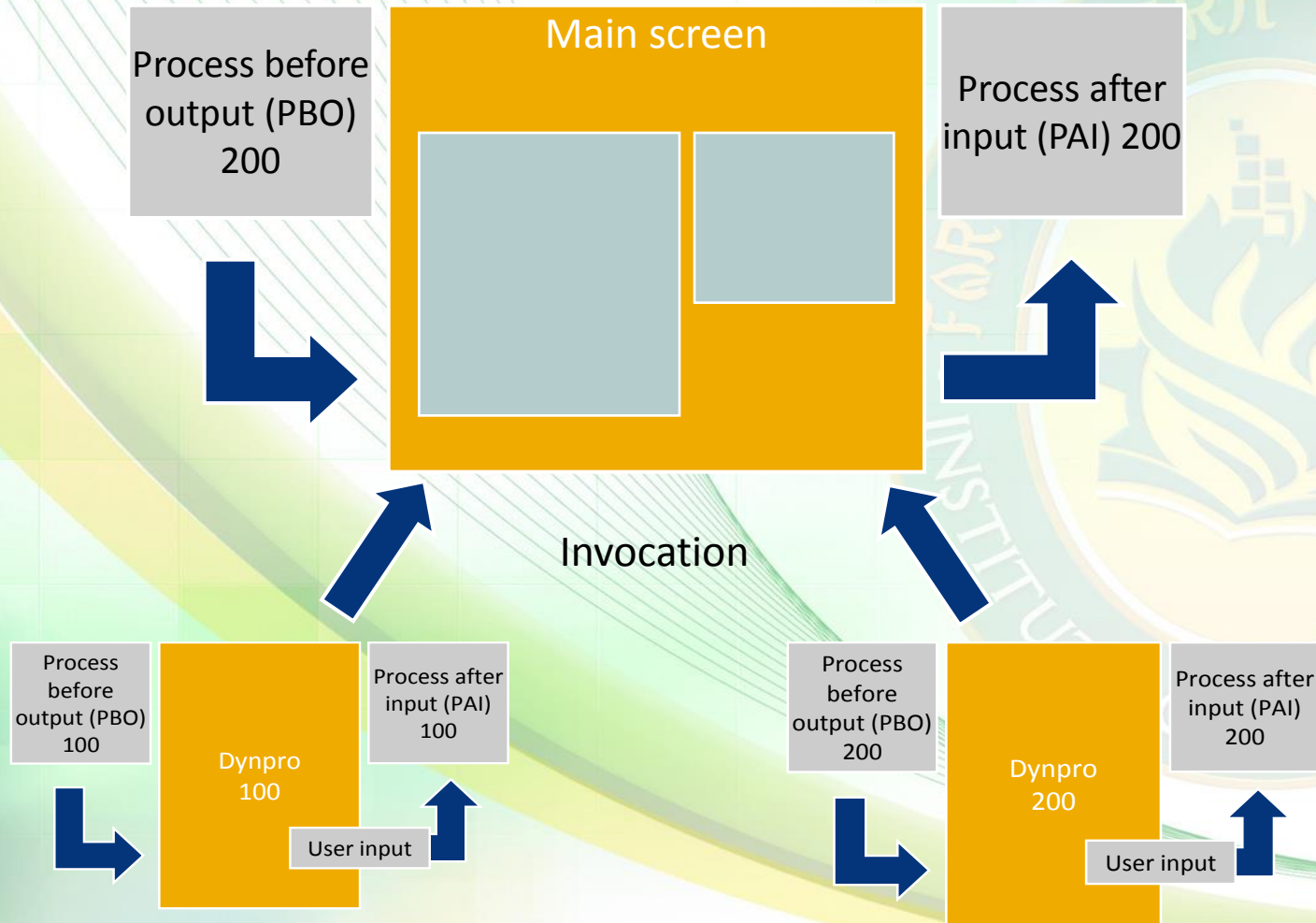
1. Subscreens
2. TabStrips
3. HTML viewer control







