

Lesson 4 The User Interface Architecture

After reviewing the out-of-the-box (OOTB) UI layout of your insurance company customer, they communicate that they want to implement a few minor changes on the Summary screen's Basic tab.

The screenshot shows the TrainingApp interface. The top navigation bar includes the logo 'TrainingApp' and links for 'Search | ▾' and 'Contact | ▾'. The left sidebar contains tabs for 'Actions', 'Summary' (which is selected and highlighted in green), 'Details', 'Addresses (3)', 'Notes (5)', 'Social Media', 'Analysis', 'Interactions', and 'History'. The main content area displays a summary for a contact named 'Person: William Andy'. The 'Basic Information' section shows 'Name' as 'William Andy' and 'Public ID' as 'ab:5'. Below this, under 'Primary Address', 'Country' is set to 'United States' and 'Address 1' is '345 Fir Lane'. Other fields like 'Assigned User' (set to 'Alice Applegate') and 'Email Address' ('willandy@albertsons.com') are also visible.

In this lab, you will first explore the tools available for investigating the architecture of the user interface. Then, you will use the PCF Editor in Guidewire Studio to modify the order of widgets in a PCF file. Finally, you will deploy and verify your changes.

4.1 Prerequisites

For this exercise, use TrainingApp, Guidewire Studio, and a supported web browser.
`http://localhost:8880/ab/ContactManager.do` is the default URL for TrainingApp. To view, edit, and delete various contacts, log in to TrainingApp as Alice Applegate. The login/password for Alice Applegate is `aapplegate/gw`.

4.1.1 Investigation: Explore the page structure

As a configuration developer, you need to understand how to explore the PCF structure, so you can easily find and navigate to the widgets you need to modify.

In this exercise, you will explore the page structure of the summary page using the internal tools and the PCF Editor.

- 1. Open Guidewire Studio**
 - a) From the TrainingApp folder, open a command window and start Guidewire Studio for TrainingApp.
 - b) Alternatively, use the Start TrainingApp Studio shortcut.
- 2. Run the TrainingApp project**
 - a) Use the main menu, toolbar, or keystroke to run the server.
 - b) Verify that the Run Console tab shows ***** ContactManager ready *****.
- 3. Log in to TrainingApp**
 - a) Log in as Alice Applegate.
- 4. View the William Andy Summary**
 - a) Search for William Andy.
 - b) In the search results list view, navigate to the William Andy contact.

4.2 Lab: Write it down

Action: Use ALT + SHIFT + I to open the Location Info window.

- 1. Question:** Review the file structure in the dialog. What is the parent PCF of the FlagEntriesLV.pcf?

- 2. Action:** Use ALT + SHIFT + W to open the Widget Inspector window.

Question: Review the Page Include Structure. What is the value of anABContact variable?

- 3. Question:** Review the Page Widget Structure. Compare the id and renderId values of the Screen widget. How does the renderId value differ from the id value?

Action: Use ALT + SHIFT + E to open the page in Guidewire Studio.

- 4. Question:** Review the ABContactSummaryPage.pcf structure in the Structure tab. What is the parent widget of the Toolbar widget?

5. Action: Navigate to the ABContactSummaryDV.pcf – Double click on the blue area

Question: Review the ABContactSummaryDV.pcf in the canvas. How are you able to distinguish included sections from the widgets specified in the file itself?



Keyboard shortcut

Open Location Information

If you are running an application project with internal tools enabled, you can view the location information with **ALT + SHIFT + I** in a separate browser window. The window details the file structure and details the hierarchy of the location, screen, and any child container widgets. For each location and container widget, the name of the file in which it is referenced is listed. Location Info is also useful when Studio is not running.



Keyboard shortcut

Open Widget Inspector

If you are running an application project with internal tools enabled, you can view the widget information with **ALT + SHIFT + W** in a separate browser window. The Widget Inspector shows all the PCF files and widgets referenced in the active application browser window except for the workspace area. The Widget Inspector also shows the available variables and their current values.



