

Process-driven Information Systems

LECTURE 21

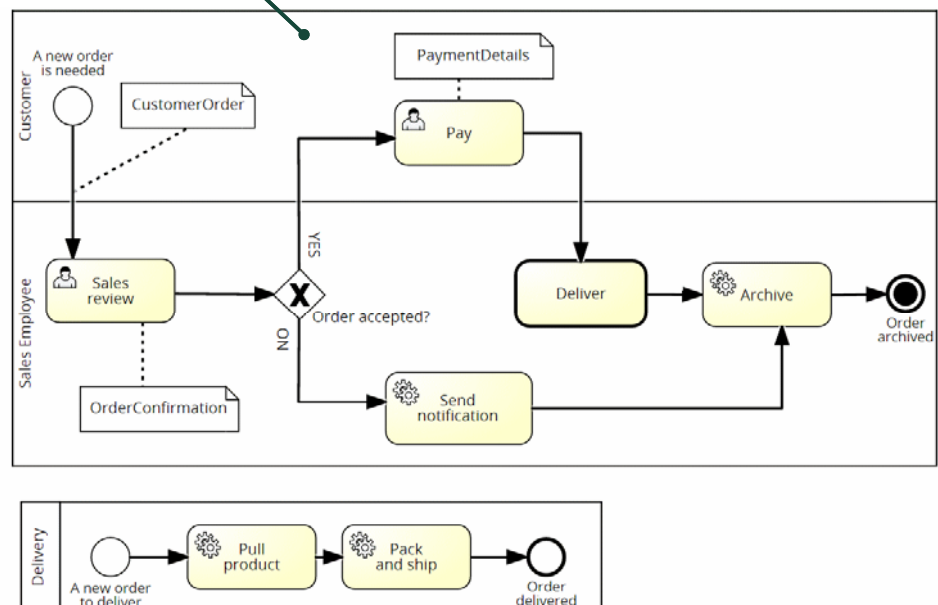
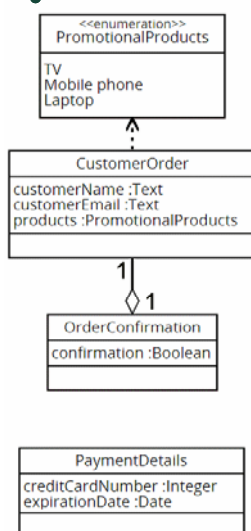
<http://www.iet.unipi.it/m.cimino/wdis/>

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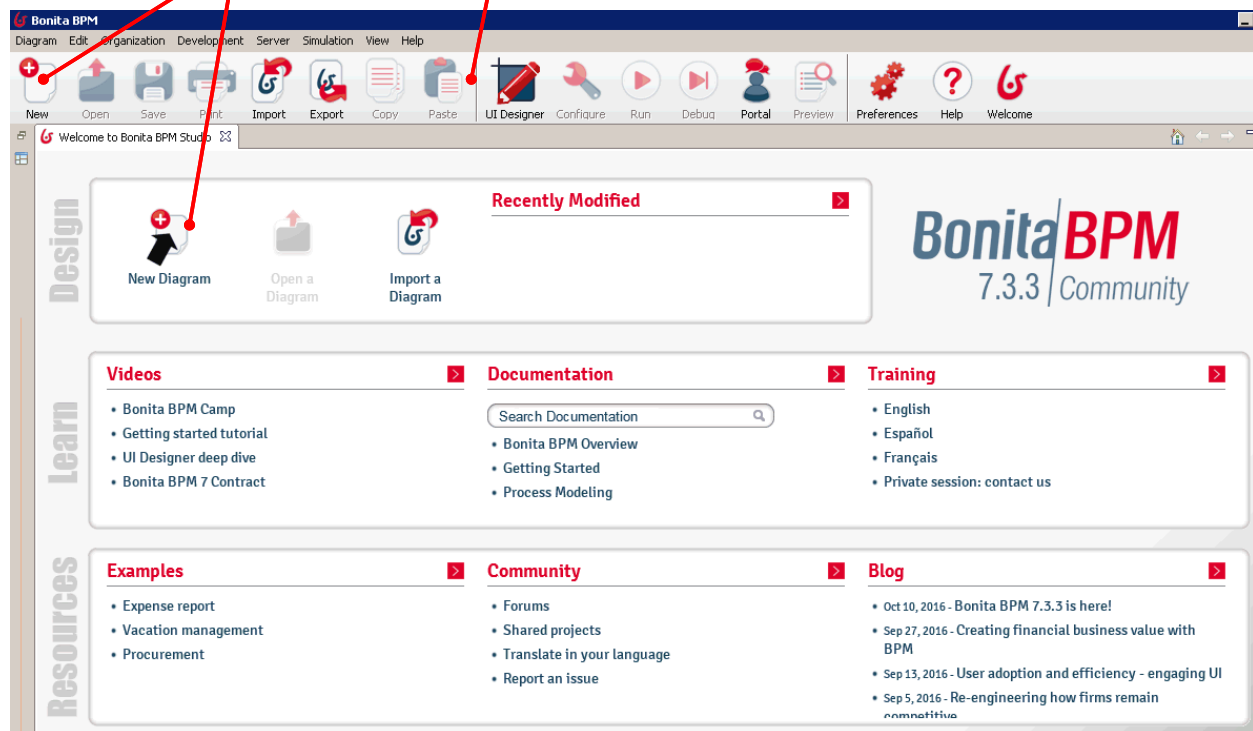
BP Modeling: Web purchase model with Signavio