# Usage of subscreens





# Specialties of subscreens

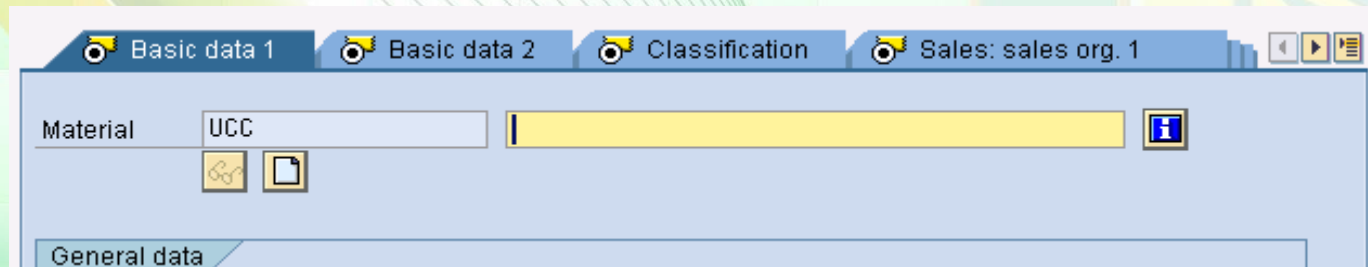
- Subscreens do not have own ok\_codes
- Ok\_code is parsed by the main screen
- No changes to Gui status during subscreen flow logic
- Following instructions are not allowed in subscreens:
  - SET TITLEBAR, SET PF-STATUS, SET SCREEN, LEAVE SCREEN, LEAVE TO SCREEN





# TabStrips

- Tabs may be used to structure content
- Tabs are very common in SAP system
- Every tab may contain other data/document



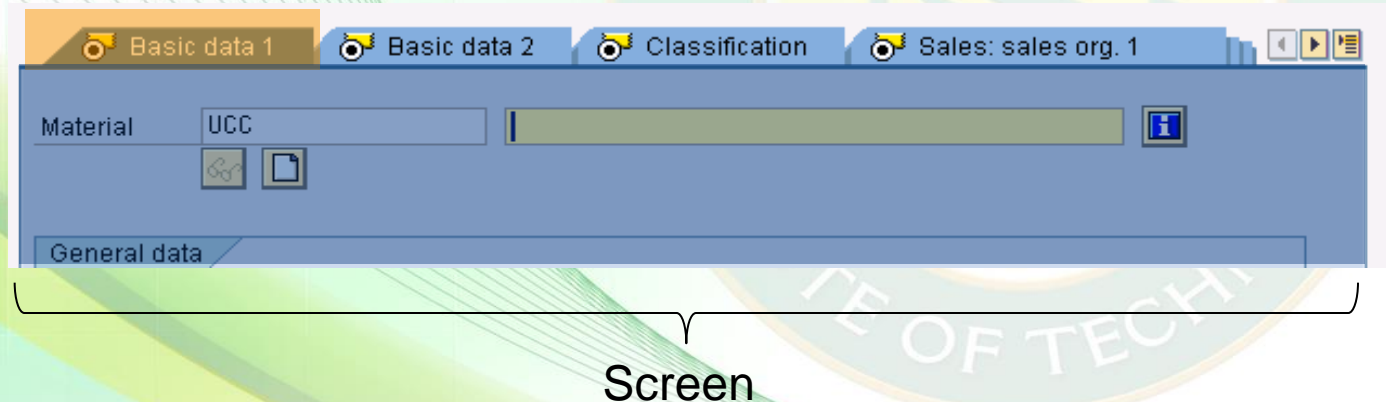


# TabStrips

- TabStrip contains several tabs
- Each tab has its own subscreen to show data
- Each tab is assigned to own subscreen

