

Automatic Generation of Activity Labels for Event Abstraction

Context

Event and activity abstraction are important tasks to reduce the complexity of (discovered) process models, which enables process stakeholders to better comprehend a modeled process or gain insights from it. Numerous abstraction techniques exist that address this task by detecting sets of low-level process steps that can be grouped into higher-level business activities. However, identifying such groups does not yet lead to useful abstracted process models, since a proper process model needs suitable labels for each of its activities.

Approach goal

To overcome this issue, we have developed an approach that aims to generate meaningful labels for sets of grouped process steps, which can be used as a suitable label for the higher-level activity that represents such a group.

Study goal and setup

In this study, we aim to evaluate the suitability of these generated labels by assessing the quality of individual labels and comparing the results of multiple generation strategies to each other and to a gold standard.

We ask you to make such assessments for a total of 10 cases (determined by your assigned *batch number* found in the e-mail). For each case, we will show you a (fragment of a) process model and the natural language labels we extracted from it, accompanied by at most 4 unique generated labels. We then ask you to please (1) pick the best label from the selection, (2) assign one (or more) reason(s) for this selection, and (3) rate the selected label with respect to the criteria described below. Then, (4) compare against a label created by a human stating if this is better than the model-generated label you selected and rating it according to the same criteria.

Assessment criteria

For these assessments, we consider different reasons that can make a label suitable for a model fragment. Ideally, a label should reflect one or more of these reasons. Namely, we ask you to consider if you feel a selected label is good because it:

- reflects the most important task of the process fragment
- reflects the main outcome of the process fragment
- provides a good overview of the process fragment

Furthermore, we consider the following criteria for rating a label:

- Relevance - How applicable is the label to the presented process fragment (Precision)?
- Informativeness - Is the label a sufficient representative of the presented process fragment (Recall)?
- Fluency - Is the label easy to read and understand?

* 1. Please kindly let us know the level of prior knowledge you have in the field of Process Mining: (Select one option)

- Low
- Intermediate
- High

* 2. Assigned batch number: (Select one option)

- 1
- 2
- 3
- 4
- 5

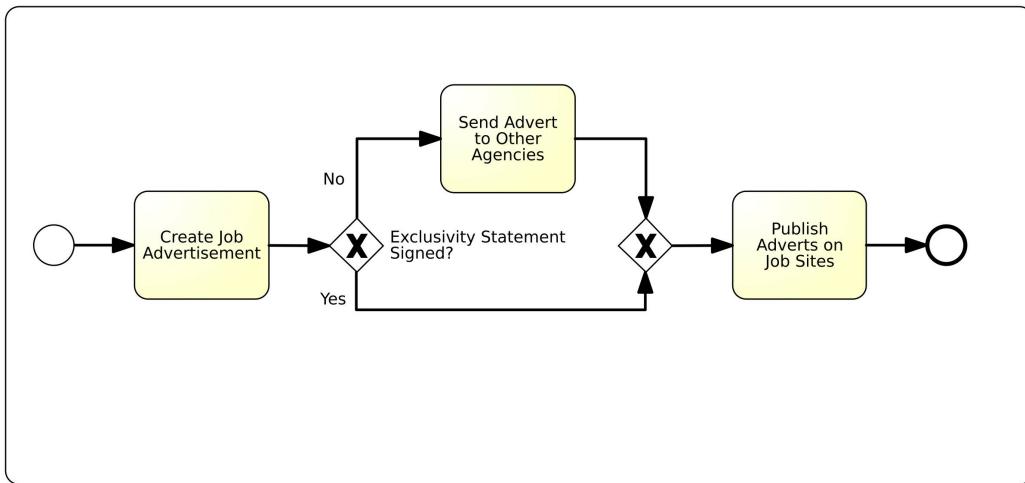
NOTE : IF ANSWER TO Q2 is

- 1** Go to Page No. 2
- 2** Go to Page No. 13
- 3** Go to Page No. 24
- 4** Go to Page No. 35
- 5** Go to Page No. 46

If Did Not Answer Then Go to Page No. 2

Case 1. Extracted labels**create job advertisement, send advert to other agencies, publish adverts on job sites**

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.

*** 3. Choose the most suitable generated label for the process presented: (Select one option)**

- create job advertisement
- create and post advertisement
- create and publish job advert
- publish advertisement
- none of the above is relevant (if selected, please skip all questions below and go to next page)

4. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

5. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#4 is Most important task OR Main outcome OR Provides a good overview

Manually created label

publish job advertisement

NOTE : Answer the below question only if answer to Q#4 is Most important task OR Main outcome OR Provides a good overview

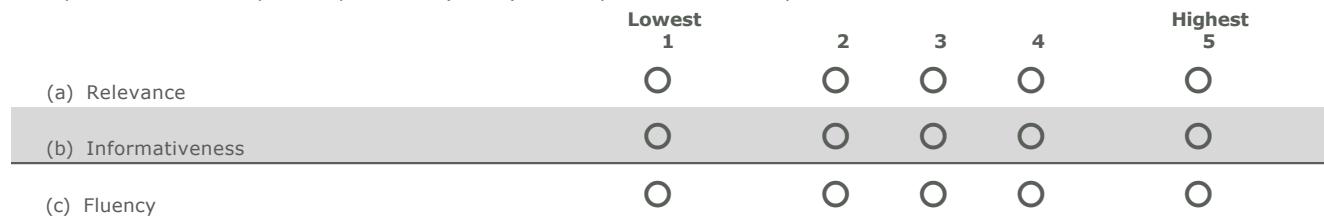
* 6. What do you think about the quality of the selected generated label in comparison to the manually created label? (Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#6 is Better than the manually created label OR Equally good OR Worse

7. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?



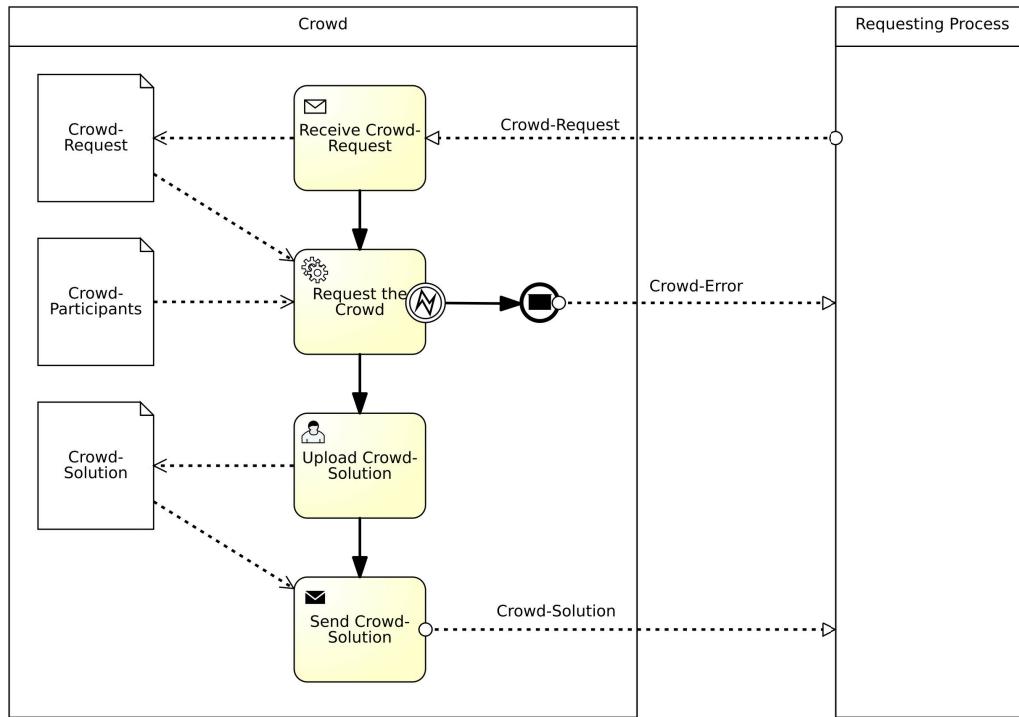
NOTE : Answer the below question only if answer to Q#6 is Better than the manually created label OR Equally good OR Worse

8. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 2. Extracted labels

receive crowd-request, request the crowd, upload crowd-solution, send crowd-solution

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 9. Choose the most suitable generated label for the process presented: (Select one option)

- request crowd-based solutions
- upload crowd-request
- handle crowd request
- operate problem solving process
- none of the above is relevant (if selected, please skip all questions below and go to next page)

10. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

11. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#10 is Most important task OR Main outcome OR Provides a good overview

Manually created label

execute crowdsourcing

NOTE : Answer the below question only if answer to Q#10 is Most important task OR Main outcome OR Provides a good overview

* **12. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#12 is Better than the manually created label OR Equally good OR Worse

13. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

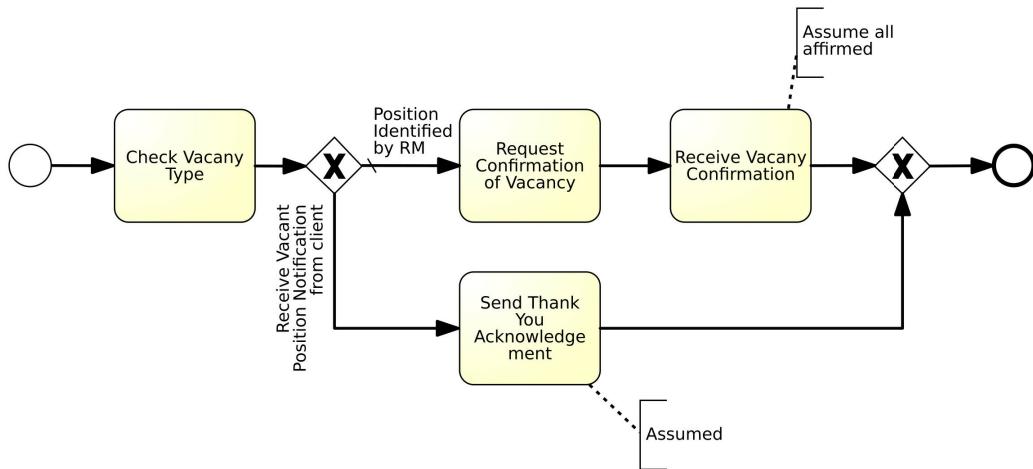
NOTE : Answer the below question only if answer to Q#12 is Better than the manually created label OR Equally good OR Worse

14. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 3. Extracted labels

check vacany type, send thank you acknowledgement, request confirmation of vacancy, receive vacany confirmation

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 15. Choose the most suitable generated label for the process presented: (Select one option)

- confirm vacany
- handle vacany vacancy
- registration for vacany
- execute vacany notification
- none of the above is relevant (if selected, please skip all questions below and go to next page)

16. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

17. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#16 is Most important task OR Main outcome OR Provides a good overview

Manually created label

identify vacancy

NOTE : Answer the below question only if answer to Q#16 is Most important task OR Main outcome OR Provides a good overview

* 18. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#18 is Better than the manually created label OR Equally good OR Worse

19. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

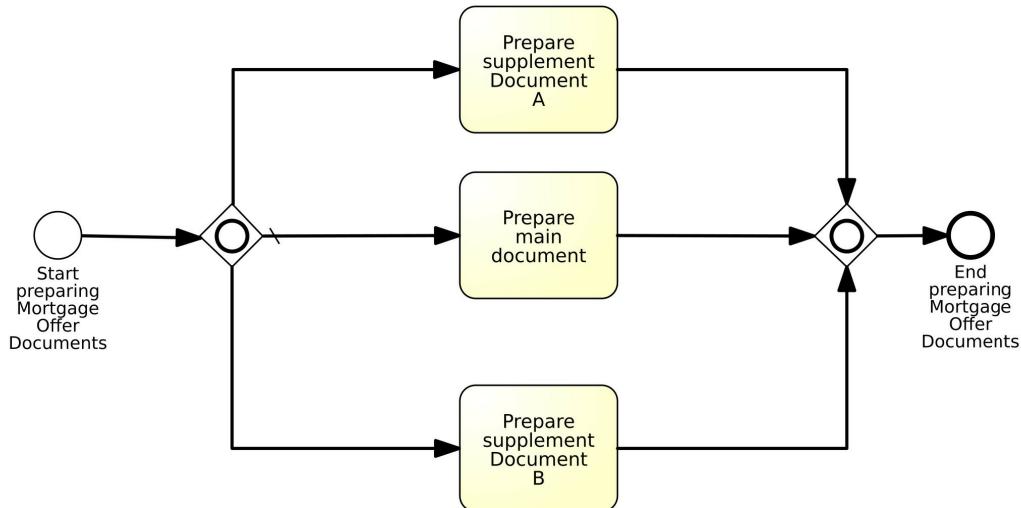
NOTE : Answer the below question only if answer to Q#18 is Better than the manually created label OR Equally good OR Worse

20. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 4. Extracted labels

start preparing mortgage offer documents, prepare supplement document a, prepare main document, prepare supplement document b, end preparing mortgage offer documents

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 21. Choose the most suitable generated label for the process presented: (Select one option)

- prepare mortgage offer documents
- prepare mortgage offer
- prepare mortgage application
- supplement mortgage configuration
- none of the above is relevant (if selected, please skip all questions below and go to next page)

22. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

23. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#22 is Most important task OR Main outcome OR Provides a good overview

Manually created label

prepare mortgage offer documents

NOTE : Answer the below question only if answer to Q#22 is Most important task OR Main outcome OR Provides a good overview

* 24. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#24 is Better than the manually created label OR Equally good OR Worse

25. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

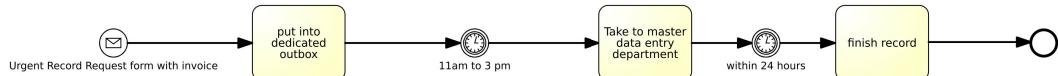
NOTE : Answer the below question only if answer to Q#24 is Better than the manually created label OR Equally good OR Worse

26. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 5. Extracted labels

urgent record request form with invoice, put into dedicated outbox, 11am to 3 pm, take to master data entry department, within 24 hours, finish record

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 27. Choose the most suitable generated label for the process presented: (Select one option)

- complete record request
- total record demand
- full record request
- none of the above is relevant (if selected, please skip all questions below and go to next page)

28. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

29. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#28 is Most important task OR Main outcome OR Provides a good overview

Manually created label

handle urgent record request

NOTE : Answer the below question only if answer to Q#28 is Most important task OR Main outcome OR Provides a good overview

* 30. What do you think about the quality of the selected generated label in comparison to the manually created label? (Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#30 is Better than the manually created label OR Equally good OR Worse

31. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Answer the below question only if answer to Q#30 is Better than the manually created label OR Equally good OR Worse

32. Do you have an alternative labeling suggestion for the model fragment? (optional)

33. Would you like to continue helping us? (Select one option)

- Yes, please give me other 5 questions
- Nope, that's enough for today

NOTE : IF ANSWER TO Q33 is

Yes, please give me other 5 questions Go to Page No. 8

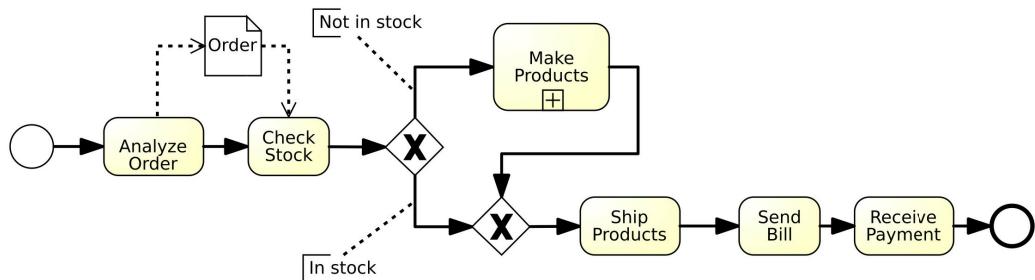
Nope, that's enough for today Stop, you have finished the survey

If Did Not Answer Then Go to Page No. 8

Case 6. Extracted labels

analyze order, check stock, make products, ship products, send bill, receive payment

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 34. Choose the most suitable generated label for the process presented: (Select one option)

- handle order
- perform order
- verify stock and prepare shipment
- handle purchase order
- none of the above is relevant (if selected, please skip all questions below and go to next page)

35. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

36. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#35 is Most important task OR Main outcome OR Provides a good overview

Manually created label

fulfill order

NOTE : Answer the below question only if answer to Q#35 is Most important task OR Main outcome OR Provides a good overview

*** 37. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#37 is Better than the manually created label OR Equally good OR Worse

38. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

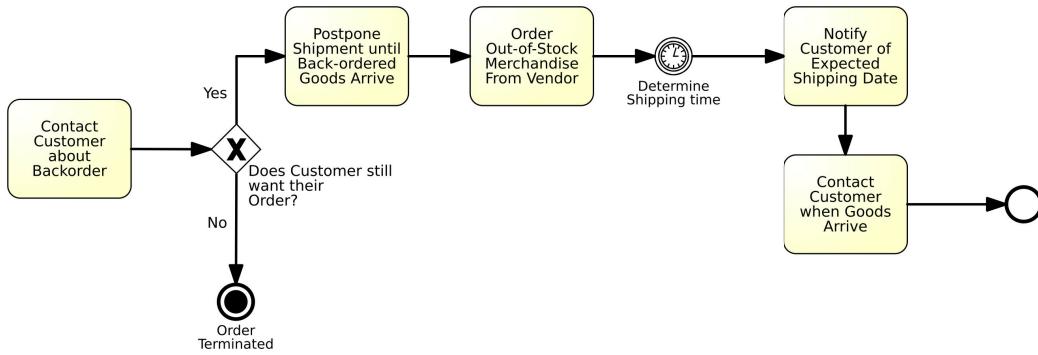
NOTE : Answer the below question only if answer to Q#37 is Better than the manually created label OR Equally good OR Worse

39. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 7. Extracted labels

contact customer about backorder, postpone shipment until back-ordered goods arrive, order out-of-stock merchandise from vendor, determine shipping time, notify customer of expected shipping date, contact customer when goods arrive, order terminated

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 40. Choose the most suitable generated label for the process presented: (Select one option)

- handle backorder
- handle order when goods arrive
- handle order
- handle order when product out of stock
- none of the above is relevant (if selected, please skip all questions below and go to next page)

41. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

42. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#41 is Most important task OR Main outcome OR Provides a good overview

Manually created label

contact customer about backorder

NOTE : Answer the below question only if answer to Q#41 is Most important task OR Main outcome OR Provides a good overview

* 43. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#43 is Better than the manually created label OR Equally good OR Worse

44. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

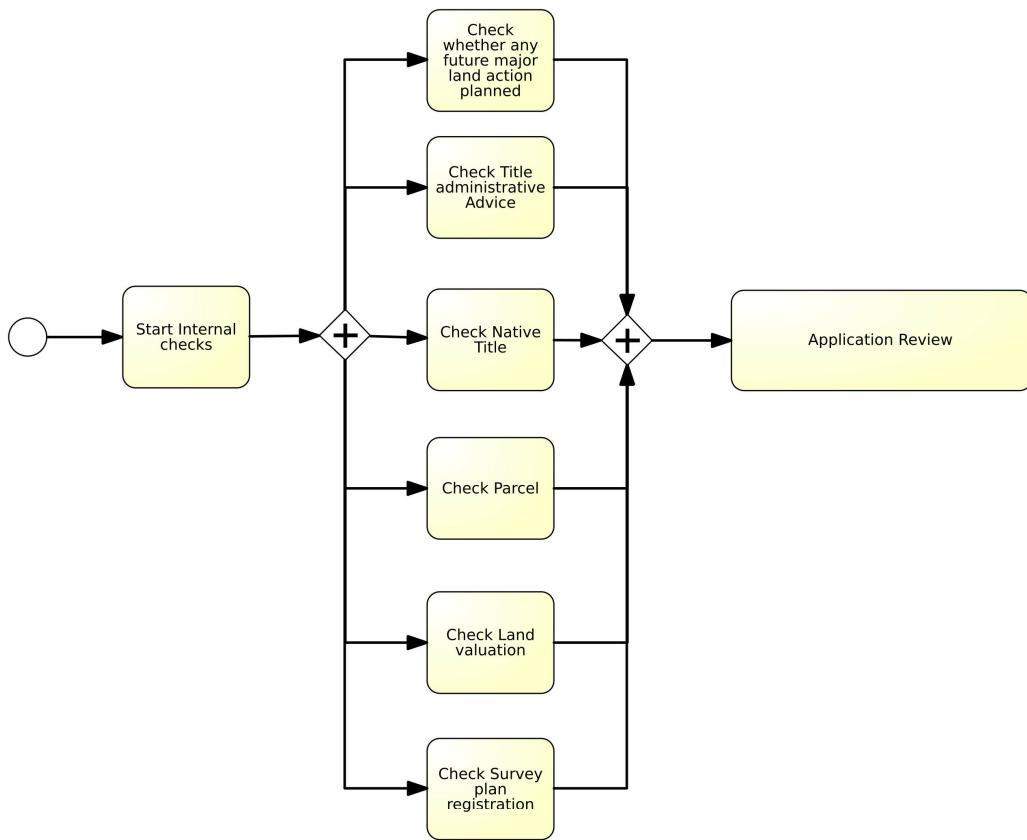
NOTE : Answer the below question only if answer to Q#43 is Better than the manually created label OR Equally good OR Worse

45. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 8. Extracted labels

start internal checks, check whether any future major land action planned, check survey plan registration, check title administrative advice, check native title, check parcel, check land valuation, application review

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 46. Choose the most suitable generated label for the process presented: (Select one option)

- examine tenure lodged application
- registration for land ownership
- none of the above is relevant (if selected, please skip all questions below and go to next page)

47. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

48. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#47 is Most important task OR Main outcome OR Provides a good overview

Manually created label

conduct internal check

NOTE : Answer the below question only if answer to Q#47 is Most important task OR Main outcome OR Provides a good overview

*** 49. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#49 is Better than the manually created label OR Equally good OR Worse

50. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

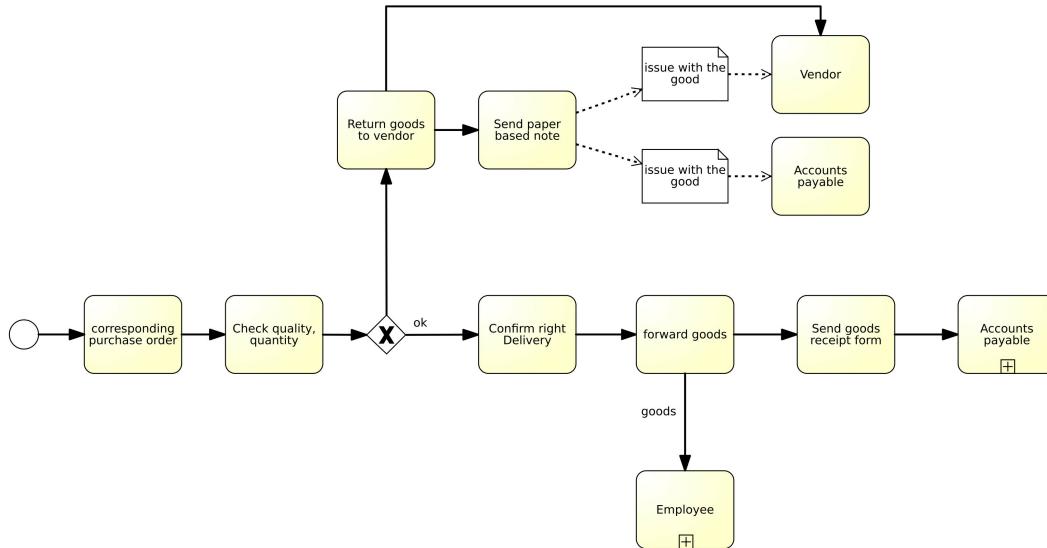
NOTE : Answer the below question only if answer to Q#49 is Better than the manually created label OR Equally good OR Worse

51. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 9. Extracted labels

corresponding purchase order, check quality, quantity, return goods to vendor, send paper based note, vendor, confirm right delivery, forward goods, send goods receipt form, accounts payable, employee

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 52. Choose the most suitable generated label for the process presented: (Select one option)

- prepare purchase order
- fulfill purchase order
- perform quality inspection
- verify purchase order and prepare shipment
- none of the above is relevant (if selected, please skip all questions below and go to next page)

53. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

54. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#53 is Most important task OR Main outcome OR Provides a good overview

Manually created label

manage goods receipt

NOTE : Answer the below question only if answer to Q#53 is Most important task OR Main outcome OR Provides a good overview

* 55. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#53 is Better than the manually created label OR Equally good OR Worse

56. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

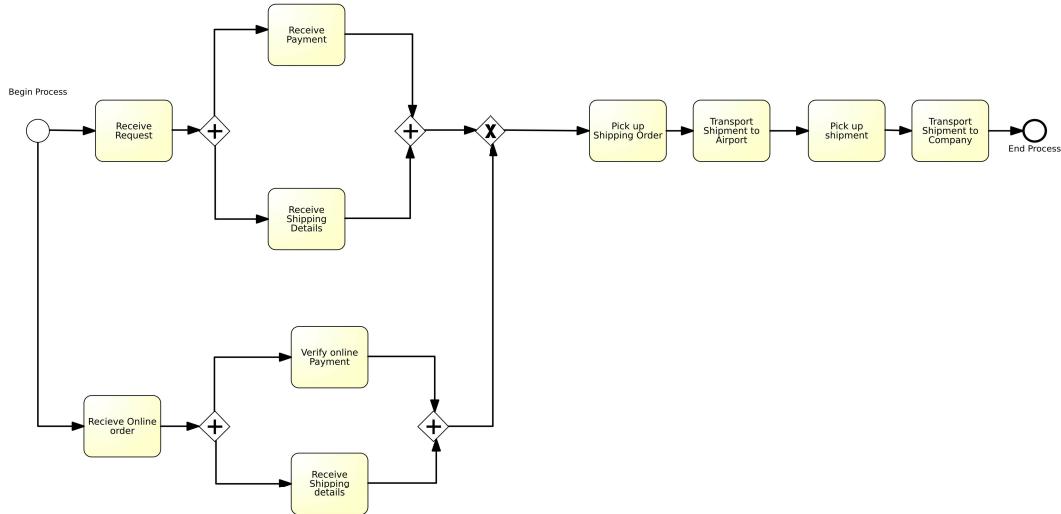
NOTE : Answer the below question only if answer to Q#53 is Better than the manually created label OR Equally good OR Worse

57. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 10. Extracted labels

begin process, receive online order, verify online payment, receive shipping details, receive request, receive payment, receive shipping details, pick up shipping order, transport shipment to airport, pick up shipment, transport shipment to company, end process

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 58. Choose the most suitable generated label for the process presented: (Select one option)

- process shipping order
- process online transport order request
- process shipping order request
- fulfill order
- none of the above is relevant (if selected, please skip all questions below and go to next page)

59. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

60. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#59 is Most important task OR Main outcome OR Provides a good overview

Manually created label

handle order request to delivery

NOTE : Answer the below question only if answer to Q#59 is Most important task OR Main outcome OR Provides a good overview

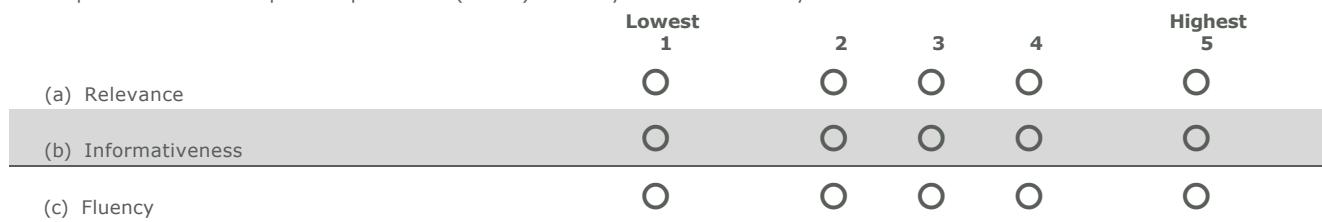
*** 61. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#61 is Better than the manually created label OR Equally good OR Worse

62. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?



NOTE : Answer the below question only if answer to Q#61 is Better than the manually created label OR Equally good OR Worse

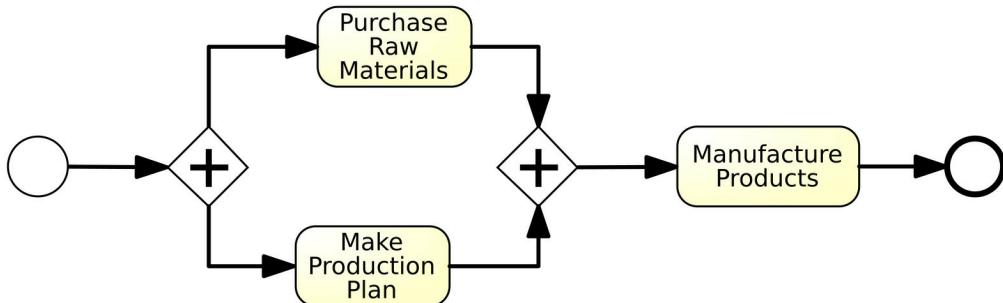
63. Do you have an alternative labeling suggestion for the model fragment? (optional)

NOTE :Stop, you have finished the survey

Case 1. Extracted labels

purchase raw materials, make production plan, manufacture products

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 64. Choose the most suitable generated label for the process presented: (Select one option)

- manufacture products
- plan production
- manufacture of customized products
- manage order production
- none of the above is relevant (if selected, please skip all questions below and go to next page)

65. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

66. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#65 is Most important task OR Main outcome OR Provides a good overview

Manually created label

manufacture products

NOTE : Answer the below question only if answer to Q#65 is Most important task OR Main outcome OR Provides a good overview

* 67. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#67 is Better than the manually created label OR Equally good OR Worse

68. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

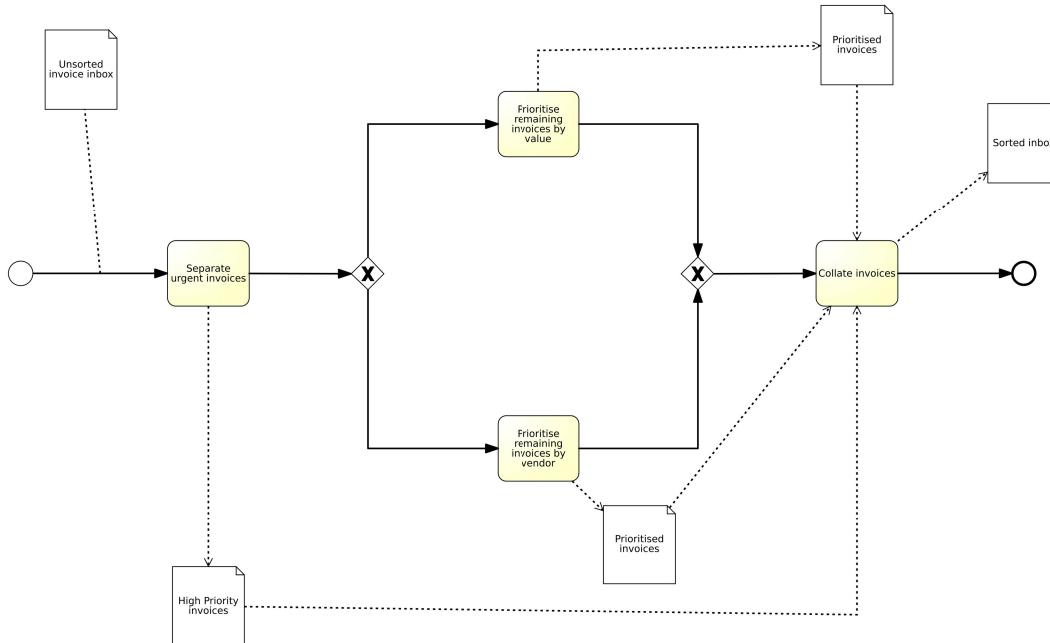
NOTE : Answer the below question only if answer to Q#67 is Better than the manually created label OR Equally good OR Worse

69. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 2. Extracted labels

separate urgent invoices, prioritise remaining invoices by value, prioritise remaining invoices by vendor, collate invoices

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 70. Choose the most suitable generated label for the process presented: (Select one option)

- sort urgent invoices priority
- complete invoice priority
- manage urgent invoices
- sort invoice priority
- none of the above is relevant (if selected, please skip all questions below and go to next page)

71. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

72. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#71 is Most important task OR Main outcome OR Provides a good overview

Manually created label

sort invoice priority

NOTE : Answer the below question only if answer to Q#71 is Most important task OR Main outcome OR Provides a good overview

* **73. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#73 is Better than the manually created label OR Equally good OR Worse

74. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

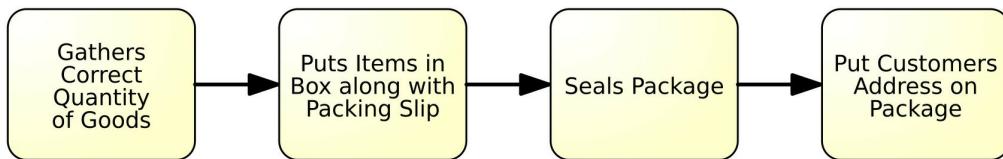
NOTE : Answer the below question only if answer to Q#73 is Better than the manually created label OR Equally good OR Worse

75. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 3. Extracted labels

gathers correct quantity of goods, puts items in box along with packing slip, seals package, put customers address on package

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 76. Choose the most suitable generated label for the process presented: (Select one option)

- assemble correct quantity of goods
- prepare goods for pick up
- execute the inspection of the goods configuration
- verify stock and prepare shipment
- none of the above is relevant (if selected, please skip all questions below and go to next page)

77. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

78. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#77 is Most important task OR Main outcome OR Provides a good overview

Manually created label

prepare shipment

NOTE : Answer the below question only if answer to Q#77 is Most important task OR Main outcome OR Provides a good overview

*** 79. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#79 is Better than the manually created label OR Equally good OR Worse

80. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

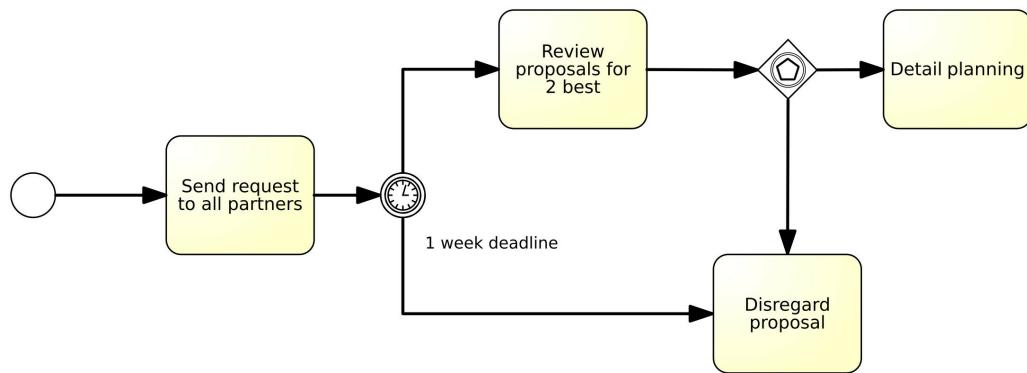
NOTE : Answer the below question only if answer to Q#79 is Better than the manually created label OR Equally good OR Worse

81. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 4. Extracted labels

send request to all partners, 1 week deadline, review proposals for 2 best, disregard proposal, detail planning

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 82. Choose the most suitable generated label for the process presented: (Select one option)

- prepare proposal
- plan proposal
- plan budget
- manage proposal
- none of the above is relevant (if selected, please skip all questions below and go to next page)

83. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

84. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#83 is Most important task OR Main outcome OR Provides a good overview

Manually created label

initiate project

NOTE : Answer the below question only if answer to Q#83 is Most important task OR Main outcome OR Provides a good overview

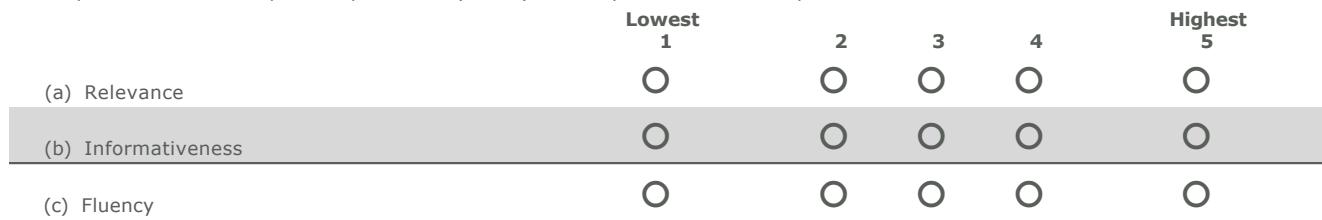
* 85. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#83 is Better than the manually created label OR Equally good OR Worse

86. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?