Keyboard shortcut

Open a PCF file in Studio from the Browser

If you are running an open application project in Guidewire Studio and if internal tools are enabled, you can automatically open the location being viewed in the application. Use the **ALT + SHIFT + E** keystroke in the browser.

4.3 Lab: Modify the Basics card on the Summary page

As a configuration developer, you want to be able to open and modify existing PCF files.

In this exercise, you will modify the ABContactSummaryDV.pcf file that you have already open in the PCF Editor in Guidewire Studio.

4.3.1 Configuration

1. Modify the order of the widgets in Basic Information

- Move the Created On widget below the Assigned User widget.
- From the Toolbox, add an input divider between Assigned User and Public ID.

4.3.2 Verification



Activity

Verify the work you have done

1. Reload the PCF changes

- In TrainingApp, reload the changes to the PCF file(s).
- Verify the changed order of the widgets and the addition of the input divider.



Keyboard shortcut

Reload PCF changes without restarting the Server

If you are running an open application project in Guidewire Studio and if internal tools are enabled, you can reload all the page configuration files and display keys for the server.

Important: If you reload PCF files while in edit mode, you may experience unpredictable results. For the current location, where there is a data modification in progress, the new PCFs may not be reloaded. Therefore, Guidewire recommends reloading PCF files while in read-only mode as it provides for more predictable results.

Use the `ALT + SHIFT + L` keystroke in the browser.



Stop



Solution

Exact details on how to complete the exercise

1. Action: Use `ALT + SHIFT + I` to open the Location Info window.

Location Info for ABContactSummaryPage/Basics

Smoke Test Step: ABContactSummaryPage/Basics

Current User: Alice Applegate (aapplegate)

Application: ABContactSummaryPage/Basics

Schema Version:

---- File Structure ----

Page "ABContactSummaryPage" ([ABContactSummaryPage.pcf:9](#))

Screen "ABContactSummaryScreen" (ABContactSummaryPage.pcf)

CardView "ABContactSummaryCV" ([ABContactSummaryCV.pcf:6](#))

DetailView "ABContactSummaryDV" ([ABContactSummaryDV.pcf:7](#))

InputSet "AddressOwnerInputSet" ([AddressOwnerInputSet.pcf:6](#))

InputSet "GlobalAddressInputSet" ([GlobalAddressInputSet.default.pcf:7](#))

ListView "FlagEntriesLV" ([FlagEntriesLV.pcf:6](#))

2. Question: Review the file structure in the dialog. What is the parent PCF of the FlagEntriesLV.pcf?

ABContactSummaryDV – you can see that based on the indent

3. Action: Use ALT + SHIFT + W to open the Widget Inspector window.

Page Include Structure (Location Stack):

- [ABContactLG.pcf](#)

- var anABContact : ABContact = "William Andy"

- [ABContactInfoBar.pcf](#)

- [ABContactLGMMenuActions.pcf](#)

- [NewContactPickerMenuItemSet.pcf](#)

- [ABContactSummaryPage.pcf](#)

- var anABContact : ABContact = "William Andy"

- [ABContactSummaryCV.pcf](#)

- [ABContactSummaryDV.pcf](#)

- [AddressOwnerInputSet.pcf](#)

- [FlagEntriesLV.pcf](#)

4. Question: Review the Page Include Structure. What is the value of anABContact variable?

"William Andy"

5. Question: Review the Page Widget Structure. Compare the id and renderId values of the Screen widget. How does the renderId value differ from the id value?