TabStrip text

TabStrip Subscreen





# TabStrips

Two variants of implementation

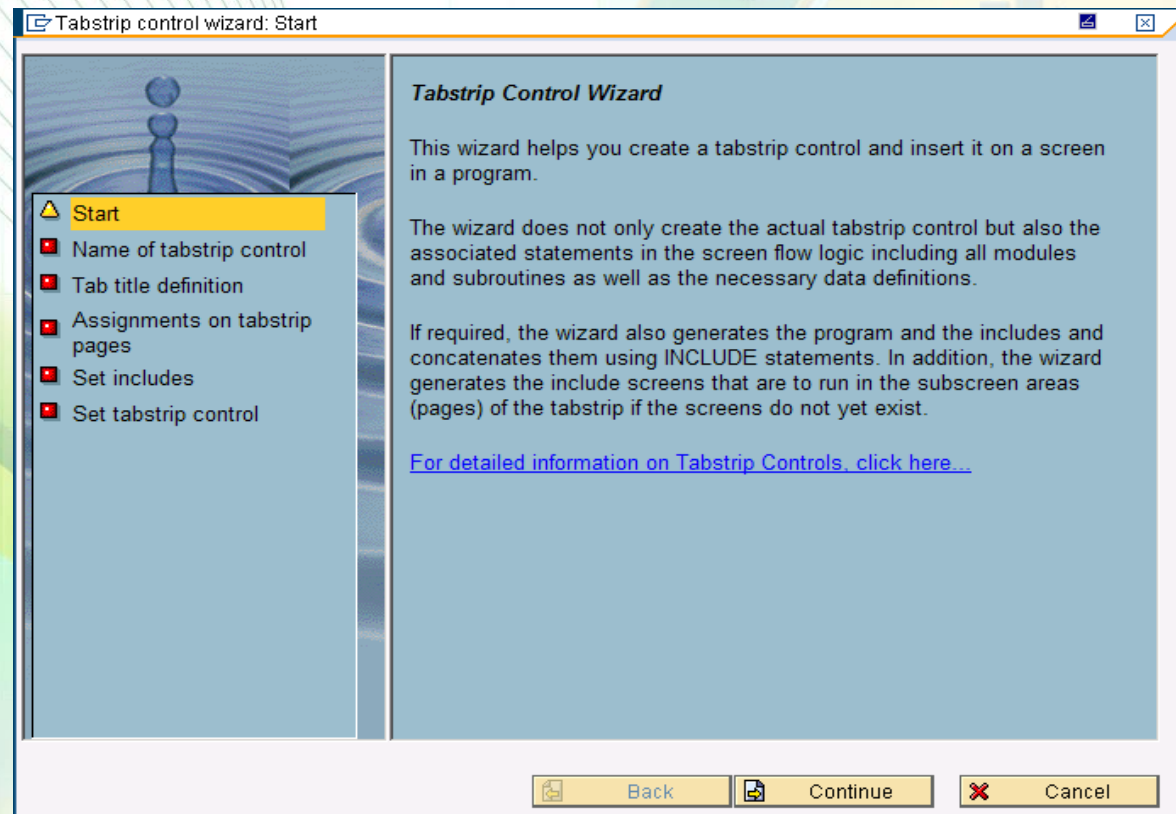
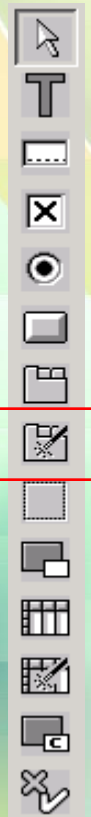
Buffering in SAPGui	Buffering in application server
<ul style="list-style-type: none"><li>• PBO modules are executed for all tabs and results are sent to SAPGui</li><li>• Switching between tabs can be done in SAPGui</li><li>• PAI modules of all tabs are executed in case of a raised event</li></ul>	<ul style="list-style-type: none"><li>• PBO module is only executed for one tab</li><li>• Switching between tabs is slow because each switch has to be done on application server</li><li>• Only PAI module of active tab is executed</li></ul>
+ Performance	- Performance
- Validation and execution of all tabs at the same time → costs performance on the application server	+ Validation and execution of one tab only





# TabStrips

- Creation of a TabStrip using TabStrip Wizard
- Start from the Graphical Screen Painter







# TabStrips

- Creation of a TabStrip using TabStrip Wizard

Tabstrip control wizard: Name of tabstrip control

The tabstrip control is assigned to a program and to a screen of this program.

You therefore enter a program name and, if required, a screen number in this program. If the program and the screen do not yet exist, they are created when the tabstrip control is finished.

Each tabstrip control also needs a name which must be unique within the program.

Name of main program: ZY\_99\_DYNPRO

Screen number: 200

Tabstrip name: TabStrip\_Flight

☒ Scrolling in the Application Server

☐ Scrolling in SAPGUI

Back Continue Cancel

Name of the TabStrip

Implementation mode



# TabStrips

- Creation of a TabStrip using TabStrip Wizard

TabStrip control wizard: Definition of tab titles

Here you can define the tab titles of the tabstrip control.

For each tab title, enter the text with which it should be displayed on the tabstrip control.

Each title defines a page of the tabstrip control.

You must at least define two tab titles.

