Solution

5.6 Lab Solution: Practice Dot notation

1. **The creation date and time for anABContact.**

anABContact.CreateTime

2. **The tax status for anABContact.**

anABContact.TaxStatus

3. **The city for the primary address of anABContact.**

anABContact.PrimaryAddress.City

4. **All the buildings associated with anABContact.**

anABContact.Buildings_Ext

5. **Assuming that anABContact is a company, the number of employees for anABContact.**

(anABContact as ABCompany).NumberOfEmployees

6. **Assuming that anABContact is a legal venue, the type of court for anABContact.**

(anABContact as ABLegalVenue).VenueType

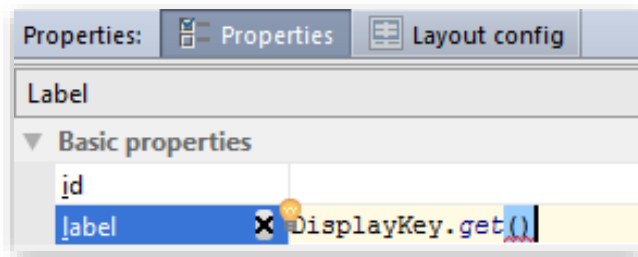## 5.7 Lab Solution: Determining widgets and their requirements

Solution

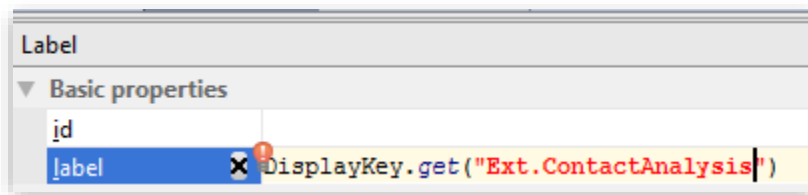|	Label/Info	Editable	Field	Datatype (Data Model)	Widget	valueType (Gosu)
1	Contact Analysis	n/a	n/a	n/a	Label	n/a
2	We need a horizontal divider	n/a	n/a	n/a	Input divider	n/a
3	Contact Tier	Yes	ContactTier	typekey.ContactTier	TypeKey Input	typekey.ContactTier
4	Customer Rating	Yes	CustomerRating_Ext	decimal	Text Input	java.math.BigDecimal
5	Strategic Partner	Yes	IsStrategicPartner_Ext	bit	Boolean Radio Button Input	java.lang.Boolean
6	Last Courtesy Contact	Yes	LastCourtesyContact_Ext	datetime	Date Input	java.util.Date
7	Fraud Investigation Number	No	FraudInvestigationNum_Ext	integer	Text Input	java.lang.Integer
8	Web Address	Yes	WebAddress_Ext	varchar(60)	Text Input	java.lang.String

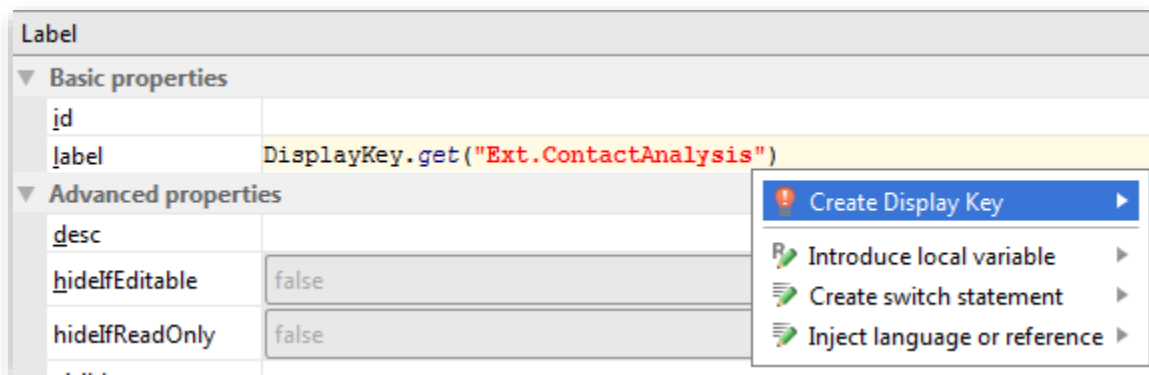## 5.8 Lab Solution: Add new atomic widgets

