

Lesson 2 List Views

The business analysts want to capture specific information about each contact interaction such as a telephone call, email message, postal mail letter, or in-person office visit. Eventually, they want the information displayed in an Interactions section of TrainingApp.

The screenshot shows a web browser window for the 'TrainingApp' application. The URL is <http://localhost:8880/ab/ContactManager.do>. The page title is '[DEV mode - 9.0.15] Guidewire TrainingApp'. The main content area displays a list of interactions for a contact named 'Doctor: Samantha Andrews'. The 'Interactions' section has a header with 'Actions' (Update, Cancel), 'Add', and 'Remove' buttons. A table lists two interactions:

Date	Summary	Associated User
05/25/2016	Customer called to make a complaint	Alice Applegate
06/01/2016	Customer requested proof of coverage statement	Bruce Baker

The left sidebar contains navigation links: Actions, Summary, Details, Addresses (1), Notes (0), Social Media, Analysis, **Interactions** (selected), and History.

"We want a CSR (Customer Service Representative) such as Alice Applegate to be able to create and edit details about contact interactions." – Insurance company business analysts

In the previous lab, you created the Interaction_Ext entity and modified the ABContact entity to capture interactions. In this lab, you will implement the necessary **user interface changes** to display the interactions. You will also make the ListView editable in a later lab. As a configuration developer, you will use the PCF Editor in Guidewire Studio to modify the TrainingApp user interface.

2.1 Prerequisites

You must first complete the following previous lesson(s):

- Creating New Entities

For this lab, 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.

2.2 Lab: Create a List View

As a configuration developer, you want to be able to create reusable list view panels to be able to display information about multiple entities. In this lab, you will use the PCF Editor to create a reusable List View.

1. Create and configure the InteractionsLV PCF file:

- a) Create a List View Panel in the `traininglabs` folder
- b) Specify a root object of the type `ABContact`
- c) Each row of the List View must display the following:
 - `InteractionDate` field labeled as `Date`
 - `Summary` field labeled as `Summary`
 - `AssociatedUser` field labeled as `User` (use the `AltUserCell` widget)

2. Use Studio's code generation feature to process the PCF file and generate all the resources

- a) If possible, use incremental code generation
- b) Verify that there were no errors during code generation
- c) Verify that you can see generated resources (`.gs`, `.pcfc`, `Expressions.gs`)



Hint

Configuring cells

Remember, you can always use the Data Dictionary, the generated Java class, and the widget reference table to find out the name, database type and Gosu type of a field that needs to be displayed. Cells are atomic widgets and similar to input widgets.



Hint

Helpful hints that help you to completion.

The required variables tab defines the input parameters for a container, while the variables tab defines local variables to store values temporarily. (E.g. storing the result of an expensive function call to use it at multiple places in the PCF)

2.3 Lab: Reference the List View

As a configuration developer, you want to be able to reference reusable containers. In this lab, you will add the InteractionsLV to the ABContactInteractionsPage PCF file.

1. Navigate to the ABContactInteractionsPage and replace the inline Detail View

- a) Delete the Detail View
- b) Add a reference to the InteractionsLV
- c) Add a Toolbar to support paging



Hint

Toolbar

Every List View needs to have a Toolbar associated with it. Don't forget that List Views support pagination and the buttons will automatically appear when the number of elements exceeds the pageSize.

2.3.1 Verification



Activity

Verify the work you have done

1. Log in to TrainingApp as Alice Applegate
2. Use the appropriate shortcut to deploy the changes
3. View the Interactions page for William Andy
 - a) Navigate to William Andy
 - b) In the sidebar menu, click Interactions

- c) Verify that you see the Interactions List View (Note: There will be no data in the List View for now. This is because there are no interactions in the database yet. You will be able to insert new interactions in the Editable List Views lesson.)

The screenshot shows a software application window. On the left is a sidebar with a dark blue header labeled "Actions" and a green footer. The sidebar contains the following items:

- Summary
- Details
- Addresses (3)
- Notes (5)
- Social Media
- Analysis
- Interactions

The main area has a light gray header with the text "Person: William Andy" and a title "Interactions". Below the title is a toolbar with a green "Edit" button and a grid icon with a dropdown arrow. The toolbar also includes three columns: "Interaction Date", "Summary", and "Associated User". A message "No data to display" is centered below the toolbar.

2.4 Bonus lab: List Views and navigation

"In the screenshot below, the list view panel shows all the employee contacts associated with the employer. Currently, there is no navigable link in the list view panel to the employee contact. A user would need to search for the specific employee contact to see more details. Modify the list view panel so that each employee name links to the contact details page. For example, clicking on William Andy in the table would take us to the Details page of William Andy." – Insurance company business analysts

The screenshot displays two separate Dynamics 365 pages side-by-side.