2 of 16

- ✓ Our first model, edited with Signavio
- ✓ Class diagram (data model)
 - ✓ Business Process diagram (workflow model + data objects)



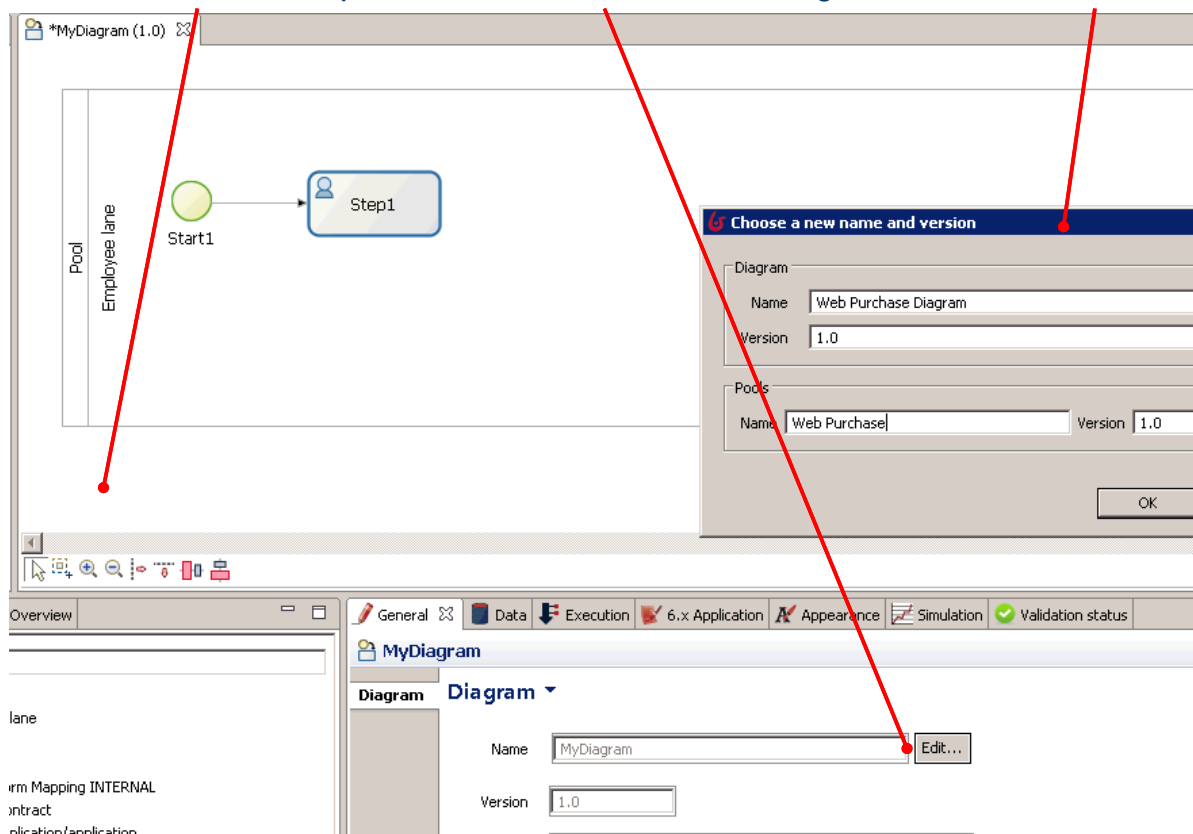
1. Select New from the Cool bar to create a new diagram