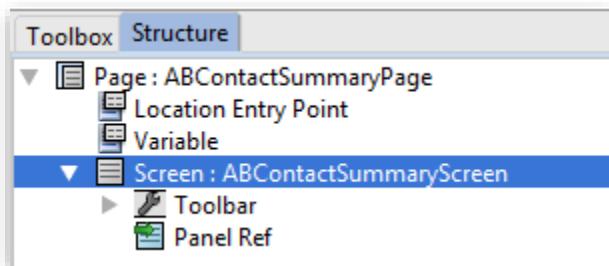
- Collapse	Widget	ID	Render ID	File	Label
Page		ABContactSummaryPage		ABContactSummaryPage.pcf :9	
Screen		ABContactSummaryScreen	ABContactSummaryPage-ABContactSummaryScreen	ABContactSummaryPage.pcf:16	
TitleBar		ttlBar	ABContactSummaryPage-ABContactSummaryScreen-ttlBar	ABContactSummaryPage.pcf:16	
Messages		_msgs	ABContactSummaryPage-ABContactSummaryScreen-_msgs	ABContactSummaryPage.pcf:16	

renderId includes the id of the page in which to render the screen, whereas id simply gives the id of the screen

Generally speaking the id simply gives the id of the widget, whereas renderId includes the id of the widget and the concatenation of all the parent ids.

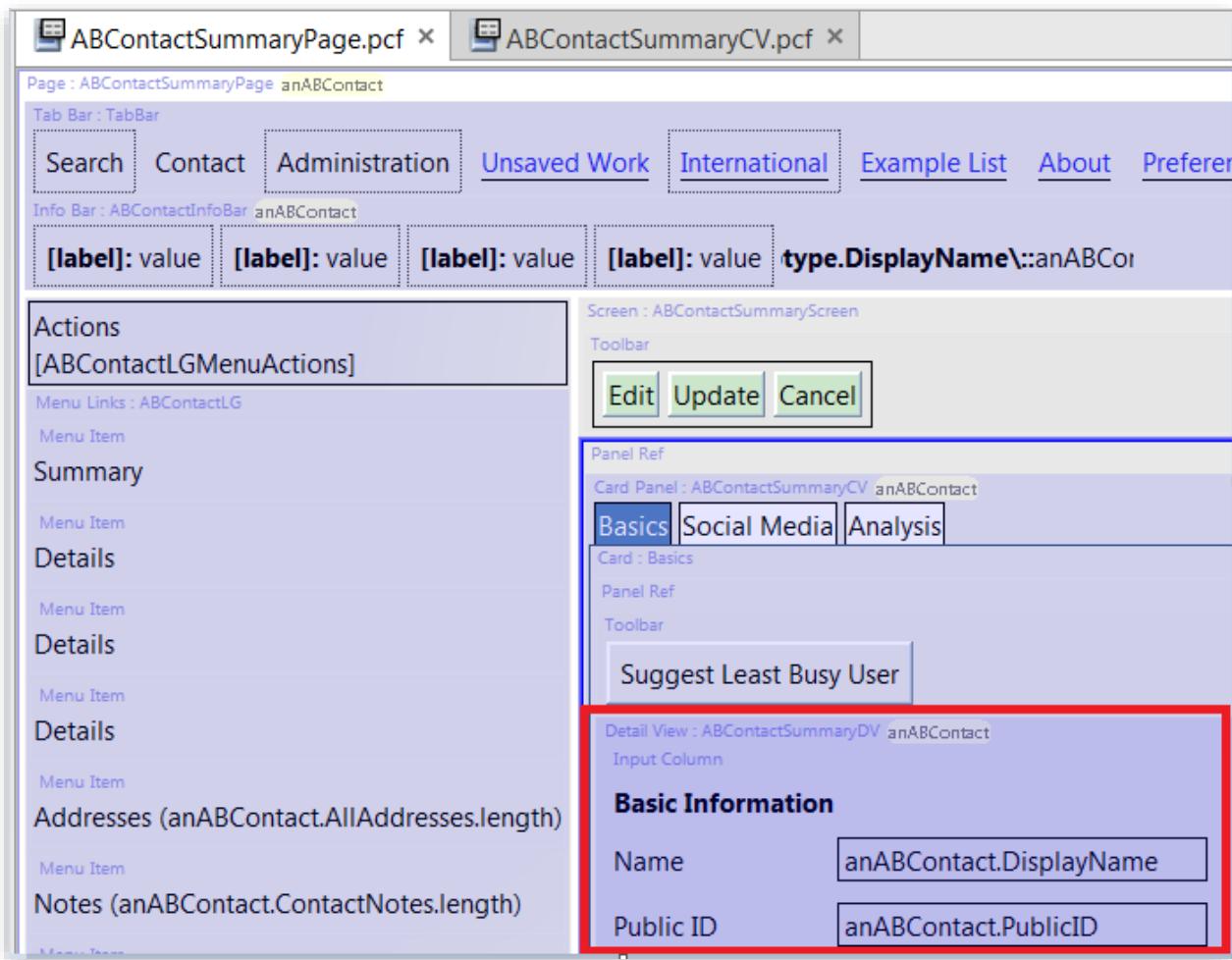
Action: Use ALT + SHIFT + E to open the page in Guidewire Studio.

