

Lab 4 As Is Process Static Analysis

IS210 – Business Process Analysis and Solutioning

Today Agenda



- Review of Lab 3 Creating of Process Diagram
- Lab 4 As Is Process Static Analysis
- Download the following from eLearn Week 4
 - Lab4 As Is Process Static Analysis.pdf
 - Rental Application Process As Is.bpmn
- No Submission required

Recap of Lab 3



- Understanding the Business Process Scenario
- Creating a Business Process Diagram
 - Login to Signavio
 - Create a Folder to store Lab Process Diagram
 - Create new Process Diagram via
 - Editor
 - QuickModel

Lab 4 - Overview



- 1. Invite friends and Share Workspace
- 2. Importing and Exporting of Process Diagram
- 3. Settings using attributes panel
- 4. Creating Quantitative Analysis Report
- 5. Generation of Business Process Diagram
- 6. Managing attribute visualization layers

Part 1 – Invite friends and Share Workspace

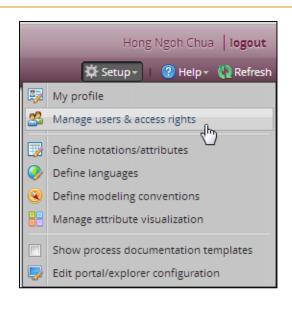


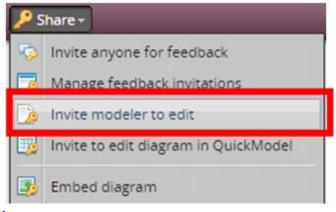
Invite Friends to your workspace

- Explorer View
 - Setup -> Manage users and access rights



- Explorer View
 - Select a process diagram
 - Share -> Invite modeler to edit

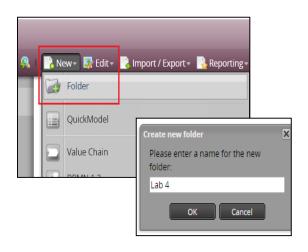




Part 2 – Importing & Exporting of Process Diagram

Import Process Diagram

- Create a new folder "Lab 4"
- Click "Import/Export" and
- Select "Import BPMN 2.0 XML"





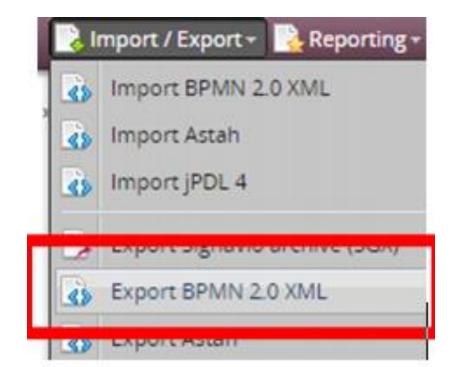
Create New Folder

Import Process Diagram



Export Process Diagram

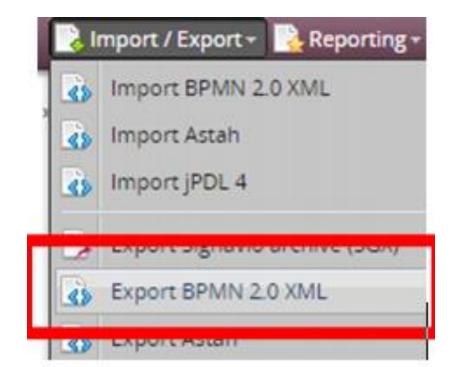
- Select the Process Diagram
- Click "Import/Export" and
- Select "Export BPMN 2.0 XML"





Export Process Diagram

- Select the Process Diagram
- Click "Import/Export" and
- Select "Export BPMN 2.0 XML"



Part 3 – Settings using Attributes Panel



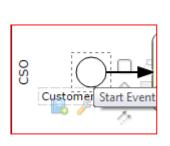


Model Process Diagram

- Frequency for Start Event
- Execution Time for each task
- Distribution for each gateway

Start Event

 Frequency (per year) – How often a process is started via entry point





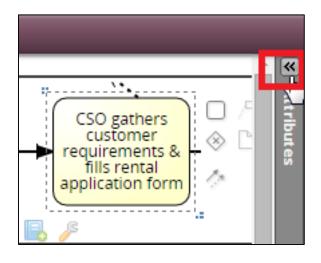
25 Instances / day
5 Working days/week
52 weeks/year
25*5*52 = 6500