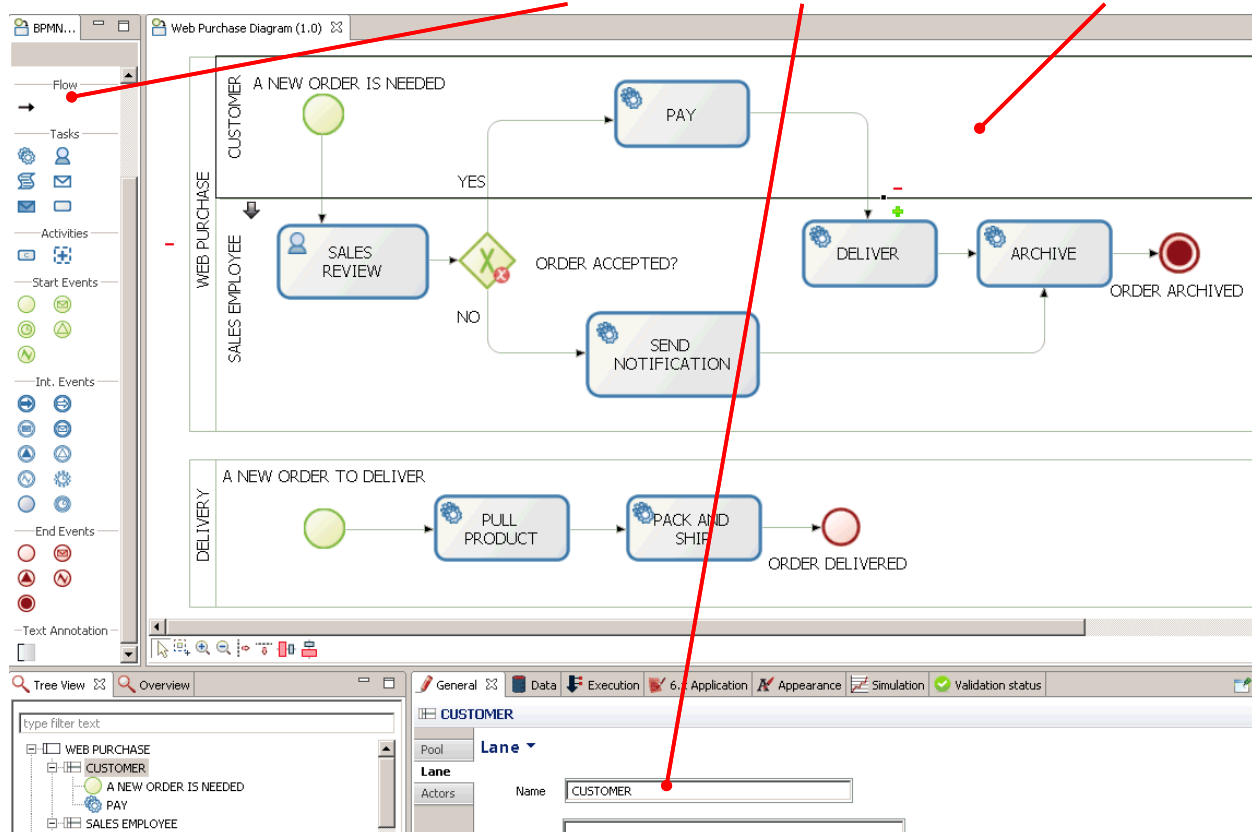
Bonita BPM: Diagram and Pool Name

4 of 16

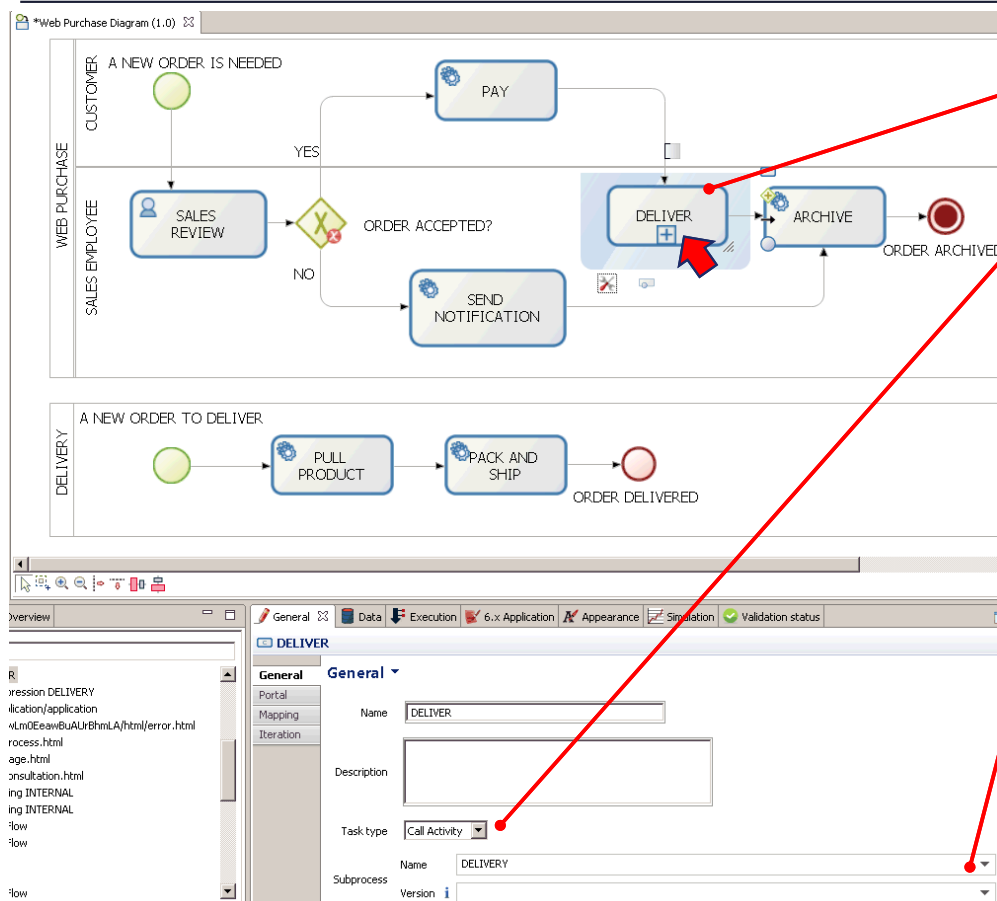
2. Click outside the pool, click on Edit, Enter Diagram and Pool Name