Tab text

- Connection details in SAP
- Connection details in web
- Realtime tracking

Back Continue Cancel

- Tab titles are defined here





# TabStrips

- Creation of a TabStrip using TabStrip Wizard

Tabstrip control wizard: Tabstrip page assignments

In this step, you define assignments on the pages of the tabstrip control.

To each title, you must assign a screen of the program which is to run in the subscreen area when the tab title is chosen (clicked). You must also assign a function code to each tab title which is sent to the application server, that is, to the program, when the tab title is chosen.

You can accept the default values. If you enter your own values you

Tab text	Subscreen	Function code
Connection details in	501	TABSTRIP_FLIGHT_FCTab1
Connection details in	502	TABSTRIP_FLIGHT_FCTab2
Realtime tracking	503	TABSTRIP_FLIGHT_FCTab3

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- Number of subscreen has to be assigned
- Function code must be defined
- Function code is used to determine which tab was clicked by the user



# TabStrips

- Creation of a TabStrip using TabStrip Wizard

Tabstrip control wizard: Set includes

Here you must enter the names of program includes in which the data definitions and the input/output modules are to be created:

- Include for the data definition
- Include for the PBO module
- Include for the PAI module

Include for data	ZY_99_DYNPRO
Include for PBO Modules	ZY_99_DYNPRO
Include for PAI Modules	ZY_99_DYNPRO

Back Continue Cancel

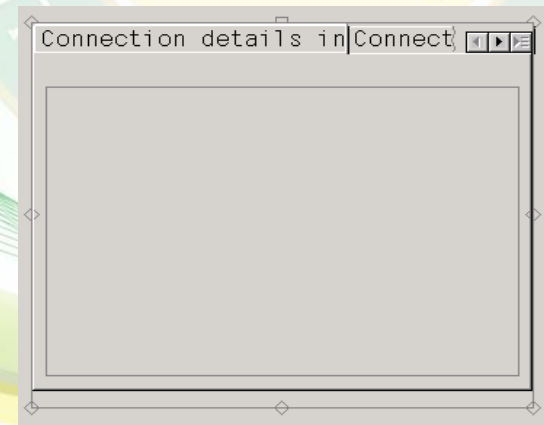
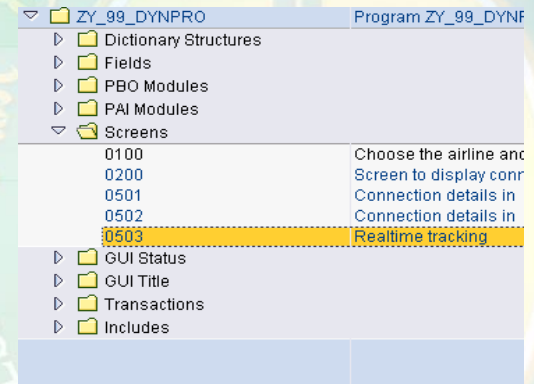
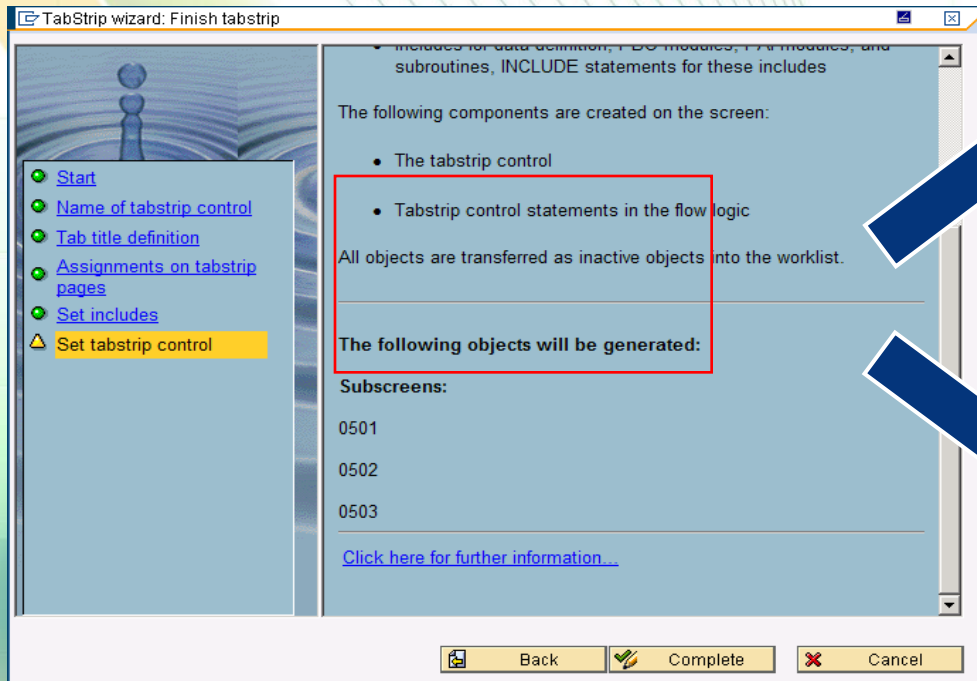
- Name of the include of the main program