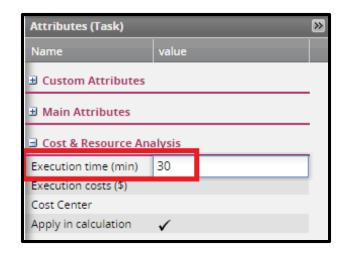
Part 3 – Settings using Attributes Panel



Roles

- Represents Positions or Responsibilities of people within an organisation
- Availability (Timetable) and Cost & Resource are specific to Roles





Part 3 – Simulation Attributes settings using attribute settings using attributes settings using attributes settings using attributes settings using attributes settings using attribute settings using attributes settings using attributes settings using attributes settings using attributes settings using attribute setting attributes settings using attributes settings attributes attribute

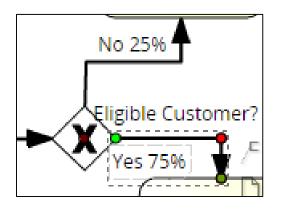
Cost and Resource Analysis - Execution Time

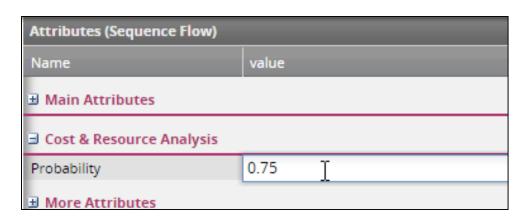
Cur Step	Prev Step	Task Description	Execution Time (min)
1	-	CSO gathers customer requirements & fills Rental Application Form	30
2	1	OD dispatches Rental Application Form from CSO to MO	5
3	2	MO checks availability of choice industrial space using IMS using information from the rental application form	25
4	3	MO proceeds to CSC to meet customer	5
5	4	MO obtains customer UEN & verifies eligibility from government website	5
6a	5	MO markets choice industrial spaces to customer if UEN eligible (75%)	45
6b	5	MO informs customer of UEN ineligibility and updates Rental Application Form of rejection status (25%). Process ends.	3
7a	6a	If customer rejects choice industrial space, MO updates Rental Application Form of customer rejection (10%). Process ends.	3
7b	6a	If customer accepts choice industrial space, MO reserves customer selection in IMS, updates Rental Application Form & passes form to customer (90%)	5
8	7b	MO sends email to LM for Rental Application approval	3
9	8	CSO collects rental application form and booking fee from customer. CSO note down the payment and issue receipt to customer. Process ends.	12

Part 3 – Simulation Attributes settings using Attributes settings using Attributes

Probability of Gateway

- Set probability at the sequence flow connector





- Set probability for all sequence flow connector

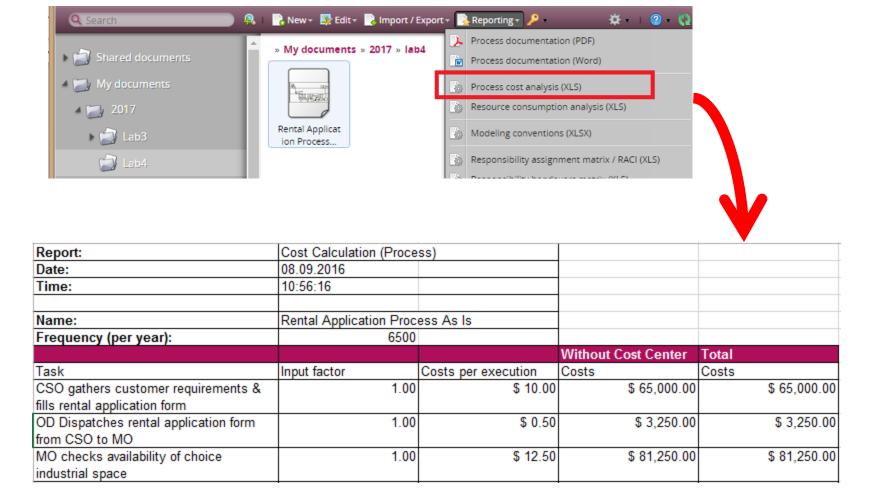
Decision Points	Yes (%)	No (%)
Customer eligible for rental of industrial space?	75	25
Customers decision on the choices of industrial spaces recommended by the MO?	90	10



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Process Cost Analysis

Shows weighted average process cost





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CSO = \$20 / hr Execution Time = 30mins Cost = =0.50 * \$20 = \$10