3. Create the diagram using the toolkit, configure the selected element

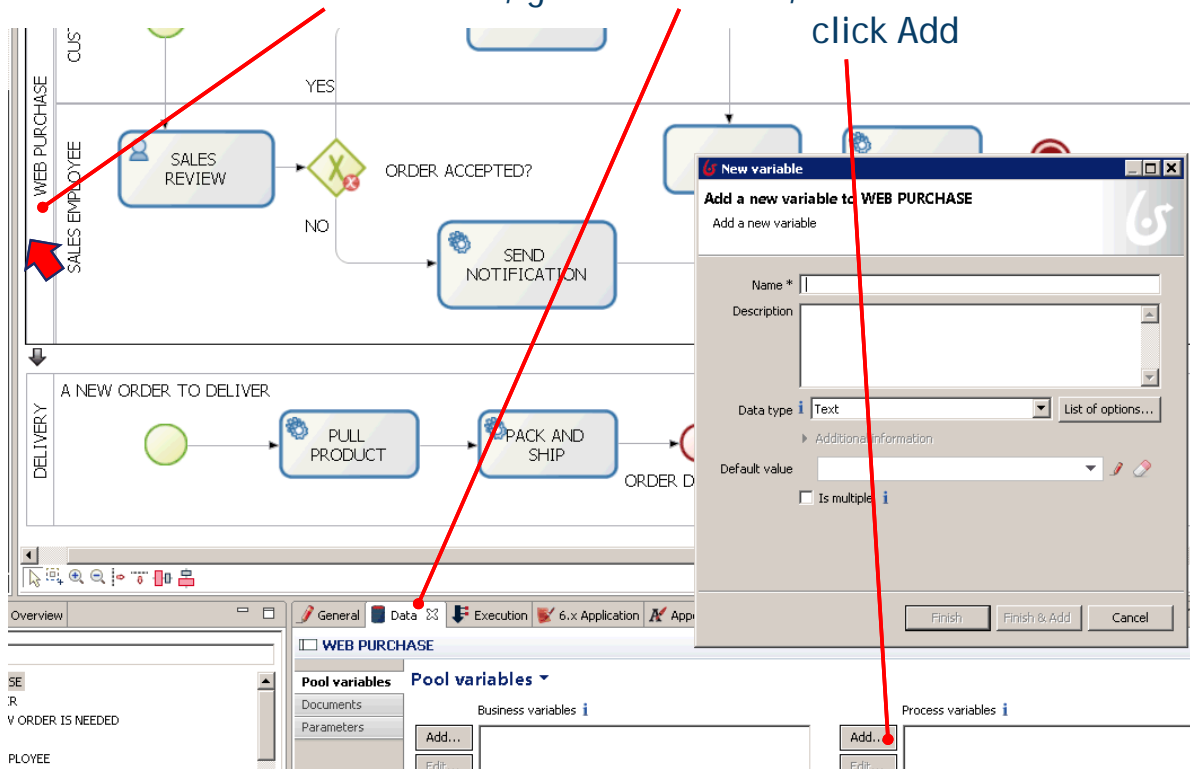


Bonita BPM: Connect a sub-process to a pool



4. Select the Deliver task, choose the task type *Call Activity*, and choose *Delivery* as a target name

5. Select the Web Purchase Pool, go to Data Pane, on Process variable click Add

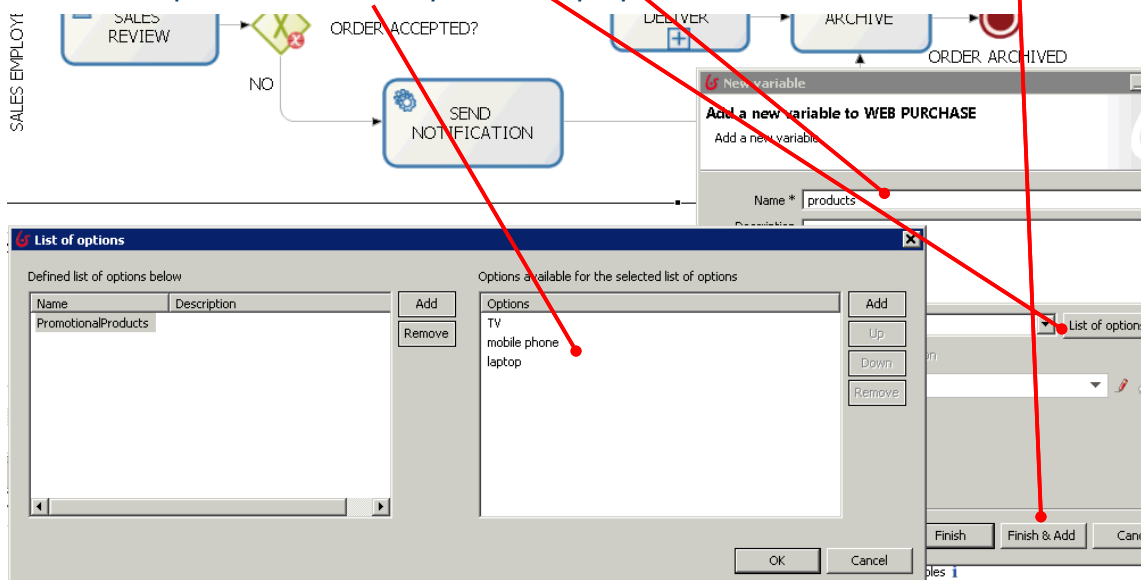


Bonita BPM: Add enumeration process variables

8 of 16

Process variables: can be used in a process and until the process instance is completed.