# TabStrips

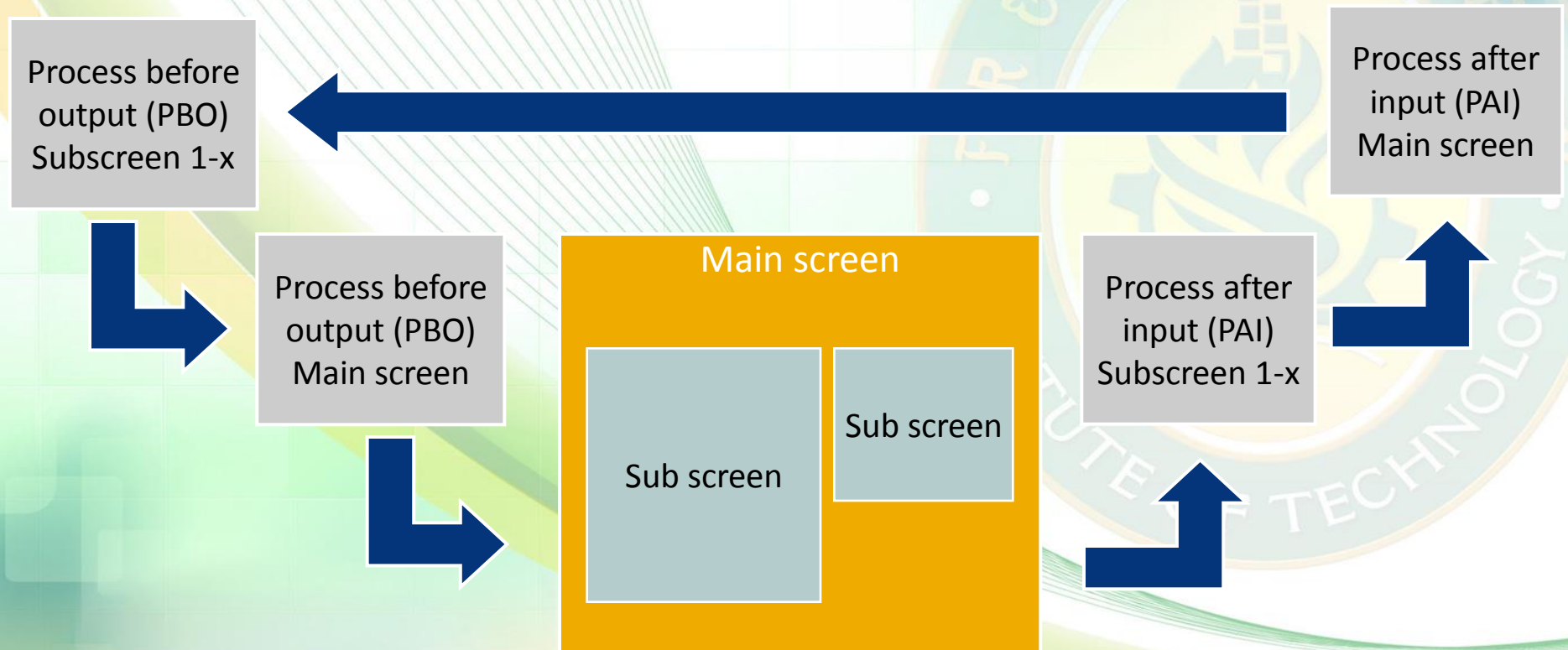
- Creation of a TabStrip using TabStrip Wizard