Solution

1. Call the get() function of the DisplayKey class in the label property.
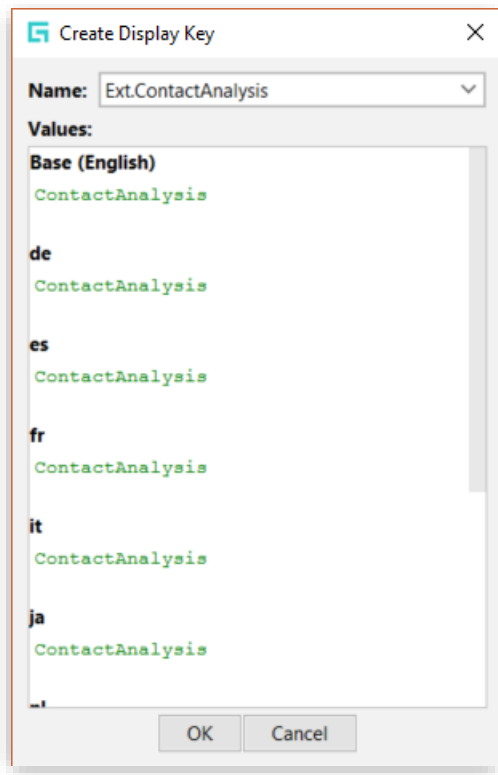

2. Enter the name for the display key in the get() function as a String parameter (between double quotes).
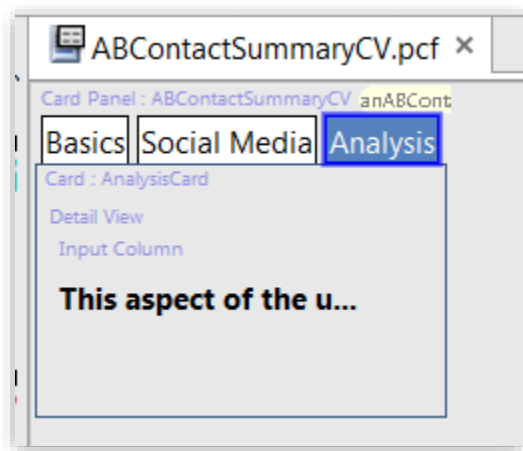

3. Press Alt + Enter, and click Create Display Key:

4. Then enter the text value for the locale and click OK

5. **Open the PCF file:**

   a) Open ABContactSummaryCV.pcf and select the Analysis card.

   b) To delete the existing label, right click on it and select Delete from the context menu.

6. **Drag and drop widgets inside the existing Input Column**

   a) Label widget for Contact Analysis label:

Label

Basic properties	
id	
label	DisplayKey.get("Ext.ContactAnalysis")

b) Input Divider widget to display a horizontal line:

Input Divider

Basic properties	
id	

c) TypeKey Input widget for Contact Tier

TypeKey Input

Basic properties	
editable	true
id*	ContactTier
label	DisplayKey.get("Ext.ContactTier")
required	
value*	anABContact.ContactTier
valueType*	typekey.ContactTier

7. Text Input widget for Customer Rating:

Properties:	Properties	Layout config	Reflection	PostOnChange

Text Input

Basic properties	
editable	true
id*	CustomerRating
label	DisplayKey.get("Ext.CustomerRating")
required	
value*	anABContact.CustomerRating_Ext

…and set the valueType to java.math.BigDecimal

validationExpression	
valueType	java.math.BigDecimal
visible	

8. Boolean Radio Button Input widget for Strategic Partner:

Boolean Radio Button Input

▼ Basic properties

editable	true
falseLabel	
id*	IsStrategicPartner
label	DisplayKey.get("Ext.IsStrategicPartner")
required	
trueLabel	
value*	anABContact.IsStrategicPartner_Ext

9. Date Input widget for Last Courtesy Contact:

Date Input

▼ Basic properties

dateFormat	<none selected>
editable	true
id*	LastCourtesyContact
label	DisplayKey.get("Ext.LastCourtesyContact")
required	
timeFormat	<none selected>
value*	anABContact.LastCourtesyContact_Ext

10. Text Input widget for Number Of Fraud Investigations…

Text Input

▼ **Basic properties**

editable	false
id*	NumberOfFraudInvestigations
label	DisplayKey.get("Ext.NumOfFraudInv")
required	
value*	anABContact.FraudInvestigationNum_Ext

…and set the valueType to java.lang.Integer

validationExpression	
valueType	java.lang.Integer
visible	

11. Text Input widget for Web Address:

Properties:	Properties	Layout config	Reflection	PostOnChange

Text Input

▼ **Basic properties**

editable	true
id*	WebAddress
label	DisplayKey.get("Ext.WebAddress")
required	
value*	anABContact.WebAddress_Ext

The completed design:

5.9 Bonus Lab Solution: Investigate optional widget properties

 Solution

Requirement: When a user attempts to modify the Is Verified widget value, a dialog box opens. The dialog box asks the user to confirm the change.

1. **Question:** What is the name of the attribute (property) for a BooleanRadioInput that displays a confirmation message in a dialog box?

showConfirmMessage

Requirement: The label for the Evaluation Date must be in bold in the user interface.

2. **Question:** What is the name of the attribute (property) for a DateInput that allows a configurator to implement a bold style for the label?

boldLabel

Requirement: When a user hovers over a Legacy Code text input widget with their mouse cursor, the user interface displays, "The code must come from the legacy claim system."

3. **Question:** What is the name of the attribute (property) for a TextInput that displays this message?

helpText