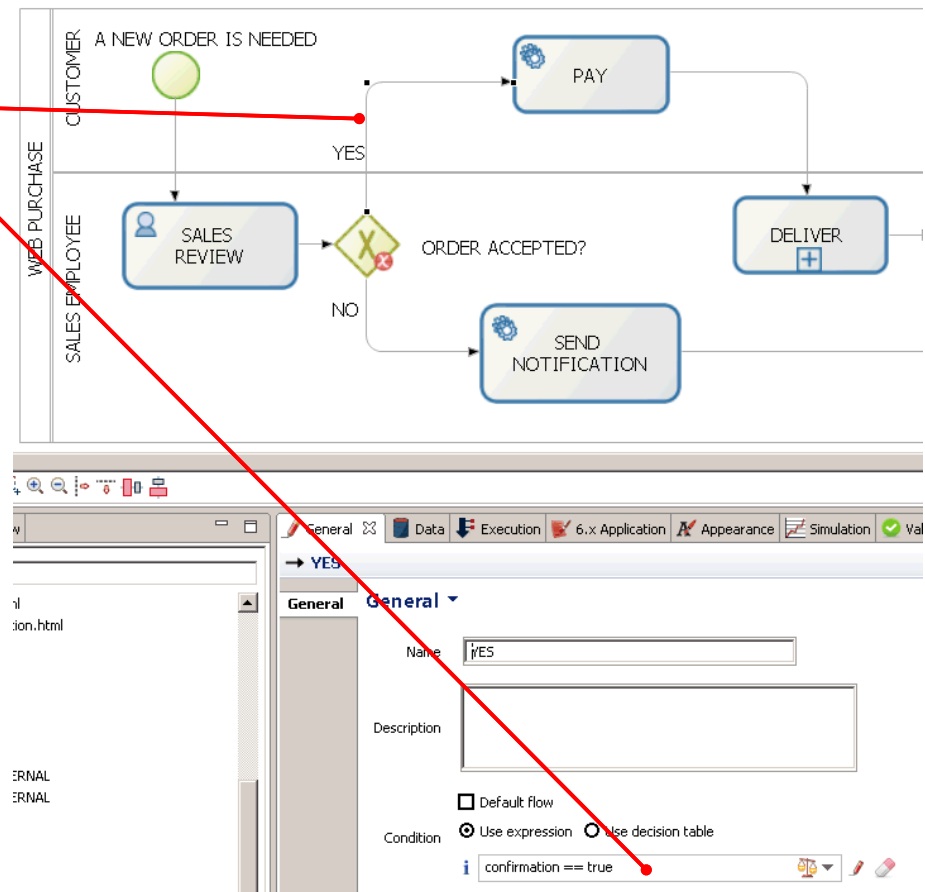
6. Enter *customerName*, leave Data type *Text*, and press *Finish&Add*
 enter *customerEmail*, leave Data type *Text*, and press *Finish&Add*
 enter *creditCardNumber*, Data type *Integer*, press *Finish&Add*
 enter *expirationDate*, Data type *Date*, press *Finish&Add*
 enter *confirmation*, Data type *Boolean*, press *Finish&Add*
 enter *products*, click on *List of options*. Name: *PromotionalProducts*,
 Options: *TV, Mobile phone e laptop*.