				Without Cost Center	Total
Task	Input factor		Costs per execution	Costs	Costs
CSO gathers customer requirements & fills rental		1.00	\$ 1	0.00 \$ 65,000.0	0 \$65,000.00
application form					
OD Dispatches rental application form from CSO to MO		1.00	\$	0.50 \$ 3,250.0	0 \$ 3,250.00
MO checks availability of choice industrial space		1.00	\$ 1	2.50 \$ 81,250.0	0 \$81,250.00
MO proceeds to CSC to meet customer		1.00	\$	2.50 \$ 16,250.0	0 \$ 16,250.00
MO obtains customer UEN and verifies eligibility fro		1.00	\$	2.50 \$ 16,250.0	0 \$ 16,250.00
government website 75	%x90%				
MO markets choice industrial spaces to customer	700000	0.75	\$ 2	2.50 \$ 109,687.5	0 \$ 109,687.50
MO reserves customer selection in IMS and updates	·	0.68	\$	2.50 \$ 10,968.7	5 \$ 10,968.75
application form & pass form to customer					
MO emails LM for Rental Application approval		0.68	\$	1.50 \$ 6,581.2	5 \$ 6,581.25
CSO collects rental application form and booking fee from		0.68	\$	4.00 \$ 17,550.0	0 \$ 17,550.00
customer & informs 2 working day wait time		_	H		
MO updates rental application form of customer rejection	1	0.08	\$	1.50 \$ 731.2	5 \$ 731.25
MO informs customer of UEN ineligibility and updates		0.25	\$	1.50 \$ 2,437.5	0 \$ 2,437.50
rental application form of rejection status					
Sums 75	%x10%		\$ 50.	76 \$ 329,956.2	5 \$ 329,956.25
7.5	/UXIU/U			Ψ 323,930.2	υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ

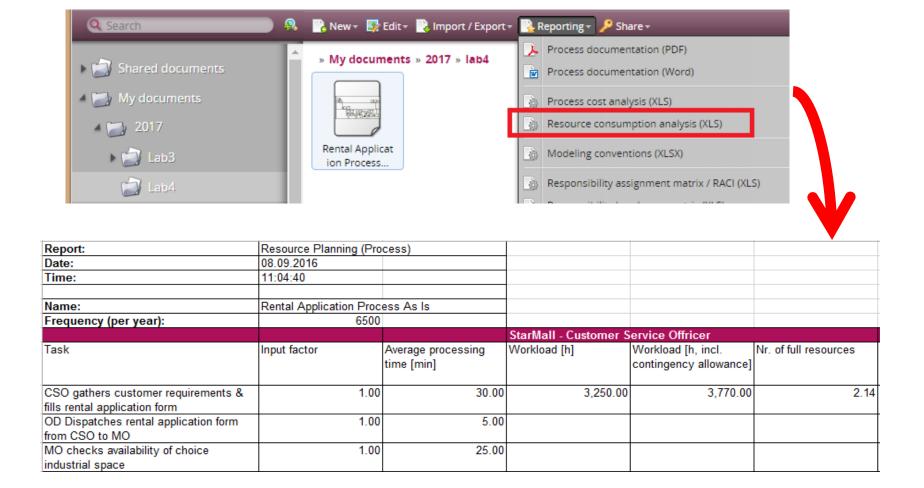
Weighted average process cost



Information Systems

Resource Consumption Analysis Report

- Compute the time consumption for each task

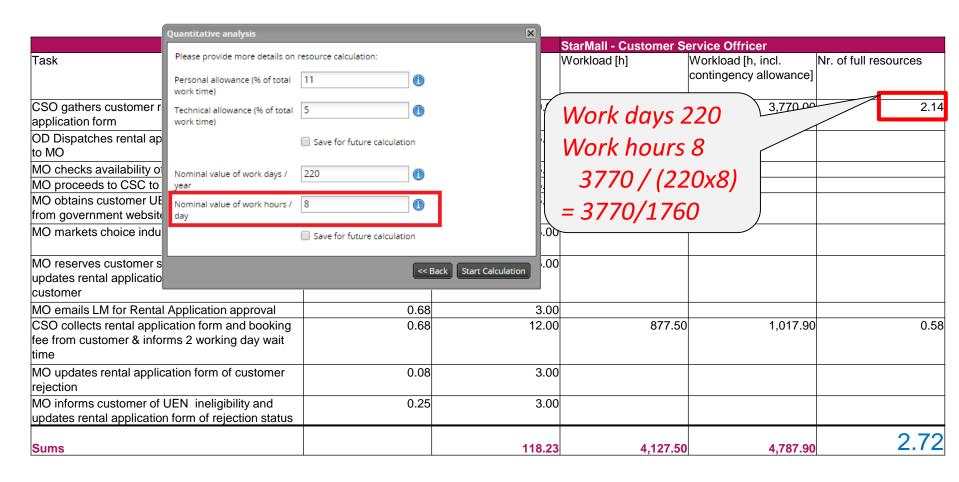




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Resource Consumption Analysis Report