# TabStrips

- Flow logic of program when using subscreen's

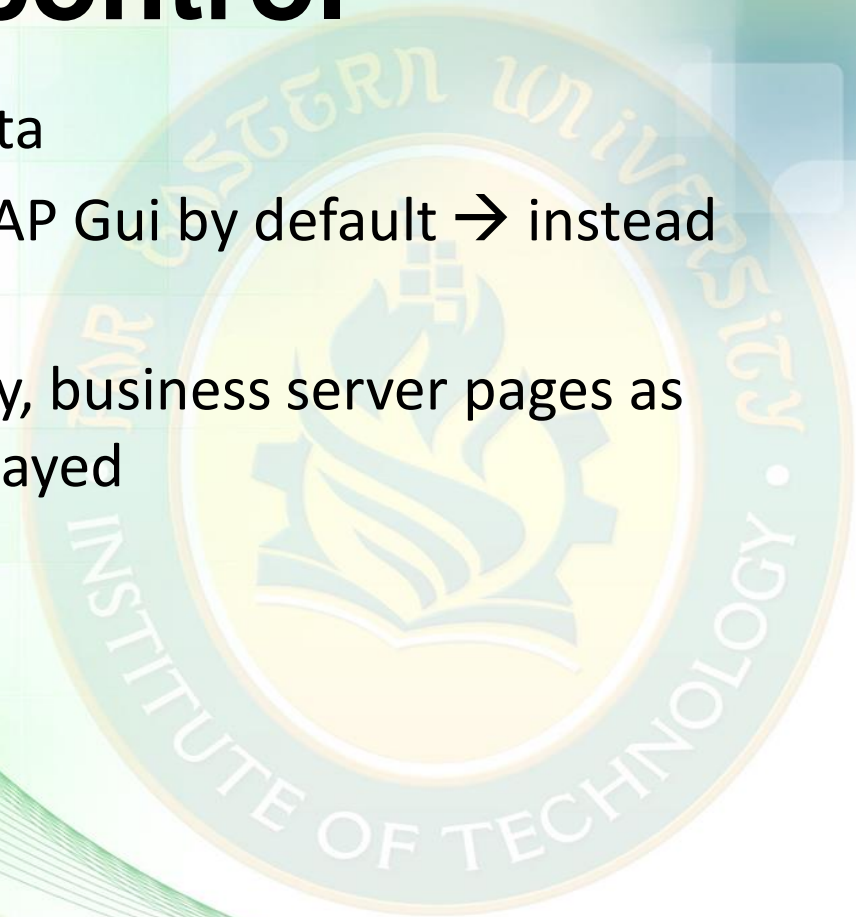






# HTML view control

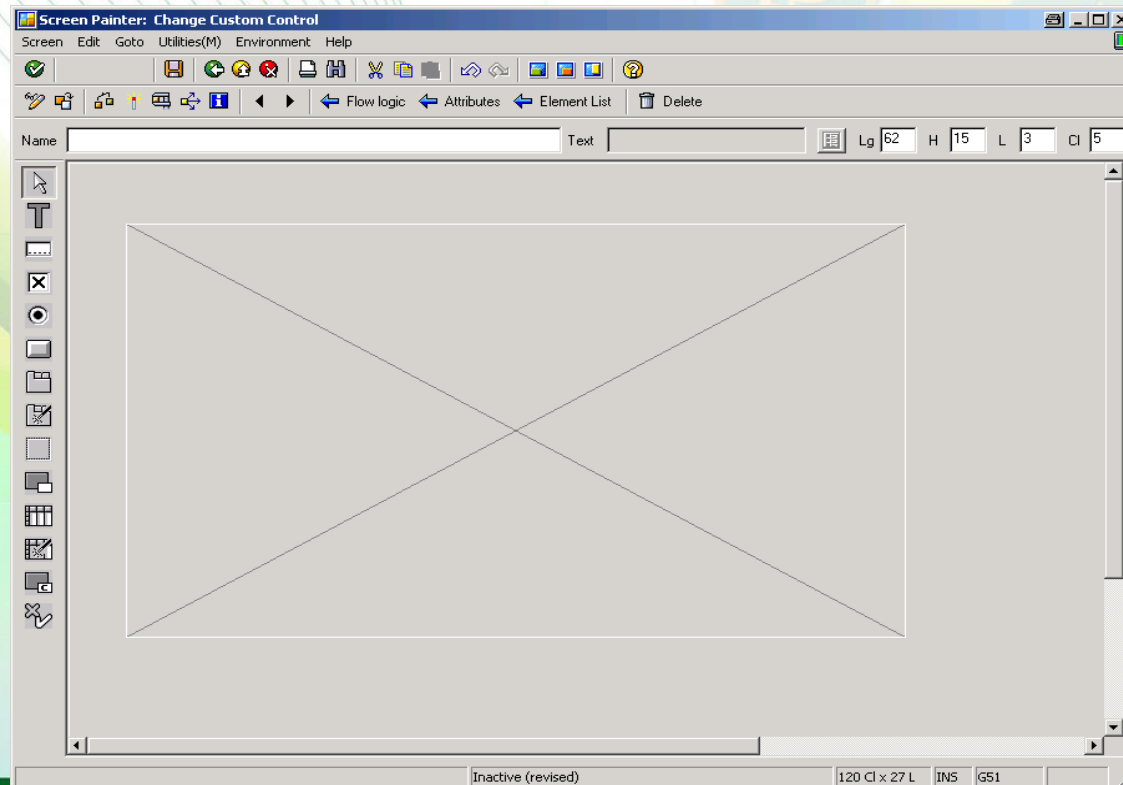
- Enables SAP Gui to display HTML data
- HTML data cannot be displayed in SAP Gui by default → instead the standard web browser is used
- Documents from SAP web repository, business server pages as well as any kind of URL may be displayed