Transitions:

Select the branch "YES",
enter the expression
"confirmation == true"

Select the branch "NO",
enter the expression
"confirmation == false".



Connector:

Select the *Send notification* task,

Select *Execution* tab

Select *Connectors out*
➤ *Add*

In the popup windows

Select

Categories Messaging

➤ *Email (SMTP)*

Name: *Send notification*

➤ *Next*

➤ enter gmail account

➤ *Next*

➤ enter *from, to*

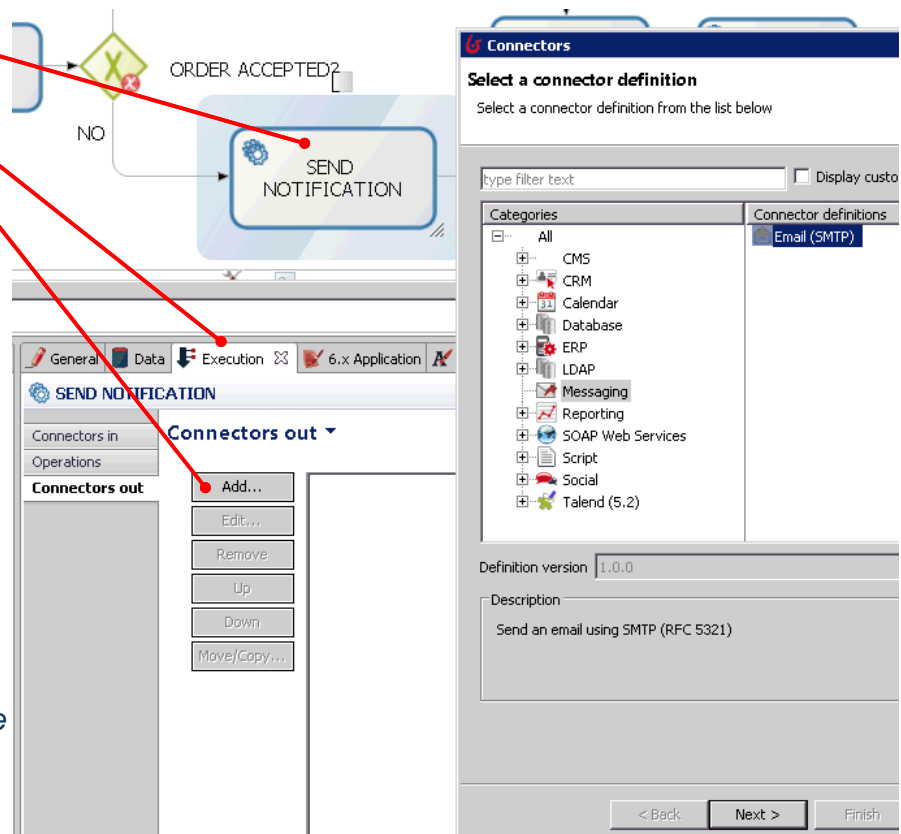
➤ *Next*

➤ enter

Subject: *Order refused,*

Message: *We are unable to fill your order at this time*

➤ Click on test, ignore the popup warning, check your email, > Finish.