Top Screen (Company Details):

- Actions:** Summary, Details, Addresses (1), Notes (0), Social Media, Analysis.
- Details:** Company Info tab selected. Data includes Name (Albertson's), Primary Contact (William Andy), Address (345 Fir Lane, La Canada, CA 91352), and Website (albertsons.com).
- Employee Info:** Can Have Employees? Yes, Number of Employees 4.
- Employees:** Cascade Email Address table:

Name	Job Title	Email Address
James Andersen		jandersen@legal.com
Samantha Andrews		sandrews@andrewsmid.com
Eric Andy		ericandy@albertsons.com
William Andy	Manager	willandy@albertsons.com

Bottom Screen (Person Details):

- Actions:** Summary, Details, Addresses (1), Notes (0), Social Media, Analysis, Interactions, History.
- Details:** Person Info tab selected. Data includes Name (James Andersen), Full Name (James Andersen), Prefix (James), First Name (James), Middle Name (Andersen), Last Name (Andersen), and Suffix.
- Employment Info:** Occupation, Employer (Albertson's).
- License Info:** Law License (S20-82325), Specialty.
- Contact Insights:**



Hint

Navigation

If needed, review the **Introduction to Locations** lesson.

2.4.1 Verification

1. Log in to TrainingApp as Alice Applegate
2. Reload the PCF changes

3. Go to the Details page for Albertson's

- a) Confirm that you are able to click a navigable link for each employee contact

Company: Albertson's

Details

Actions		Company Info			Phone & Addresses			Bank Accounts		
Summary										
Details										
Addresses (1)		Name			Albertson's			Employee Info		
Notes (0)		Primary Contact			William Andy			Can Have Employees? Yes		
Social Media		Address			345 Fir Lane La Canada, CA 91352			Number of Employees 4		
Analysis		Email Address			willandy@albertsons.com			Employees Cascade Email Address		
Interactions		Prefers Contact By Email?			No			Name	Job Title	Email Address
History		Additional Info			*****			James Andersen		jandersen@elegal.com
		Tax ID			*****			Samantha Andrews		sandrews@andrewsmd.com
								Eric Andy		ericandy@albertsons.com
								William Andy	Manager	willandy@albertsons.com

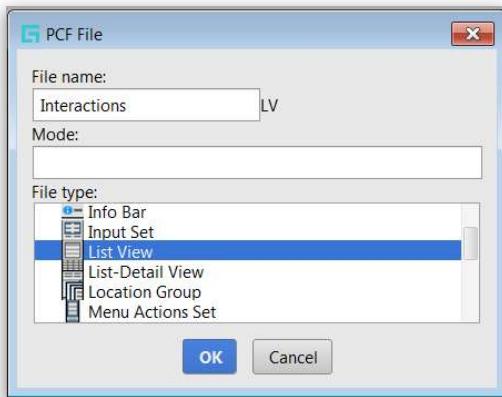


2.5 Lab Solution: Create a List View



Exact details on how to complete the lab.

1. Create traininglabs PCF folder if it doesn't exist.
2. Create the List View.



3. Specify the root object.

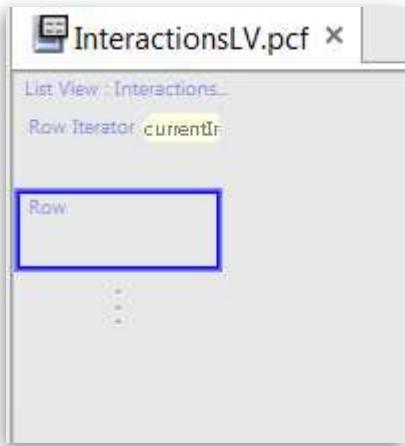
A screenshot of a software interface for creating a List View. The title bar says "InteractionsLV.pcf". The main area shows a large red placeholder box labeled "List View : Interactions". Below the main area is a toolbar with "Page Configuration" and "Text" tabs, and buttons for "Properties", "Variables", "Referenced Widgets", "Code", and "Required Variables". The "Required Variables" tab is active. A table titled "Require" lists two entries: "name*" with value "anABContact" and "type*" with value "ABContact".

4. Add and configure the Row Iterator

The screenshot shows the configuration interface for a page named "InteractionsLV.pcf". The left sidebar lists "List View : Interactions..." and "Row Iterators". The main area is titled "Row Iterator" and contains a table of basic properties:

Basic properties	
<u>editable*</u>	true
elementName*	currentInteraction
id	
toAdd	
toCreateAndAdd	
toRemove	
<u>value*</u>	anABCContact.Interactions_Ext
valueType*	Interaction_Ext[]

5. Add the Row



6. Add the Date Cell

The screenshot shows the Oracle ADF Designer interface with the following details:

- Page Title:** InteractionsLV.pcf
- Row Iterator:** currentInteraction
- Date Cell:** The date cell is highlighted with a blue border.
- Properties Panel:** Shows the following properties for the Date Cell:

Property	Value
action	
dateFormat	<none selected>
editable	true
id*	InteractionDate
label	DisplayKey.get("Ext.InteractionDate")
required	
timeFormat	<none selected>
value	currentInteraction.InteractionDate