6. Question: Review the ABContactSummaryPage.pcf structure in the Structure tab. What is the parent widget of the Toolbar widget?



ABContactSummaryScreen

7. Action: Navigate to the ABContactSummaryDV.pcf – Double click on the blue area



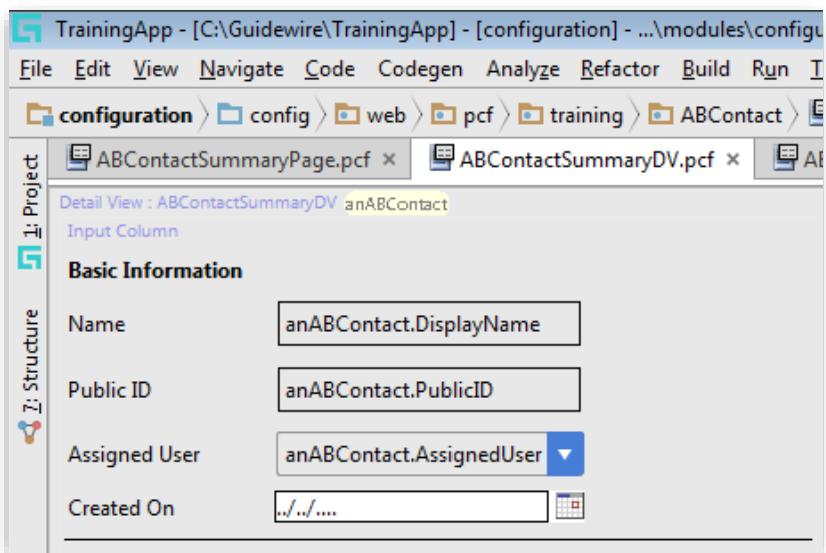
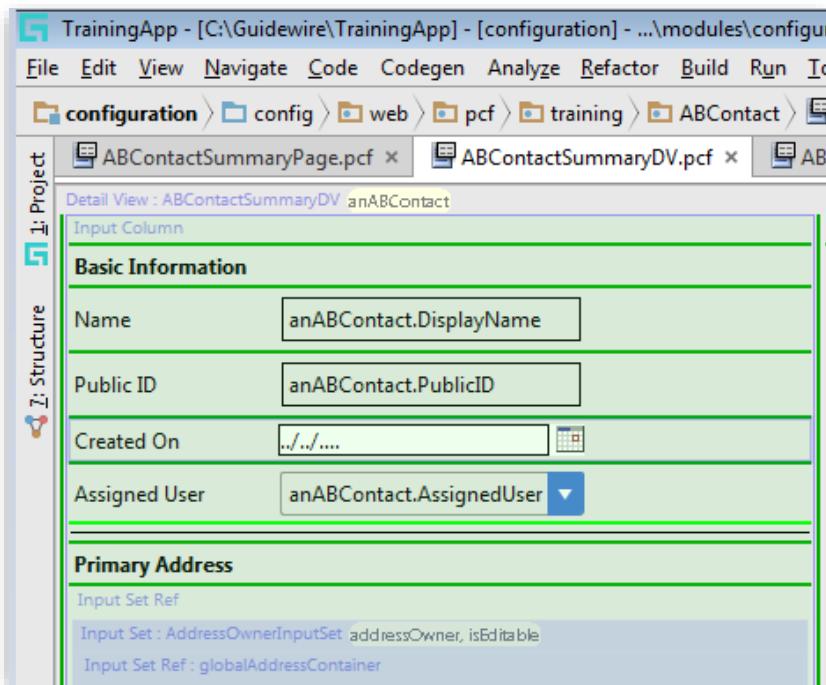
- Question: Review the ABContactSummaryDV.pcf in the canvas. How are you able to distinguish included sections from the widgets specified in the file itself?