Connector:

A plug icon appears on the task, and the connector in the tab on the bottom

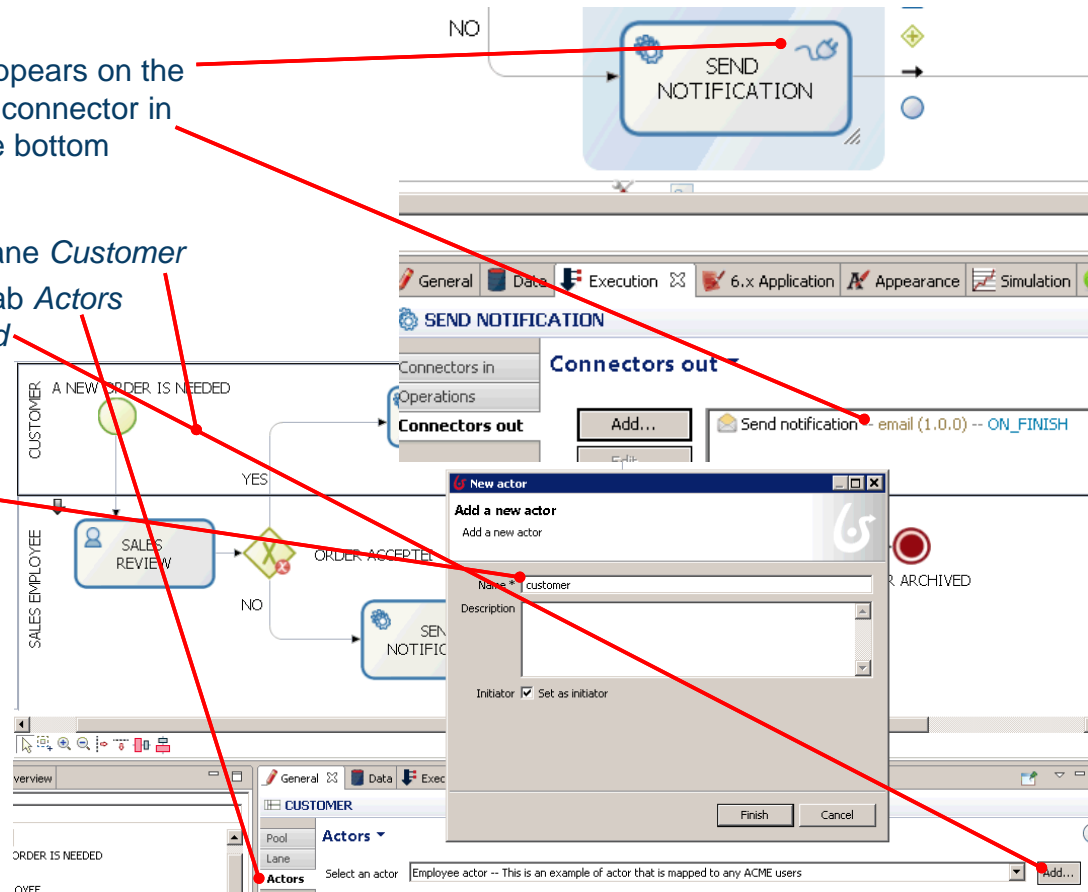
Actors:

- Select the lane *Customer*
- Select the tab *Actors*
- Click on *Add*
- Name: *customer*
- Set as *initiator*

Check

set as *initiator*

- Select the Lane *Sales Employee*
- Add
- Name: *employee*
- Finish



Bonita BPM: Map actors to people, forms for human tasks 12 of 16

Mapping Actors –people

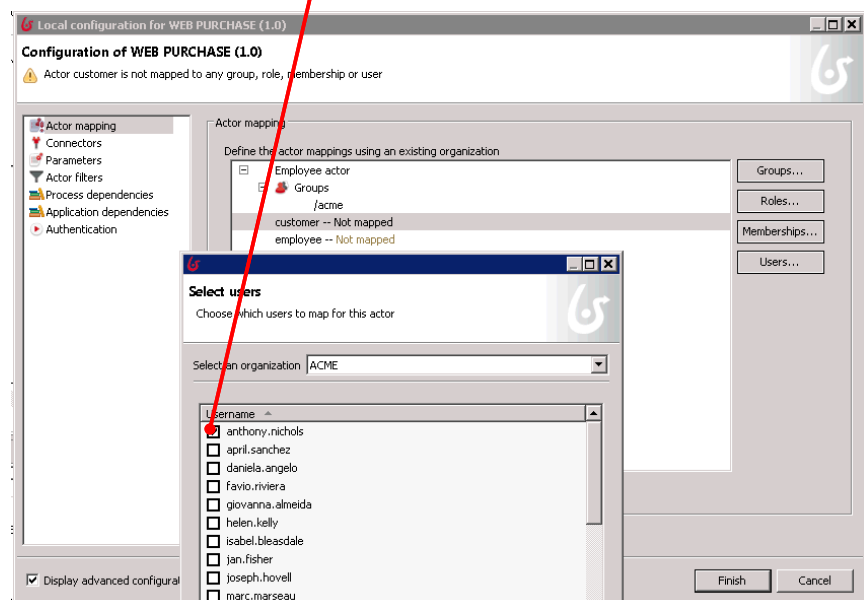
- Click on *Configure* on the cool bar.
- Select *customer* in Actor mapping > *Users* > *anthony.nichols* (pwd bpm)