7. Add the Text Cell

List View : InteractionsLV anABContact
Row Iterator: currentInteraction

Date	Summary
------	---------

Row

.../.../...	currentInteract...
-------------	--------------------

Page Configuration Text

Properties: Properties Reflection PostOnChange

Text Cell

Basic properties

action	
editable	true
id*	InteractionSummary
label	DisplayKey.get("Ext.Summary")
required	
value	x currentInteraction.Summary

8. Add the AltUserCell

The screenshot shows the Oracle ADF Designer interface for a page configuration named "InteractionsLV.pcf". The current view is "List View - InteractionsLV / anABContact". A Row Iterator named "currentInteraction" is selected. The visual editor displays a row structure with three columns: "Date", "Summary", and "User". The "User" column contains a cell component with a blue border, which is highlighted by a red rectangle in the screenshot. Below the visual editor, the "Properties" tab is active, showing the properties for the "AltUserCell". The "Basic properties" section includes the following settings:

action	
editable	true
id*	AssociatedUser
label	DisplayKey.get("Ext.AssociatedUser")
required	
value	x currentInteraction.AssociatedUser

2.6 Lab Solution: Reference the List View



Solution

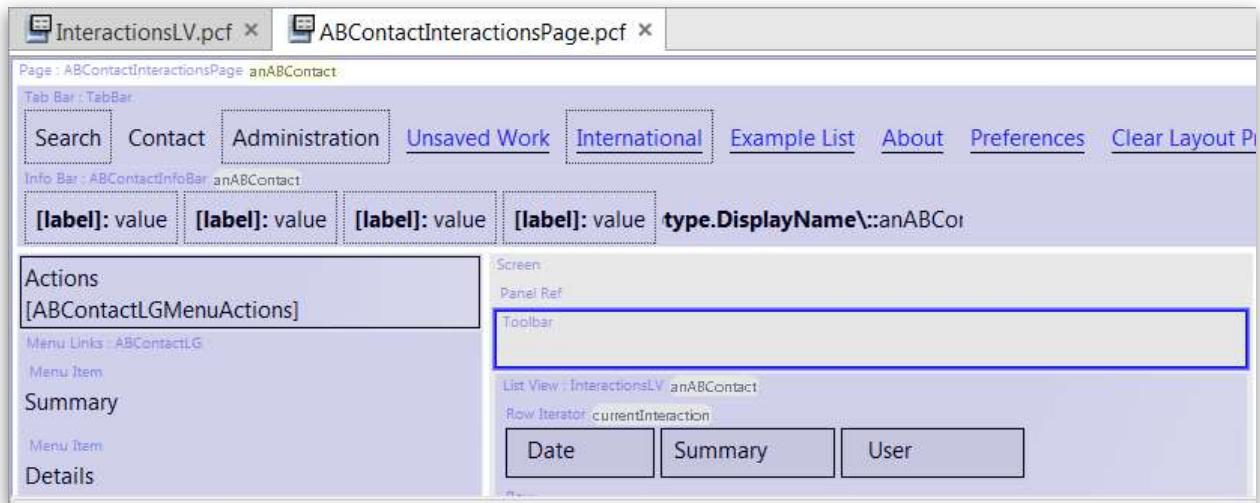
Exact details on how to complete the lab.

1. Open the ABContactInteractionsPage and replace the DetailView with a PanelRef.

The screenshot shows the ADF Faces Designer interface with the following details:

- Page Header:** InteractionsLV.pcf (active), ABContactInteractionsPage.pcf
- Page Title:** Page : ABContactInteractionsPage anABContact
- Tab Bar:** TabBar (Search, Contact, Administration, Unsaved Work, International, Example List, About, Preferences)
- Info Bar:** ABContactInfoBar (anABContact)
- Content Area:**
 - Actions:** [ABContactLGMenuActions]
 - Summary:** Menu Item
 - Details:** Menu Item
- Screen:** Panel Ref (List View : InteractionsLV anABContact)
 - Row Iterator: currentInteraction
 - Date
 - Summary
 - User
 - Row
 - .../...
 - currentInteract...
- Page Configuration:** Text
- Properties:** Properties
- Panel Ref:**
 - Basic properties:** def: InteractionsLV (anABContact)

2. Add a Toolbar into the PanelRef



2.7 Bonus Lab Solution: List Views and navigation



Solution

Exact details on how to complete the lab.

1. Define the **action** property of the TextCell in **ABCompanyEmployeesLV**
2. Set **actionAvailable** to true to allow navigation when not in edit mode

The screenshot shows the 'ABCompanyEmployeesLV.pcf' page configuration window. At the top, there's a toolbar with icons for 'Page Configuration' and 'Text'. Below the toolbar, the 'Properties' tab is selected, showing three buttons: 'Properties', 'Reflection', and 'PostOnChange'. Under the 'Properties' tab, the 'Text Cell' section is expanded, and the 'Basic properties' section is shown. The 'action' property is highlighted with a blue selection bar, containing the value 'ABPersonDetailsPage.go(currentEmployee)'. The main area of the window displays a list view with columns for 'Name', 'Job Title', and 'Email Address'. The first row of the list view has three cells labeled 'currentEmpl...', which are also highlighted with a blue selection bar.