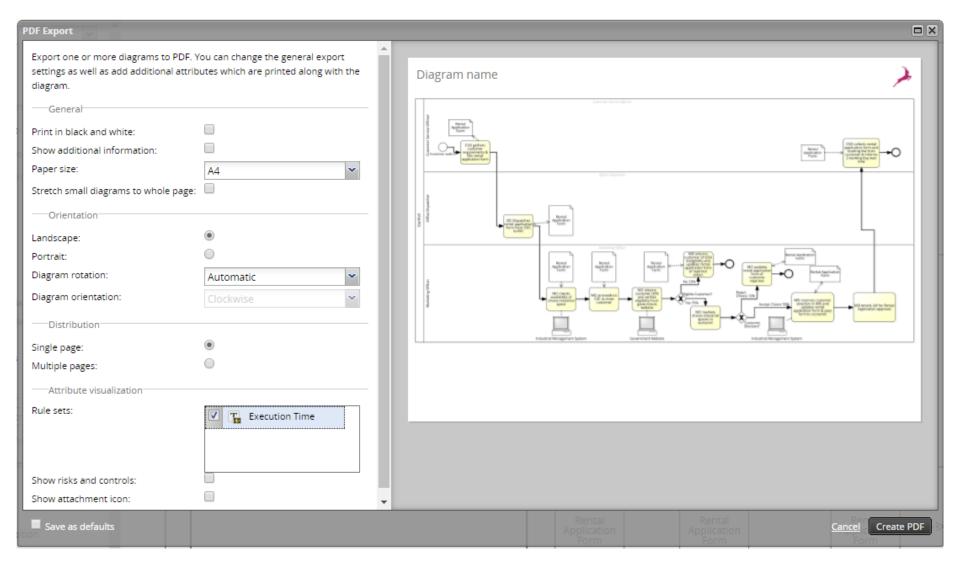
- Shows estimated required number of resources