Similarly

- Click on *Configure* on the cool bar.
- Select *employee* in Actor mapping > *Users* > *april.sanchez* (pwd bpm)

Forms and Data Objects

- Select the *Web Purchase Pool* > Tab *Execution*
- > Tab *Instantiation Form*
- 6.x
- 6.x Application
- Add
- ...



Forms and Data Objects

- Select the Process Variables *customerName*, *customerEmail*, *products*.
- A default form is created

Add form...

Enter the name and description for the form. Select data to show and update in the form. Click on the icon to switch between Process data and Business data. Choose the type of widget, depending on the data.

Name: WEBPURCHASE

Description:

Business variables | Process variables

☐ Select all

Name	Widget	Mandatory	Read only
<input checked="" type="checkbox"/> customerName	Text field	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> customerEmail	Text field	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> creditCardNumber	Text field	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> expirationDate	Date	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> confirmation	Checkbox	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> products	Radio buttons	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Activity Sales review

- Tab Execution > Tab Instantiation Form > 6.x > 6.x Application > Add
- Select *customerName*, *customerCredit*, and *products* as read only;
- finally add *confirmation*

Activity Pay

- Tab Execution > Tab Instantiation Form > 6.x > 6.x Application > Add > Select
- creditCardNumber*, and *expiration Date*.

Bonita BPM: use case

- Click the Run button in the Cool bar
- Open two different browsers and point to <http://localhost:8080/bonita/login.jsp>
- First browser > customer login > username: *anthony.nichols* password: *bpm*
- Second browser > employee login > username: *april.sanchez* password: *bpm*

Welcome: **Anthony Nichols** | User | Settings

Tasks Cases Processes

Search...

Name	Version
WEB PURCHASE	1.0

No description.

1 of 1

My cases

START

- as a customer, on the tab processes click on start

- fill the Web Purchase form and click on submit

Welcome: **Anthony Nichols** | User

Tasks Cases Processes

WEBPURCHASE

Customer Name *

Mario Cimino

Customer Email *

mario.cimino@unipi.it

Products *

☒ TV

☐ mobile phone

☐ laptop

SUBMIT

- In the second browser, as an employee, on the tab tasks there is a task to do

- Select the task and press *take*
- first case: press on SUBMIT (without confirmation)
> you will receive an email

The screenshot shows the Bonita BPM interface. On the left, there's a sidebar with 'To do', 'My tasks', and 'Done tasks' sections. The 'To do' section has a blue circle with the number '1'. The main area is divided into 'Tasks', 'Cases', and 'Processes' tabs. The 'Tasks' tab is active, showing a 'Task list' table. The table has columns for 'Task name', 'Process name', and 'Due date'. The first row is 'SALES REVIEW' under the 'WEB PURCHASE' process, with a due date of 'Dec 04 12:48 PM'. Above the table, there are 'TAKE' and 'RELEASE' buttons. On the right, the 'SALES REVIEW' form is displayed. It includes fields for 'Customer Name' (Mario Cimino), 'Customer Email' (mario.cimino@unipi.it), a 'Confirmation' checkbox, and 'Products' (radio buttons for TV, mobile phone, laptop). A 'SUBMIT' button is at the bottom right.

- As a customer, start a new process in the first browser
- Fill again the customer form and submit
- As an employee, check the confirmation flag and submit

- As a customer, select the task PAY and press *take*

The screenshot shows the Bonita BPM interface with the 'PAY' task selected. The sidebar on the left shows 'To do', 'My tasks', and 'Done tasks' sections. The 'My tasks' section has a blue circle with the number '1'. The main area shows the 'Task list' table with the 'PAY' task selected under the 'WEB PURCHASE' process, with a due date of 'Dec 04 1:09 PM'. The right panel shows the 'PAY' form. It includes fields for 'Credit Card Number' (1234567) and 'Expiration Date' (2016 December 9). A 'SUBMIT1' button is at the bottom right.

- Fill the PAY form on the right and submit
- As an employee, you can now see in *done tasks* the task history