Included sections are colored purple (the color varies depending on how deep the files are nested), whereas widgets that are in the file have a gray background.

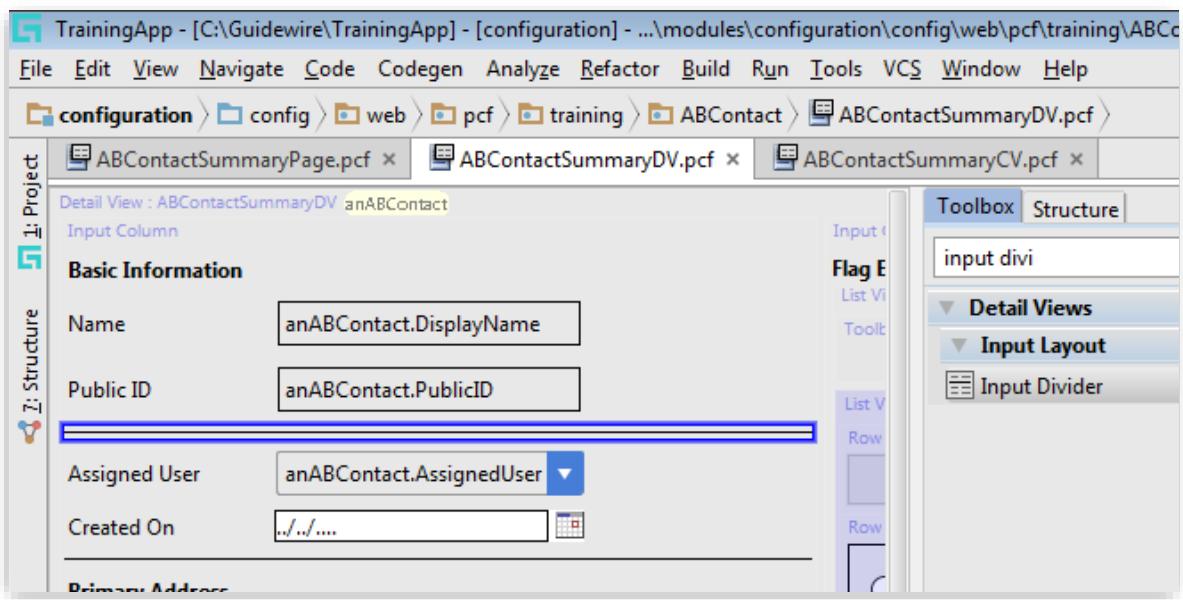
4.5 Lab Solution: Modify the Basics card on the Summary page

- Move Created On widget below Assigned User widget. You can drag the Created On to its new position.

Remember: Dark green lines are places where the widget could be placed; and the light green line is where the widget will be placed.



- a) From the Toolbox, add an input divider between Assigned User and Public ID



b) Reload the PCF changes using ALT + SHIFT + L in the browser.

Summary

Basics Social Media Analysis

Suggest Least Busy User

Basic Information

Name	William Andy
Public ID	ab:5

Assigned User

Created On	06/19/2018
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Primary Address