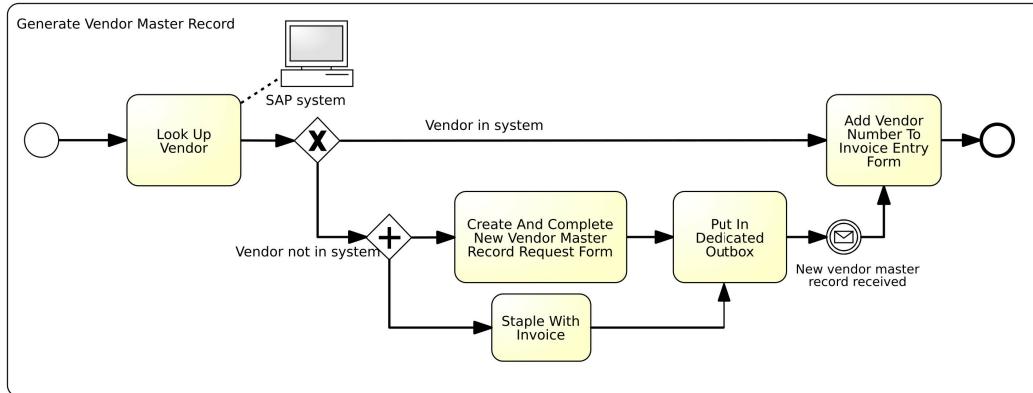
NOTE : Answer the below question only if answer to Q#85 is Better than the manually created label OR Equally good OR Worse

87. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 5. Extracted labels

look up vendor, create and complete new vendor master record request form, staple with invoice, put in dedicated outbox, new vendor master record received, add vendor number to invoice entry form

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 88. Choose the most suitable generated label for the process presented: (Select one option)

- add vendor number
- add new vendor number
- add sap vendor number
- registration for vendor master record
- none of the above is relevant (if selected, please skip all questions below and go to next page)

89. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

90. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#89 is Most important task OR Main outcome OR Provides a good overview

Manually created label

generate vendor master record

NOTE : Answer the below question only if answer to Q#89 is Most important task OR Main outcome OR Provides a good overview

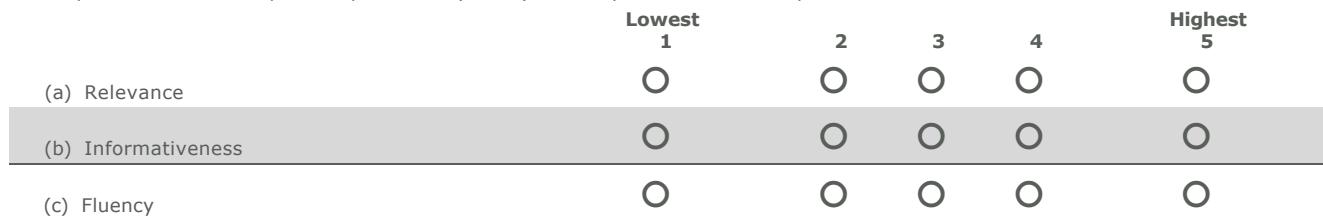
* 91. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#91 is Better than the manually created label OR Equally good OR Worse

92. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?



NOTE : Answer the below question only if answer to Q#91 is Better than the manually created label OR Equally good OR Worse

93. Do you have an alternative labeling suggestion for the model fragment? (optional)

94. Would you like to continue helping us? (Select one option)

- Yes, please give me other 5 questions
- Nope, that's enough for today

NOTE : IF ANSWER TO Q94 is

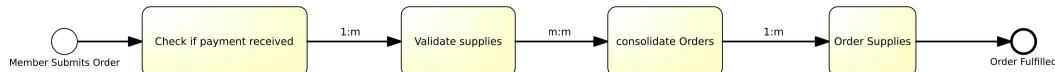
Yes, please give me other 5 questions Go to Page No. 19

Nope, that's enough for today Stop, you have finished the survey

If Did Not Answer Then Go to Page No. 19

Case 6. Extracted labels**member submits order, check if payment received, validate supplies, consolidate orders, order supplies, order fulfilled**

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.

*** 95. Choose the most suitable generated label for the process presented: (Select one option)**

- fulfill member order
- manage member order
- manage membership configuration
- none of the above is relevant (if selected, please skip all questions below and go to next page)

96. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

97. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#96 is Most important task OR Main outcome OR Provides a good overview

Manually created label**manage member order**

NOTE : Answer the below question only if answer to Q#96 is Most important task OR Main outcome OR Provides a good overview

*** 98. What do you think about the quality of the selected generated label in comparison to the manually created label? (Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#98 is Better than the manually created label OR Equally good OR Worse

99. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

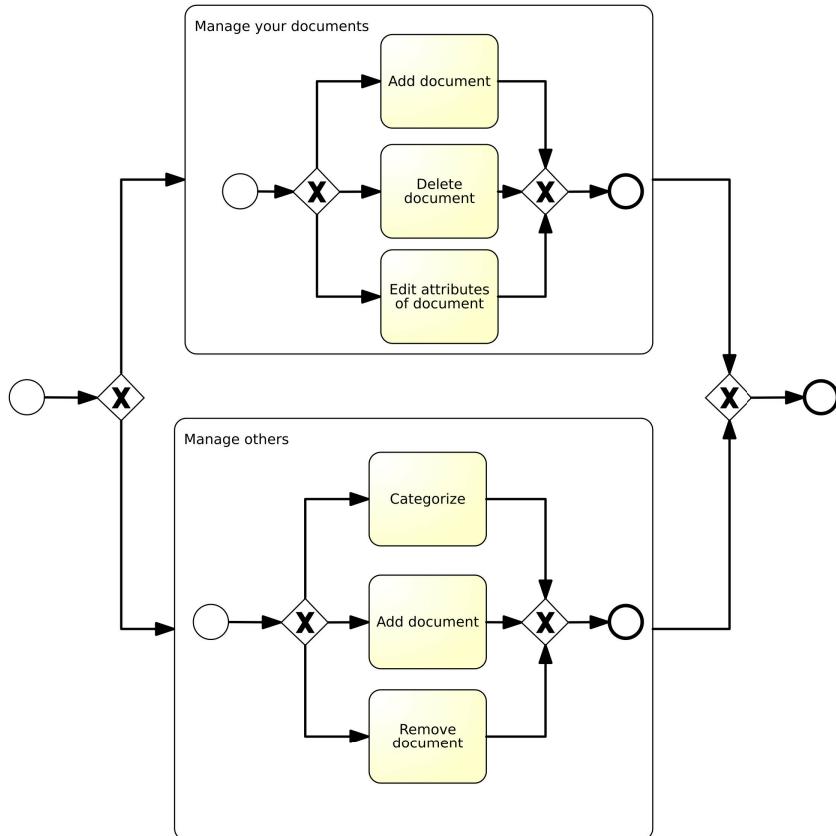
NOTE : Answer the below question only if answer to Q#98 is Better than the manually created label OR Equally good OR Worse

100. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 7. Extracted labels

manage your documents, add document, delete document, edit attributes of document, manage others, categorize, add document, remove document

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 101. Choose the most suitable generated label for the process presented: (Select one option)

- manage documents
- manage document
- manage document configuration
- none of the above is relevant (if selected, please skip all questions below and go to next page)

102. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

103. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#102 is Most important task OR Main outcome OR Provides a good overview

Manually created label

manage documents

NOTE : Answer the below question only if answer to Q#102 is Most important task OR Main outcome OR Provides a good overview

* **104. What do you think about the quality of the selected generated label in comparison to the manually created label? (Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#104 is Better than the manually created label OR Equally good OR Worse

105. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

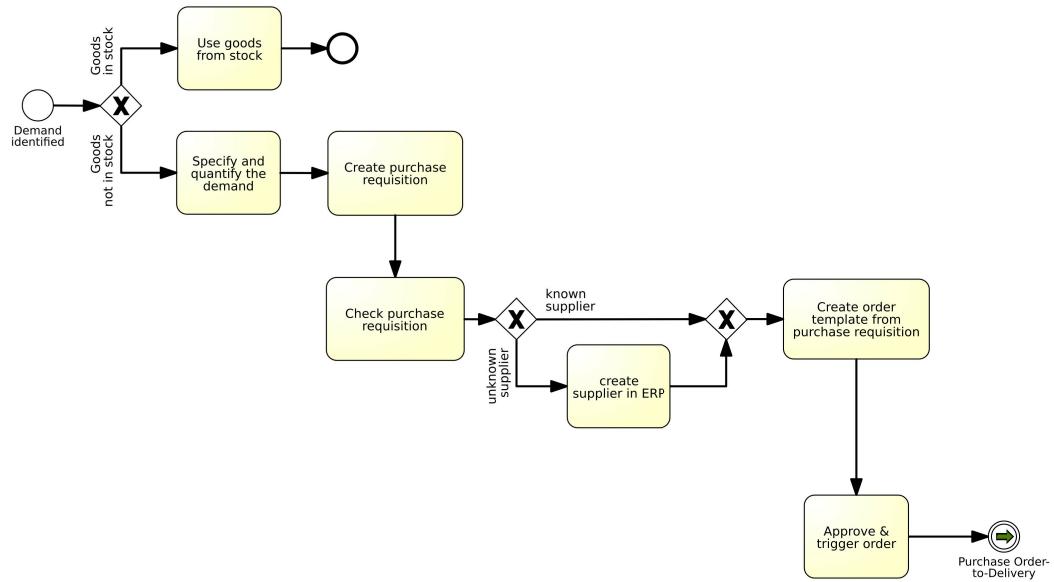
NOTE : Answer the below question only if answer to Q#104 is Better than the manually created label OR Equally good OR Worse

106. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 8. Extracted labels

demand identified, use goods from stock, specify and quantify the demand, create purchase requisition, check purchase requisition, create supplier in er, create order template from purchase requisition, approve & trigger order, purchase order- to-deliver

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 107. Choose the most suitable generated label for the process presented: (Select one option)

- create purchase requisition
- create purchase order
- manage the purchase process
- verify stock and determine purchase order
- none of the above is relevant (if selected, please skip all questions below and go to next page)

108. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

109. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#108 is Most important task OR Main outcome OR Provides a good overview

Manually created label

create purchase requisition to purchase order

NOTE : Answer the below question only if answer to Q#108 is Most important task OR Main outcome OR Provides a good overview

* **110. What do you think about the quality of the selected generated label in comparison to the manually created label? (Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#110 is Better than the manually created label OR Equally good OR Worse

111. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

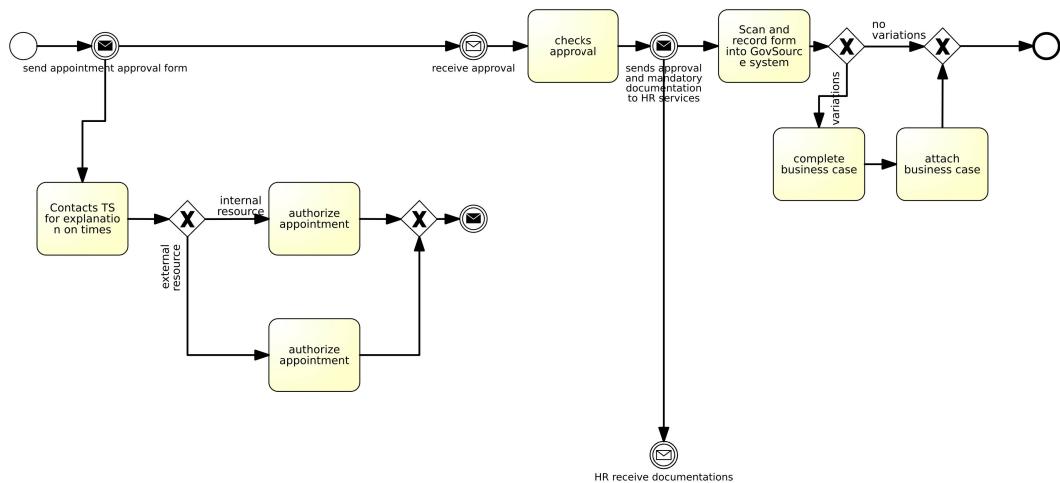
NOTE : Answer the below question only if answer to Q#110 is Better than the manually created label OR Equally good OR Worse

112. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 9. Extracted labels

send appointment approval form, receive approval, checks approval, sends approval and mandatory documentation to hr services, scan and record form into govsource system, complete business case, attach business case, hr receive documentations, contacts ts for explanation on times, authorize appointment, authorize appointment

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 113. Choose the most suitable generated label for the process presented: (Select one option)

- process appointment approval
- process employee requisition
- process for appointments
- complete business case
- none of the above is relevant (if selected, please skip all questions below and go to next page)

114. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

115. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#114 is Most important task OR Main outcome OR Provides a good overview

Manually created label

check appointment approval

NOTE : Answer the below question only if answer to Q#114 is Most important task OR Main outcome OR Provides a good overview

* 116. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#116 is Better than the manually created label OR Equally good OR Worse

117. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

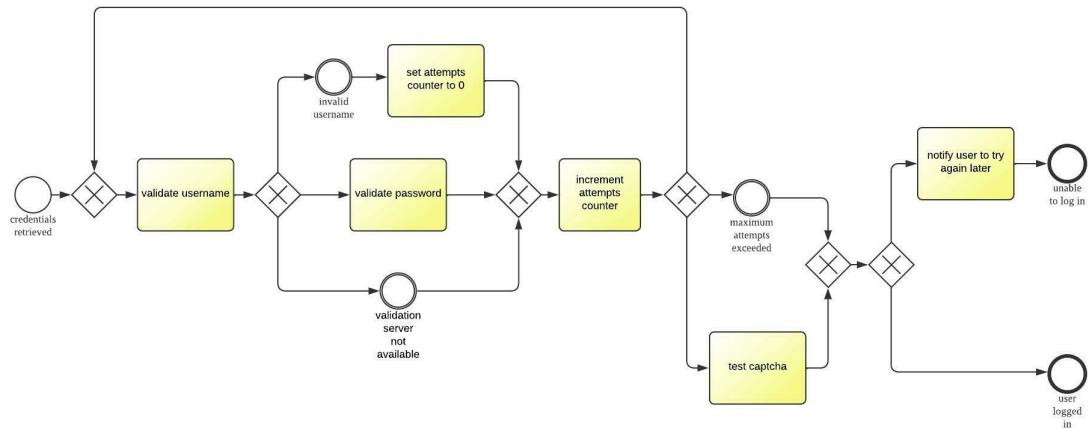
NOTE : Answer the below question only if answer to Q#116 is Better than the manually created label OR Equally good OR Worse

118. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 10. Extracted labels

credentials retrieved, validate username, invalid username, set attempts counter to 0, validate password, validation server not available, increment attempts counter, maximum attempts exceeded, test captcha, notify user to try again later, unable to log in, user logged in

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 119. Choose the most suitable generated label for the process presented: (Select one option)

- log in
- handle user log in
- execute log in
- log in user account
- none of the above is relevant (if selected, please skip all questions below and go to next page)

120. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

121. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

Lowest 1	2	3	4	Highest 5
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(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#120 is Most important task OR Main outcome OR Provides a good overview

Manually created label

log in

NOTE : Answer the below question only if answer to Q#120 is Most important task OR Main outcome OR Provides a good overview

*** 122. What do you think about the quality of the selected generated label in comparison to the manually created label? (Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#122 is Better than the manually created label OR Equally good OR Worse

123. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Answer the below question only if answer to Q#122 is Better than the manually created label OR Equally good OR Worse

124. Do you have an alternative labeling suggestion for the model fragment? (optional)

NOTE : Stop, you have finished the survey

Case 1. Extracted labels

register at online shop, select atricle, pay

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 125. Choose the most suitable generated label for the process presented: (Select one option)

- shop at atricle
- register online shop
- shop online
- register account
- none of the above is relevant (if selected, please skip all questions below and go to next page)

126. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

127. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#126 is Most important task OR Main outcome OR Provides a good overview

Manually created label

shop online

NOTE : Answer the below question only if answer to Q#126 is Most important task OR Main outcome OR Provides a good overview

*** 128. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#128 is Better than the manually created label OR Equally good OR Worse

129. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

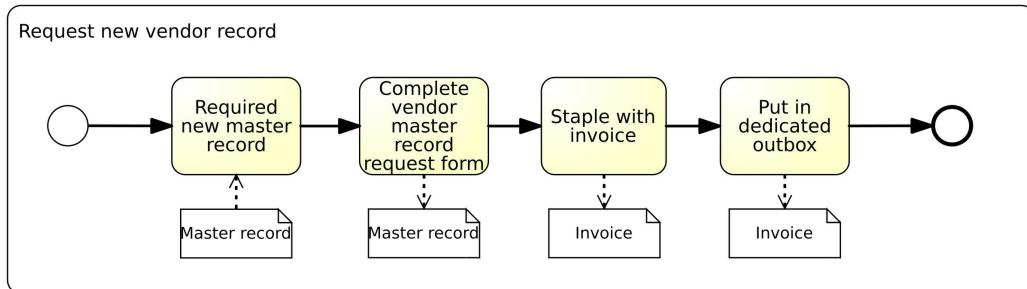
	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Answer the below question only if answer to Q#128 is Better than the manually created label OR Equally good OR Worse

130. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 2. Extracted labels**required new master record, complete vendor master record request form, staple with invoice, put in dedicated outbox**

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.

*** 131. Choose the most suitable generated label for the process presented: (Select one option)**

- request vendor master record
- complete vendor master record request
- add sap vendor master record
- none of the above is relevant (if selected, please skip all questions below and go to next page)

132. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

133. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#132 is Most important task OR Main outcome OR Provides a good overview

Manually created label

request vendor master record

NOTE : Answer the below question only if answer to Q#132 is Most important task OR Main outcome OR Provides a good overview

*** 134. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#134 is Better than the manually created label OR Equally good OR Worse

135. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

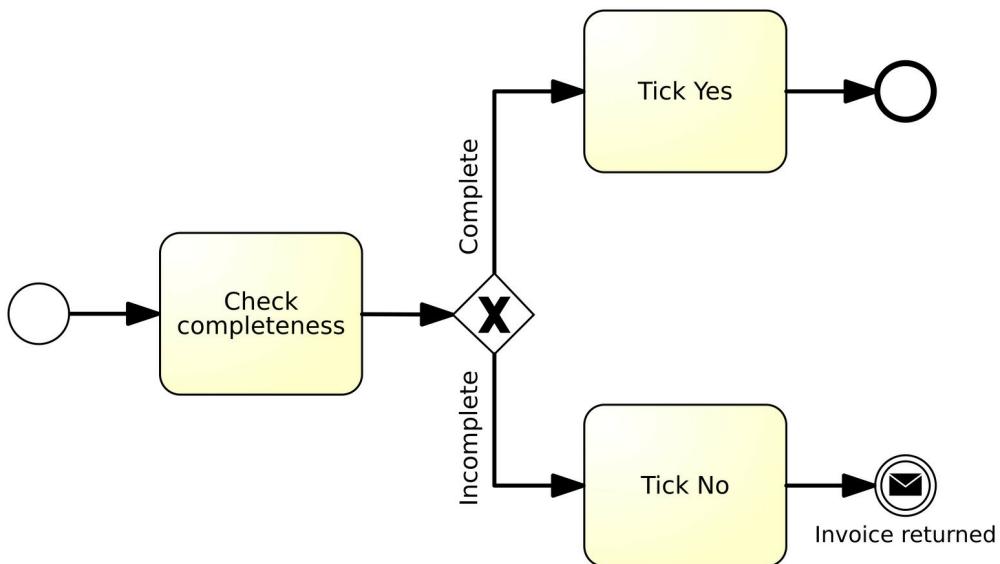
NOTE : Answer the below question only if answer to Q#134 is Better than the manually created label OR Equally good OR Worse

136. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 3. Extracted labels

check completeness, tick yes, tick no, invoice returned

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 137. Choose the most suitable generated label for the process presented: (Select one option)

- check completeness
- check invoice completeness
- complete invoice configuration
- complete invoice entry form
- none of the above is relevant (if selected, please skip all questions below and go to next page)

138. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

139. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#138 is Most important task OR Main outcome OR Provides a good overview

Manually created label

check completeness

NOTE : Answer the below question only if answer to Q#138 is Most important task OR Main outcome OR Provides a good overview

* 140. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#140 is Better than the manually created label OR Equally good OR Worse

141. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

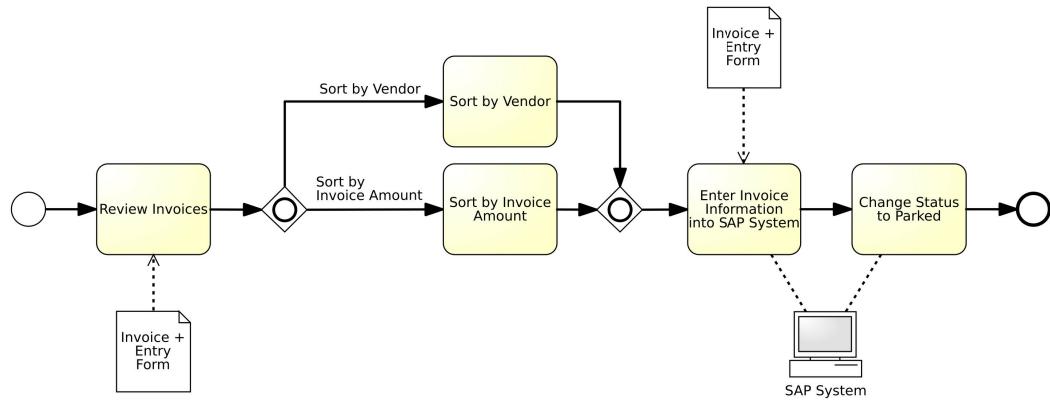
NOTE : Answer the below question only if answer to Q#140 is Better than the manually created label OR Equally good OR Worse

142. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 4. Extracted labels

review invoices, sort by vendor, sort by invoice amount, enter invoice information into sap system, change status to parked

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 143. Choose the most suitable generated label for the process presented: (Select one option)

- sort invoices and change status
- sort incoming invoices
- sort invoices and attach entry forms
- sort invoices
- none of the above is relevant (if selected, please skip all questions below and go to next page)

144. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

145. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#144 is Most important task OR Main outcome OR Provides a good overview

Manually created label

enter invoice information into sap

NOTE : Answer the below question only if answer to Q#144 is Most important task OR Main outcome OR Provides a good overview

* 146. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#146 is Better than the manually created label OR Equally good OR Worse

147. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

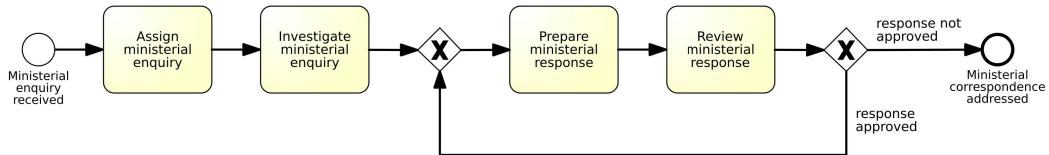
NOTE : Answer the below question only if answer to Q#146 is Better than the manually created label OR Equally good OR Worse

148. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 5. Extracted labels

ministerial enquiry received, assign ministerial enquiry, investigate ministerial enquiry, prepare ministerial response, review ministerial response, ministerial correspondence addressed

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 149. Choose the most suitable generated label for the process presented: (Select one option)

- review ministerial response
- handle ministerial enquiry
- handle inquiry
- address ministerial inquiry
- none of the above is relevant (if selected, please skip all questions below and go to next page)

150. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

151. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#150 is Most important task OR Main outcome OR Provides a good overview

Manually created label

address ministerial enquiry

NOTE : Answer the below question only if answer to Q#150 is Most important task OR Main outcome OR Provides a good overview

*** 152. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#152 is Better than the manually created label OR Equally good OR Worse

153. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Answer the below question only if answer to Q#152 is Better than the manually created label OR Equally good OR Worse