Part 5 – Generation of Process Diagram



Export Process Diagram to a PDF document

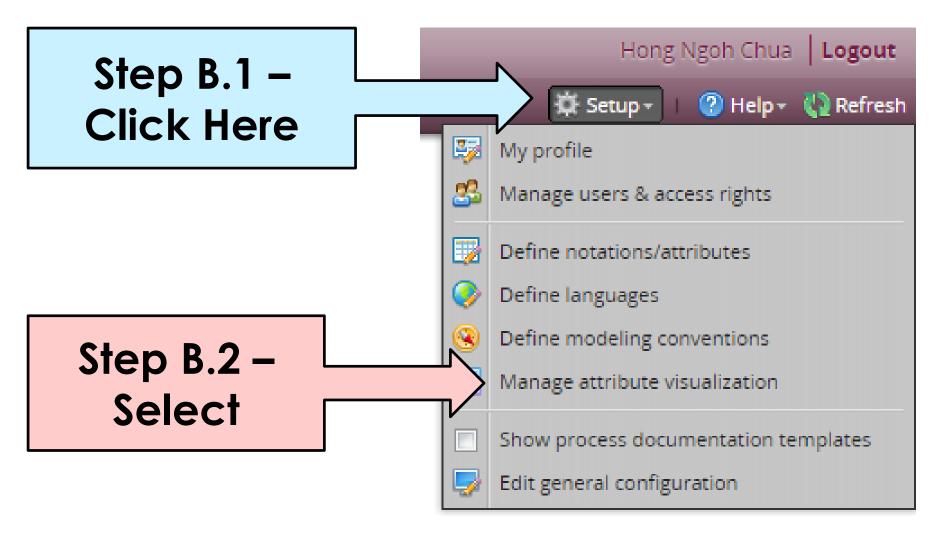


Part 6 -

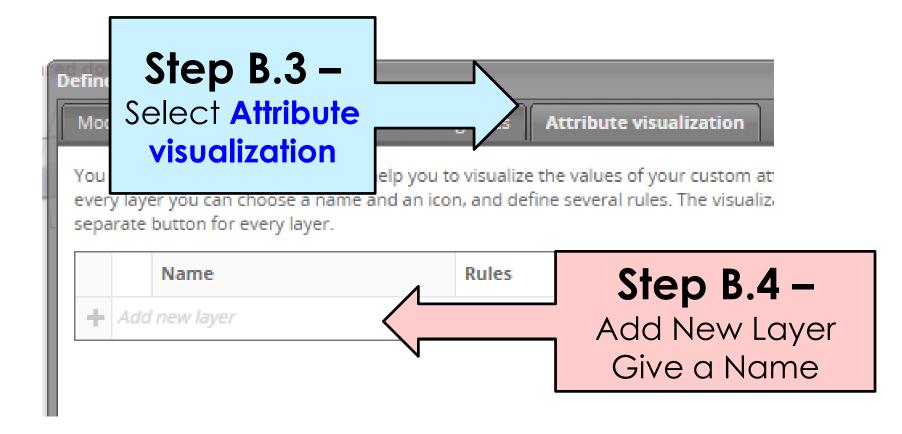


Information Systems

Managing attribute visualization layers



Part 6 – Managing attribute visualization layers

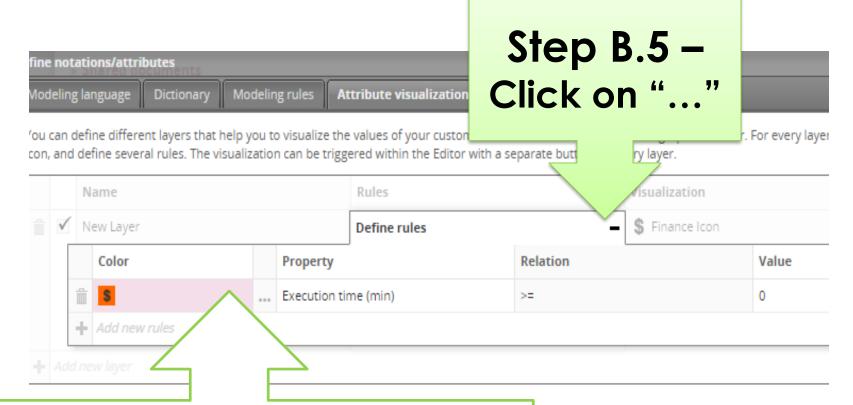


Part 6 -



Information Systems

Managing attribute visualization layers



Step B.6 -

Color -> Any colour you like

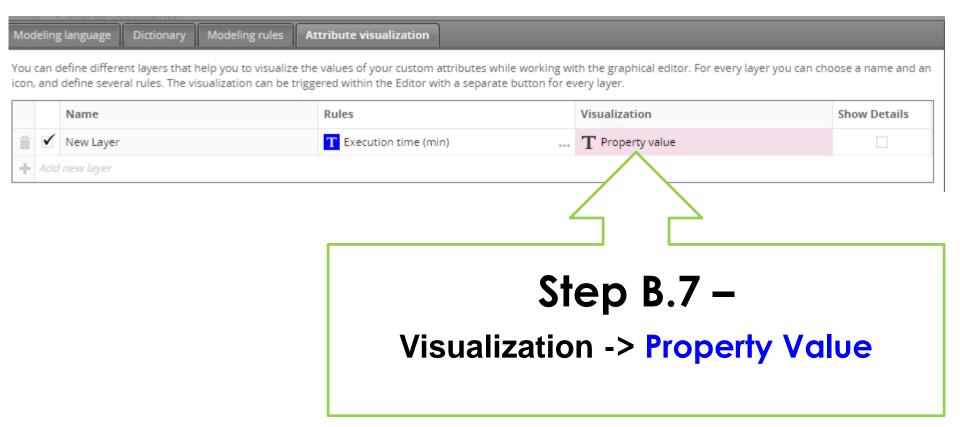
Property -> Execution Time(min)

Relation -> >=

Value $\rightarrow 0$

Part 6 -Managing attribute visualization layers





Class Reflection





Individual



5 Minutes



Module 5: Business Process Analysis – Static Lab 4 – As Is Process Static Analysis



Reflect about the class

Answer the questions at the Google Form https://smu.sg/IS210Reflect