# HTML view control

- Creation of HTML viewer control
- Start from Graphical Screen Painter using customer control

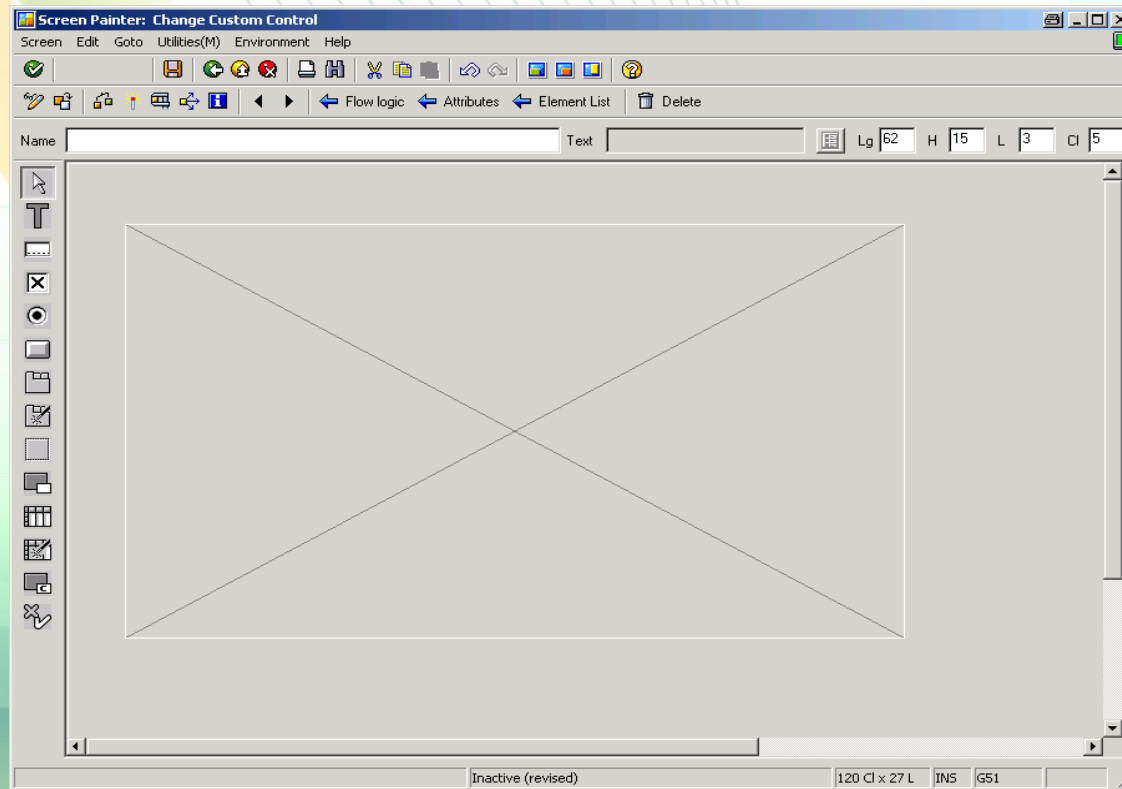






# HTML view control

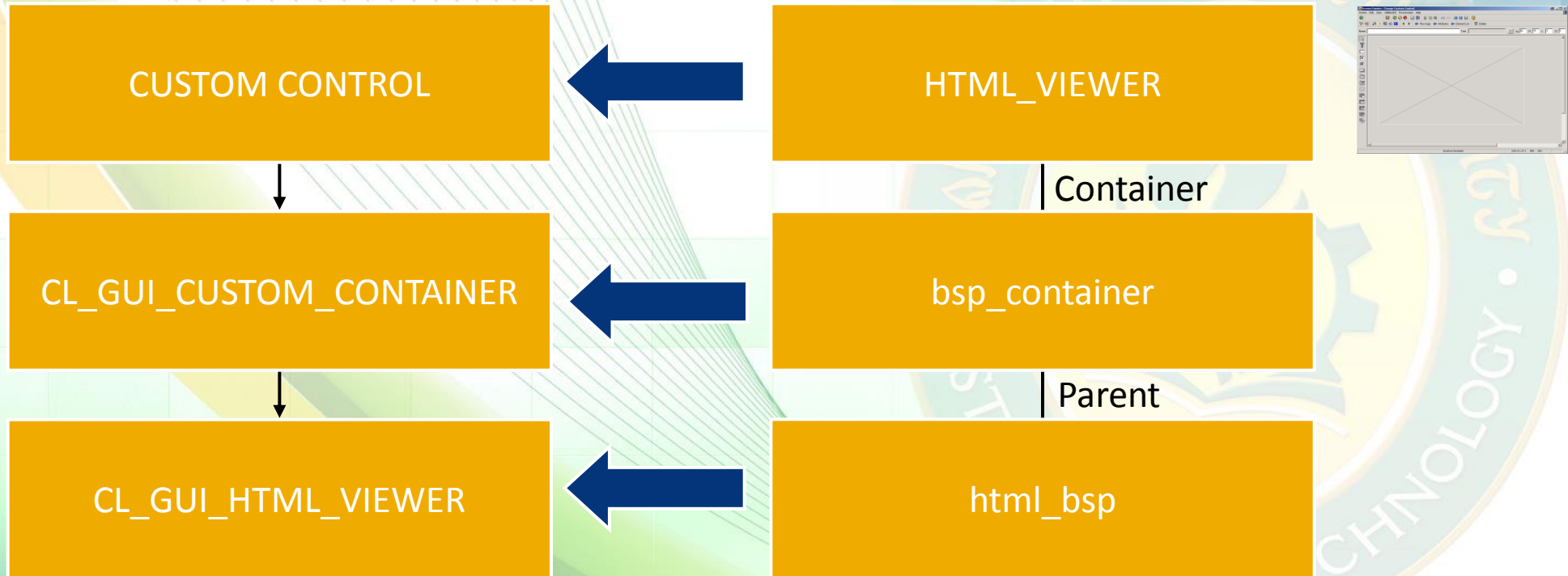
- Creation of HTML viewer control



- Change the size of the custom control
- Assign a name to the custom control, e.g. 'HTML\_VIEWER'



# HTML view control







# HTML view control

- Declare references in TOP INCLUDE:
  - `Data: html_bsp TYPE REF TO cl_gui_html_viewer,`  
`bsp_container TYPE REF TO cl_gui_custom_container.`
- Instantiation in PBO:
  - IF `bsp_container` IS INITIAL.  
`CREATE OBJECT bsp_container`  
`EXPORTING`  
`container_name = 'HTML_VIEWER'.`  
`CREATE OBJECT hmtl_bsp`  
`EXPORTING`  
`parent = bsp_container.`  
`ENDIF.`



# HTML view control

- Access to HTML view control via methods:
  - `show_url`: Loads website from URL into HTML view control
  - `load_html_document`: Loads document from repository
  - `go_home`: Shows the homepage of standard web browser
  - `do_refresh`: Refreshes loaded web site





# BSP & HTML view control

- When using BSP's in HTML viewer control you need the URL of the BSP including a session id
- SAP provides you with a method:
  - CALL METHOD  
cl\_http\_ext\_webapp=>create\_url\_for\_bsp\_application  
EXPORTING  
bsp\_application = "ZY\_99\_BSP"  
bsp\_start\_page = "auswahl.htm"  
bsp\_start\_parameters = pars  
IMPORTING  
abs\_url = urlbsp.