154. Do you have an alternative labeling suggestion for the model fragment? (optional)

155. Would you like to continue helping us? (Select one option)

- Yes, please give me other 5 questions
- Nope, that's enough for today

NOTE : IF ANSWER TO Q155 is

Yes, please give me other 5 questions Go to Page No. 30

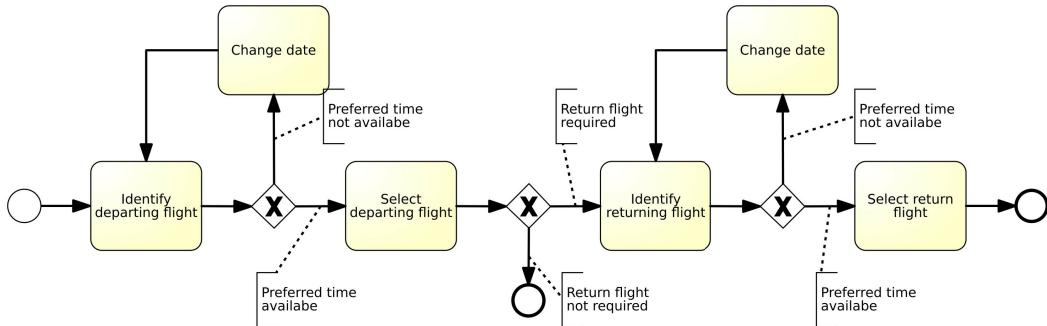
Nope, that's enough for today Stop, you have finished the survey

If Did Not Answer Then Go to Page No. 30

Case 6. Extracted labels

identify departing flight, change date, select departing flight, identify returning flight, change date, select return flight

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 156. Choose the most suitable generated label for the process presented: (Select one option)

- identify flight
- search flights
- search for aircraft
- book flight
- none of the above is relevant (if selected, please skip all questions below and go to next page)

157. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

158. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#157 is Most important task OR Main outcome OR Provides a good overview

Manually created label

select flights

NOTE : Answer the below question only if answer to Q#157 is Most important task OR Main outcome OR Provides a good overview

*** 159. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#159 is Better than the manually created label OR Equally good OR Worse

160. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

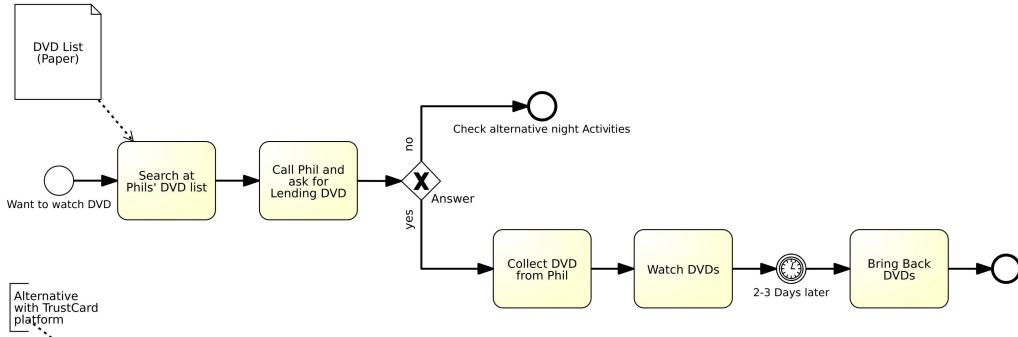
NOTE : Answer the below question only if answer to Q#159 is Better than the manually created label OR Equally good OR Worse

161. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 7. Extracted labels

want to watch dvd, search at phil's dvd list, call phil and ask for lending dvd, check alternative night activities, collect dvd from phil, watch dvds, 2-3 days later, bring back dvds

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 162. Choose the most suitable generated label for the process presented: (Select one option)

- conduct dvd lending with phil
- perform alternative dvd lending with phil
- conduct dvd lending
- handle dvd lending
- none of the above is relevant (if selected, please skip all questions below and go to next page)

163. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

164. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#163 is Most important task OR Main outcome OR Provides a good overview

Manually created label

conduct personal dvd lending

NOTE : Answer the below question only if answer to Q#163 is Most important task OR Main outcome OR Provides a good overview

*** 165. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#165 is Better than the manually created label OR Equally good OR Worse

166. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

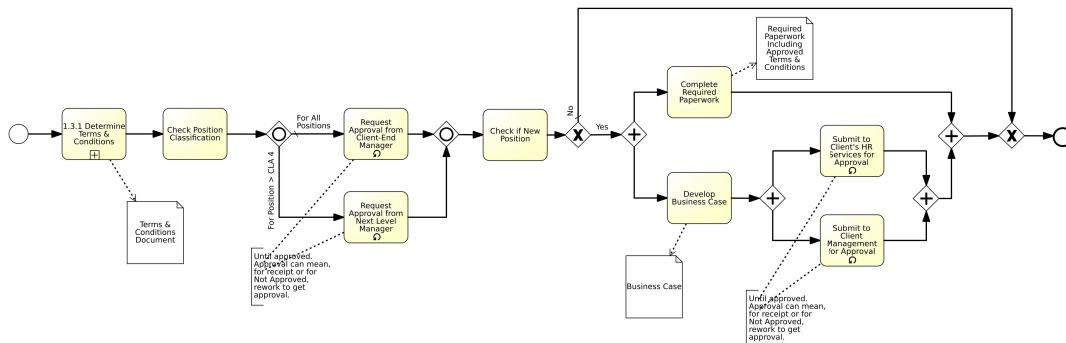
NOTE : Answer the below question only if answer to Q#165 is Better than the manually created label OR Equally good OR Worse

167. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 8. Extracted labels

1.3.1 determine terms & conditions, check position classification, request approval from next level manager, request approval from client-end manager, check if new position, complete required paperwork, develop business case, submit to client's hr services for approval, submit to client management for approval

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 168. Choose the most suitable generated label for the process presented:
(Select one option)

- prepare position allocation
- prepare staff requisition
- implementation of the recruitment process
- execute position creation process
- none of the above is relevant (if selected, please skip all questions below and go to next page)

169. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

170. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#169 is Most important task OR Main outcome OR Provides a good overview

Manually created label

review terms and conditions

NOTE : Answer the below question only if answer to Q#169 is Most important task OR Main outcome OR Provides a good overview

* **171. What do you think about the quality of the selected generated label in comparison to the manually created label?**
(Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#171 is Better than the manually created label OR Equally good OR Worse

172. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

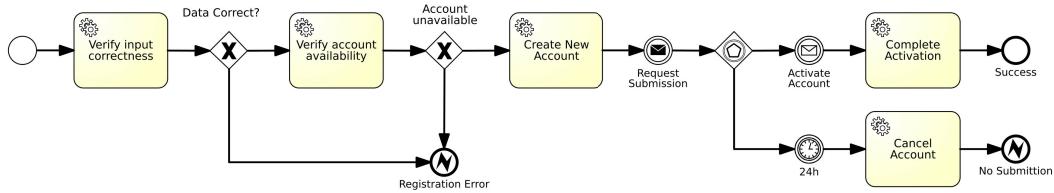
NOTE : Answer the below question only if answer to Q#171 is Better than the manually created label OR Equally good OR Worse

173. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 9. Extracted labels

verify input correctness, verify account availability, create new account, request submission, 24h, cancel account, no submittion, activate account, complete activation, success, registration error

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 174. Choose the most suitable generated label for the process presented: (Select one option)

- activate account
- register account
- sign up account
- registration for account
- none of the above is relevant (if selected, please skip all questions below and go to next page)

175. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

176. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#175 is Most important task OR Main outcome OR Provides a good overview

Manually created label

register account

NOTE : Answer the below question only if answer to Q#175 is Most important task OR Main outcome OR Provides a good overview

* 177. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#177 is Better than the manually created label OR Equally good OR Worse

178. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

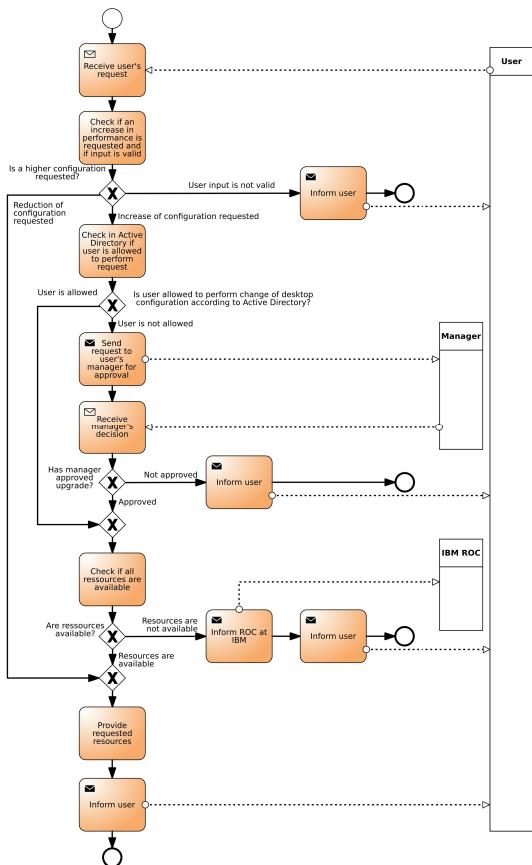
NOTE : Answer the below question only if answer to Q#177 is Better than the manually created label OR Equally good OR Worse

179. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 10. Extracted labels

receive user's request, check if an increase in performance is requested and if input is valid, check in active directory if user is allowed to perform request, send request to user's manager for approval, receive manager's decision, inform user, check if all resources are available, inform roc at ibm, inform user, provide requested resources, inform user, inform user

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 180. Choose the most suitable generated label for the process presented: (Select one option)

- perform performance analysis to request an increase in performance
- process resource request
- process user request
- update configuration configuration configuration for the remote control of screens
- none of the above is relevant (if selected, please skip all questions below and go to next page)

181. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

182. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#181 is Most important task OR Main outcome OR Provides a good overview

Manually created label

assess user's request

NOTE : Answer the below question only if answer to Q#181 is Most important task OR Main outcome OR Provides a good overview

* **183. What do you think about the quality of the selected generated label in comparison to the manually created label? (Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#183 is Better than the manually created label OR Equally good OR Worse

184. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Answer the below question only if answer to Q#183 is Better than the manually created label OR Equally good OR Worse

185. Do you have an alternative labeling suggestion for the model fragment? (optional)

NOTE : Stop, you have finished the survey

Case 1. Extracted labels

select "books" from dropdown list, enter search text, click "go"

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 186. Choose the most suitable generated label for the process presented: (Select one option)

- apply advanced search for books
- apply search for books
- search for books
- none of the above is relevant (if selected, please skip all questions below and go to next page)

187. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

188. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#187 is Most important task OR Main outcome OR Provides a good overview

Manually created label

search books

NOTE : Answer the below question only if answer to Q#187 is Most important task OR Main outcome OR Provides a good overview

*** 189. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#189 is Better than the manually created label OR Equally good OR Worse

190. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Answer the below question only if answer to Q#189 is Better than the manually created label OR Equally good OR Worse

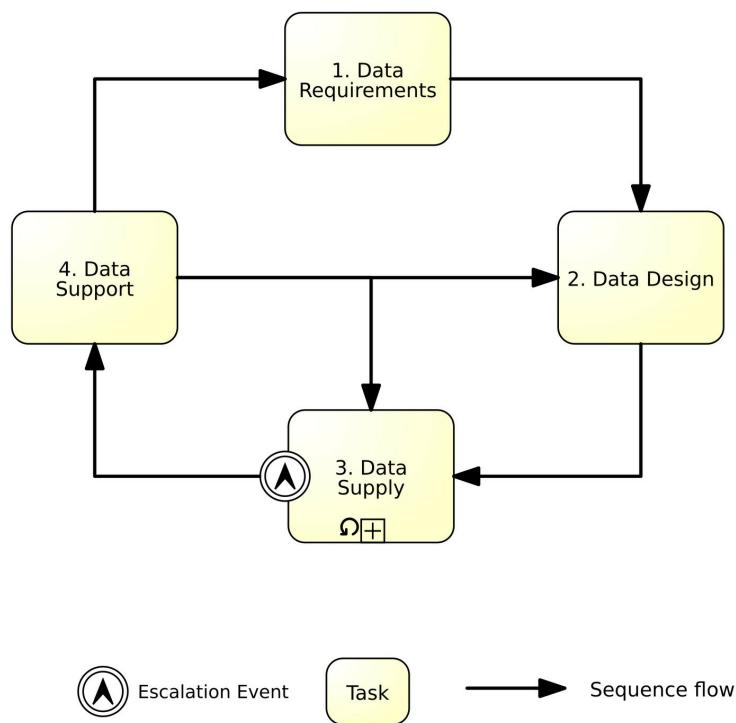
191. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 2. Extracted labels

data requirements, data design, data supply, data support

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.

