MODULE 1: PROCESS INNOVATION USING BPM

Exercises / Solutions

SAP NetWeaver Product Management SOA
Process Innovation

Exercise 1: Sketch ‘Investment Approval Process’ within Process Composer

With this exercise you are going to sketch the process diagram for the Investment Approval Process. This process contains human activities, automated activities, events and message flows. You are going to maintain the technical properties and make this process run in module 6.

1. The goal of this exercise is to model the process flow of the “Investment Approval Process”. The final result will look like the one depicted in the figure to the right.

2. Open the SAP NetWeaver Developer Studio. Click on the drop down arrow for Workspace and choose the appropriate workspace D:\workspaces\ds4Workspace\studentx. Substitute ‘x’ with the number assigned to you. Alternatively, click on the ‘Browse’ button and select your workspace.
3. Switch to the ‘Process Composer’ perspective (Window → Open Perspective → Other…; next select ‘Process Composer’ and click ‘OK’).

4. An appropriate project exists already in the Project Explorer of the Process Composer. Its name is “studentx_mod6_ex1” (due to the fact that we will finalize this process in module 6—Module6_Process_Composition&Execution.doc). Substitute ‘x’ with the number assigned to you. Expand the appropriate node.
5. Now you can create a process by right-clicking on the “Processes” node and choosing “New…” from the context menu.

6. Enter the name “Investment Approval Process” for the process and click on ‘Next’.
7. Now you are able to create start/end events from service operations. You can also create a pool and define the orientation in the diagram. For our exercise please select ‘Create start and end event from a service operation’ and ‘Create a new pool’. As orientation of the pools we choose ‘Top to bottom’. Click on ‘Finish’.
8. Now you have created a pool and you can model your process there. On the right side you can find the palette where all the elements which you can use for modelling processes are listed.
9. Right-click on the connection between start and end event and select ‘Delete’ from the context menu. We will create new connections soon.

10. Assign the name ‘Investment Approval Process’ to the created pool (just click once into the name field and adjust the name).
11. Add 2 more lanes to the pool by either right clicking into the “Investment Approval Process” header area of the process diagram and choosing “Create Lane” from the context menu or by choosing the appropriate speed button, which appears while moving the mouse pointer into the same header area. Name the three lines ‘Purchase Requester’, ‘Purchase Manager’, and ‘ERP’ respectively.

12. Model the first human activity ‘Enter Purchase Request’ by dragging the ‘Activity’ speed button for the ‘Start’ event into the “Purchase Requester” lane and choosing “Human” from the context menu that pops up once you have released the mouse button. Speed buttons appear while moving the mouse pointer over the appropriate icon (in
13. Model another human activity, connected from the just created activity, in the “Purchase Manager” lane and name it ‘Approve Purchase Request’. In order to achieve this, drag the ‘Activity’ speed button into the Purchase Manager’s lane and select “Human Activity” from the context menu that pops up once you’ve released the mouse button.
14. Model a gateway for ‘exclusive choice’. In order to achieve this, drag the ‘Gateway’ speed button into the Purchase Manager’s lane and select “Exclusive Choice” from the context menu that pops up once you’ve released the mouse button.

15. Create a new connection from the gateway back to the “Enter Purchase Request” step by utilizing the “Connection” speed button. Drag the speed button to the node you want a connection to.
16. From the gateway create a new automated activity in the “ERP” lane and name it “Create Purchase Order”.

17. Move the two automatically created labels “Alternative 1” and “Alternative 2” close to the connections they are representing (see screenshot).
18. Rename the alternatives as follows: select the “Alternative 1” label in the modelling environment, click on the “Properties” tab strip in the window below and overwrite the label’s name with “Resubmit”. Repeat the step for the second label and name it “Approved.”

19. Finally connect the automated activity with the End event. Save the project.
20. The final result should look like the screenshot to the right. The red “x” marks are normal as the project is not complete as yet. It will be completed later on.