Customer Data Lifecycle: Corporate Level (1)



* 192. Choose the most suitable generated label for the process presented: (Select one option)

- manage data requirements
- perform data analysis to conceptualise data
- perform data analysis
- manage data supply
- none of the above is relevant (if selected, please skip all questions below and go to next page)

193. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

194. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#193 is Most important task OR Main outcome OR Provides a good overview

Manually created label

manage customer data lifecycle

NOTE : Answer the below question only if answer to Q#193 is Most important task OR Main outcome OR Provides a good overview

* **195. What do you think about the quality of the selected generated label in comparison to the manually created label? (Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#195 is Better than the manually created label OR Equally good OR Worse

196. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

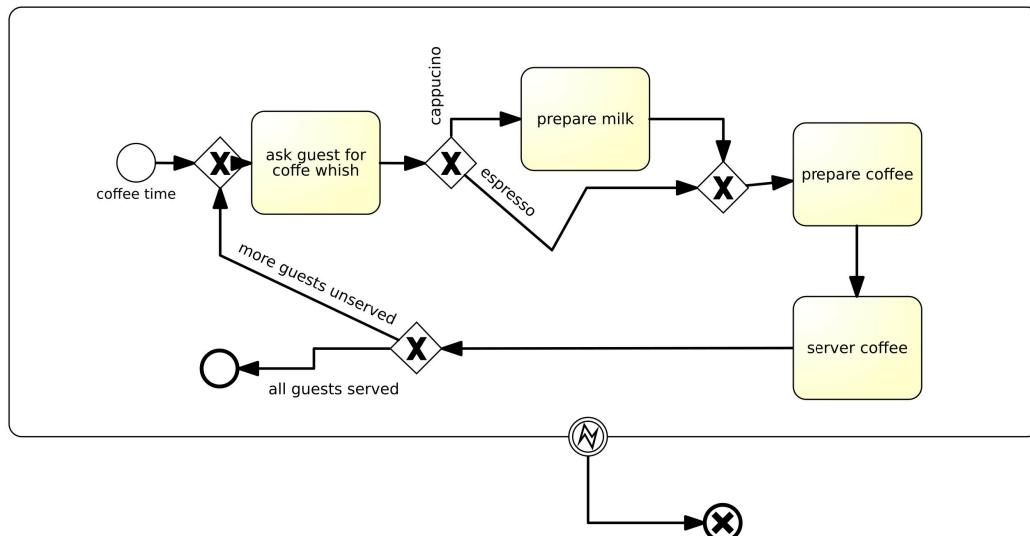
NOTE : Answer the below question only if answer to Q#195 is Better than the manually created label OR Equally good OR Worse

197. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 3. Extracted labels

coffee time, ask guest for coffee wish, prepare milk, prepare coffee, server coffee

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 198. Choose the most suitable generated label for the process presented: (Select one option)

- serve coffee
- prepare coffee
- preparation of the menu for the event
- none of the above is relevant (if selected, please skip all questions below and go to next page)

199. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

200. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#199 is Most important task OR Main outcome OR Provides a good overview

Manually created label

manage coffee break

NOTE : Answer the below question only if answer to Q#199 is Most important task OR Main outcome OR Provides a good overview

* **201. What do you think about the quality of the selected generated label in comparison to the manually created label?**
(Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#201 is Better than the manually created label OR Equally good OR Worse

202. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

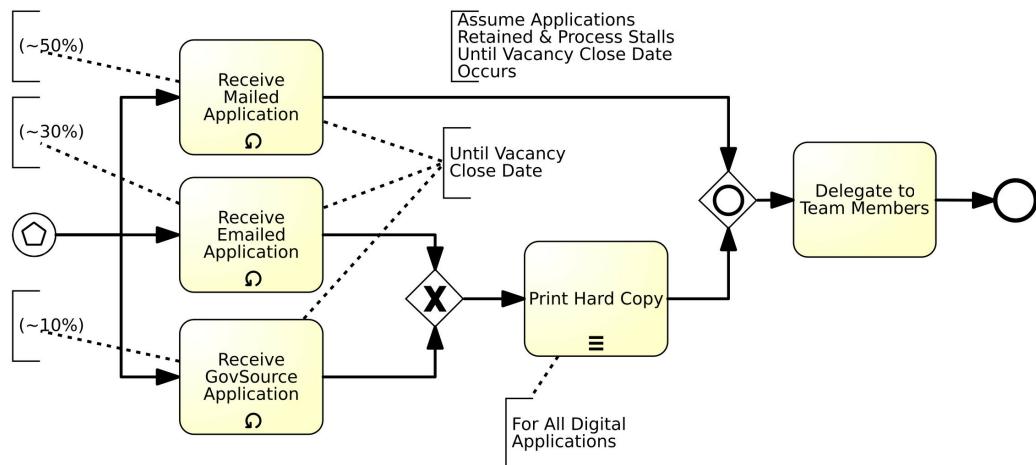
NOTE : Answer the below question only if answer to Q#201 is Better than the manually created label OR Equally good OR Worse

203. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 4. Extracted labels

receive mailed application, receive emailed application, receive govsource application, print hard copy, delegate to team members

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 204. Choose the most suitable generated label for the process presented: (Select one option)

- manage application
- send email reminders
- manage members
- handle members application
- none of the above is relevant (if selected, please skip all questions below and go to next page)

205. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

206. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#205 is Most important task OR Main outcome OR Provides a good overview

Manually created label

receive applications

NOTE : Answer the below question only if answer to Q#205 is Most important task OR Main outcome OR Provides a good overview

* 207. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#207 is Better than the manually created label OR Equally good OR Worse

208. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

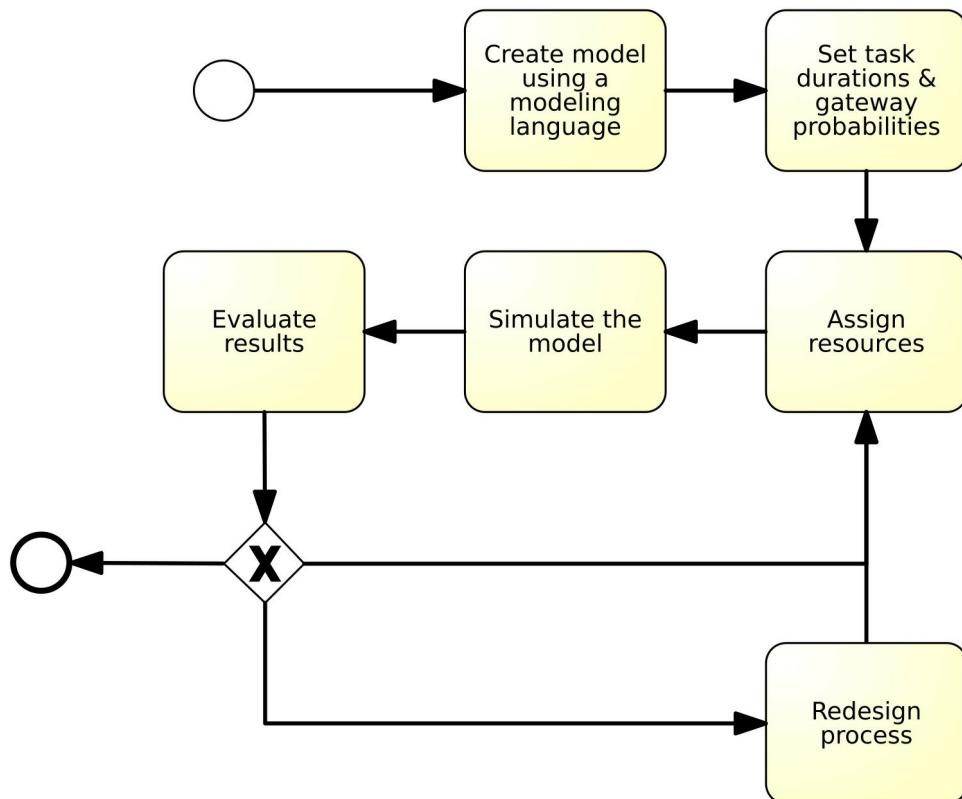
NOTE : Answer the below question only if answer to Q#207 is Better than the manually created label OR Equally good OR Worse

209. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 5. Extracted labels

create model using a modeling language, set task durations & gateway probabilities, assign resources, simulate the model, evaluate results, redesign process

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 210. Choose the most suitable generated label for the process presented: (Select one option)

- conduct analysis and prepare model for approval
- perform analysis to conceptualise process
- implementation of the design process
- implementation of a pipeline configuration for the allocation of resources
- none of the above is relevant (if selected, please skip all questions below and go to next page)

211. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

212. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#211 is Most important task OR Main outcome OR Provides a good overview

Manually created label

optimize results

NOTE : Answer the below question only if answer to Q#211 is Most important task OR Main outcome OR Provides a good overview

* **213. What do you think about the quality of the selected generated label in comparison to the manually created label? (Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#213 is Better than the manually created label OR Equally good OR Worse

214. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Answer the below question only if answer to Q#213 is Better than the manually created label OR Equally good OR Worse

215. Do you have an alternative labeling suggestion for the model fragment? (optional)

216. Would you like to continue helping us? (Select one option)

- Yes, please give me other 5 questions
- Nope, that's enough for today

NOTE : IF ANSWER TO Q216 is

Yes, please give me other 5 questions Go to Page No. 41

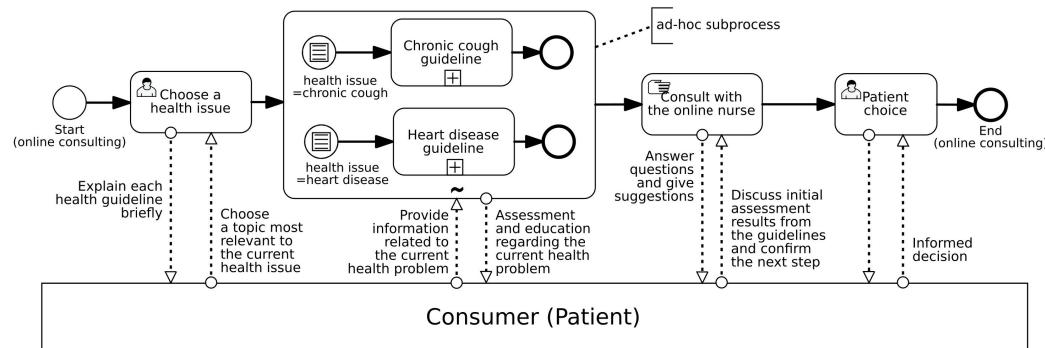
Nope, that's enough for today Stop, you have finished the survey

If Did Not Answer Then Go to Page No. 41

Case 6. Extracted labels

start online consulting, choose a health issue, chronic cough guideline, heart disease guideline, consult with the online nurse, patient choice, end online consulting

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 217. Choose the most suitable generated label for the process presented: (Select one option)

- conduct online consulting
- manage clinical pathway
- conduct online consultation
- consult patient
- none of the above is relevant (if selected, please skip all questions below and go to next page)

218. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

219. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#218 is Most important task OR Main outcome OR Provides a good overview

Manually created label

operate online consulting with patient

NOTE : Answer the below question only if answer to Q#218 is Most important task OR Main outcome OR Provides a good overview

* 220. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#220 is Better than the manually created label OR Equally good OR Worse

221. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

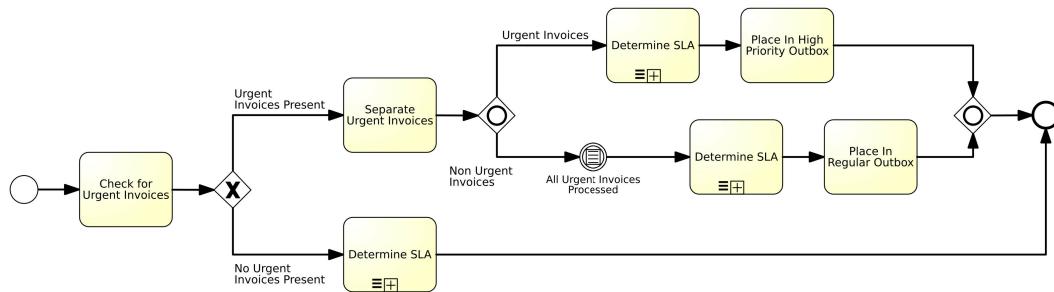
NOTE : Answer the below question only if answer to Q#220 is Better than the manually created label OR Equally good OR Worse

222. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 7. Extracted labels

check for urgent invoices, determine sla, separate urgent invoices, determine sla, place in high priority outbox, all urgent invoices processed, determine sla, place in regular outbox

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 223. Choose the most suitable generated label for the process presented: (Select one option)

- determine urgent invoices priority
- determine urgent invoices
- identify urgent invoices
- determine urgency
- none of the above is relevant (if selected, please skip all questions below and go to next page)

224. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

225. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#224 is Most important task OR Main outcome OR Provides a good overview

Manually created label

check urgency

NOTE : Answer the below question only if answer to Q#224 is Most important task OR Main outcome OR Provides a good overview

*** 226. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#226 is Better than the manually created label OR Equally good OR Worse

227. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

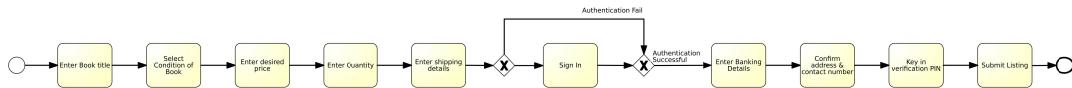
NOTE : Answer the below question only if answer to Q#226 is Better than the manually created label OR Equally good OR Worse

228. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 8. Extracted labels

enter book title, select condition of book, enter desired price, enter quantity, enter shipping details, sign in, enter banking details, confirm address & contact number, key in verification pin, submit listing

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 229. Choose the most suitable generated label for the process presented: (Select one option)

- enter book title
- apply for the first time
- registration for the book
- book seller ebay account
- none of the above is relevant (if selected, please skip all questions below and go to next page)

230. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

231. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#230 is Most important task OR Main outcome OR Provides a good overview

Manually created label

list book for sale

NOTE : Answer the below question only if answer to Q#230 is Most important task OR Main outcome OR Provides a good overview

*** 232. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#232 is Better than the manually created label OR Equally good OR Worse

233. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

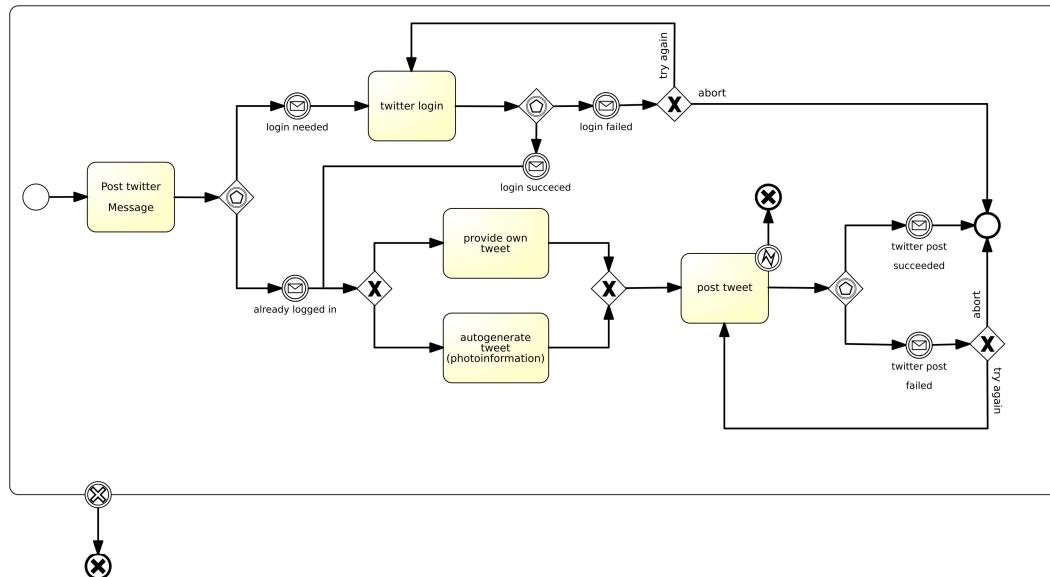
NOTE : Answer the below question only if answer to Q#232 is Better than the manually created label OR Equally good OR Worse

234. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 9. Extracted labels

post twitter message, login needed, twitter login, login succeeded, login failed, already logged in, provide own tweet, autogenerate tweet (photo information), post tweet, twitter post succeeded, twitter post failed

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 235. Choose the most suitable generated label for the process presented: (Select one option)

- log in
- handle twitter login
- login twitter
- none of the above is relevant (if selected, please skip all questions below and go to next page)

236. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

237. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#236 is Most important task OR Main outcome OR Provides a good overview

Manually created label

post twitter message

NOTE : Answer the below question only if answer to Q#236 is Most important task OR Main outcome OR Provides a good overview

*** 238. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#238 is Better than the manually created label OR Equally good OR Worse

239. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

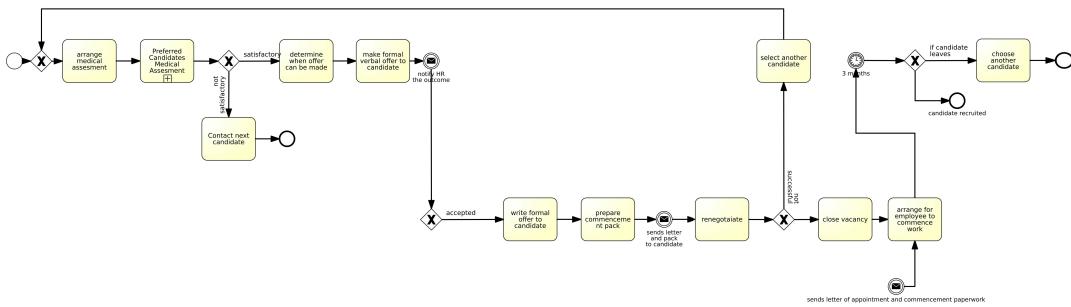
NOTE : Answer the below question only if answer to Q#238 is Better than the manually created label OR Equally good OR Worse

240. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 10. Extracted labels

arrange medical assesment, preferred candidates medical assessment, contact next candidate, determine when offer can be made, make formal verbal offer to candidate, notify hr the outcome, write formal offer to candidate, prepare commencement pack, sends letter and pack to candidate, renegotiate, select another candidate, close vacancy, sends letter of appointment and commencement paperwork, arrange for employee to commence work, 3 months, choose another candidate, candidate recruited

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 241. Choose the most suitable generated label for the process presented: (Select one option)

- arrange medical assessment and offer to candidate
- conduct medical assessment
- prepare recruitment
- select candidate
- none of the above is relevant (if selected, please skip all questions below and go to next page)

242. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

243. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#242 is Most important task OR Main outcome OR Provides a good overview

Manually created label

operate final recruitment

NOTE : Answer the below question only if answer to Q#242 is Most important task OR Main outcome OR Provides a good overview

*** 244. What do you think about the quality of the selected generated label in comparison to the manually created label? (Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#244 is Better than the manually created label OR Equally good OR Worse

245. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Answer the below question only if answer to Q#244 is Better than the manually created label OR Equally good OR Worse

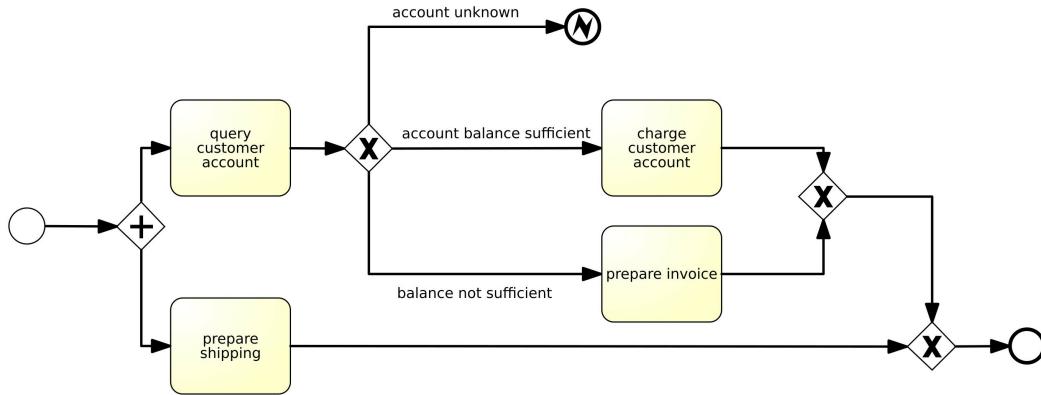
246. Do you have an alternative labeling suggestion for the model fragment? (optional)

NOTE :Stop, you have finished the survey

Case 1. Extracted labels

query customer account, charge customer account, prepare invoice, prepare shipping

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 247. Choose the most suitable generated label for the process presented: (Select one option)

- prepare shipping invoice
- prepare customer order
- manage customer account configuration
- process shipping order request
- none of the above is relevant (if selected, please skip all questions below and go to next page)

248. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

249. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#248 is Most important task OR Main outcome OR Provides a good overview

Manually created label

execute automated order processing

NOTE : Answer the below question only if answer to Q#248 is Most important task OR Main outcome OR Provides a good overview

*** 250. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#250 is Better than the manually created label OR Equally good OR Worse

251. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

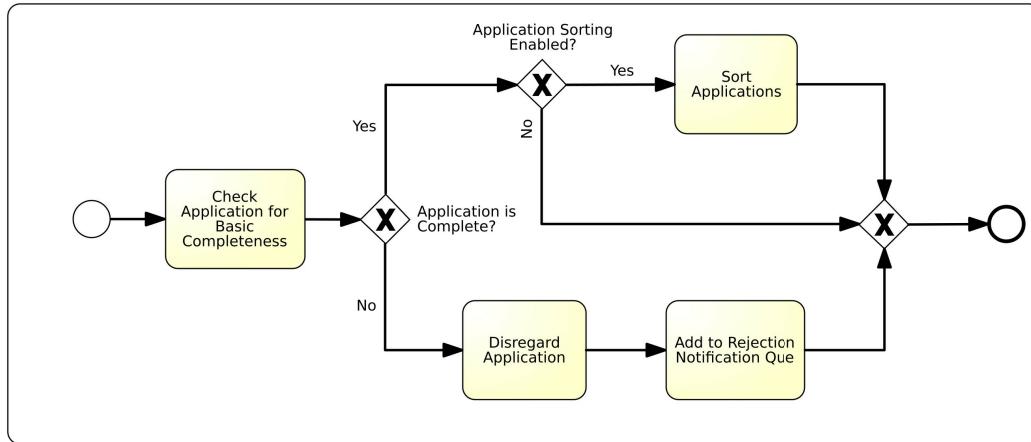
NOTE : Answer the below question only if answer to Q#250 is Better than the manually created label OR Equally good OR Worse

252. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 2. Extracted labels

check application for basic completeness, sort applications, disregard application, add to rejection notification que

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 253. Choose the most suitable generated label for the process presented: (Select one option)

- check application for basic completeness
- process application
- registration for incoming applications
- check application
- none of the above is relevant (if selected, please skip all questions below and go to next page)

254. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

255. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#254 is Most important task OR Main outcome OR Provides a good overview

Manually created label

manage application received

NOTE : Answer the below question only if answer to Q#254 is Most important task OR Main outcome OR Provides a good overview

* 256. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#256 is Better than the manually created label OR Equally good OR Worse

257. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

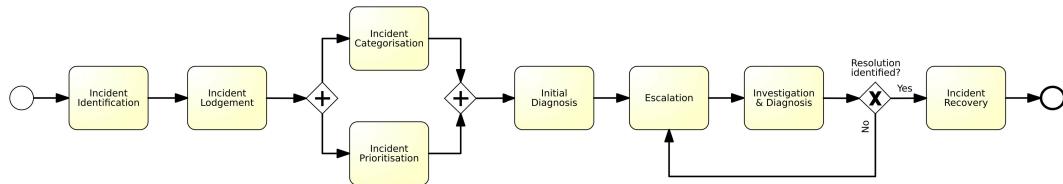
NOTE : Answer the below question only if answer to Q#256 is Better than the manually created label OR Equally good OR Worse

258. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 3. Extracted labels

incident identification, incident lodgement, incident categorisation, incident prioritisation, initial diagnosis

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 259. Choose the most suitable generated label for the process presented: (Select one option)

- incident identification and categorization
- classify incident
- manage incident
- conduct initial diagnosis
- none of the above is relevant (if selected, please skip all questions below and go to next page)

260. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

261. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#260 is Most important task OR Main outcome OR Provides a good overview

Manually created label

manage incident

NOTE : Answer the below question only if answer to Q#260 is Most important task OR Main outcome OR Provides a good overview

*** 262. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#262 is Better than the manually created label OR Equally good OR Worse

263. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

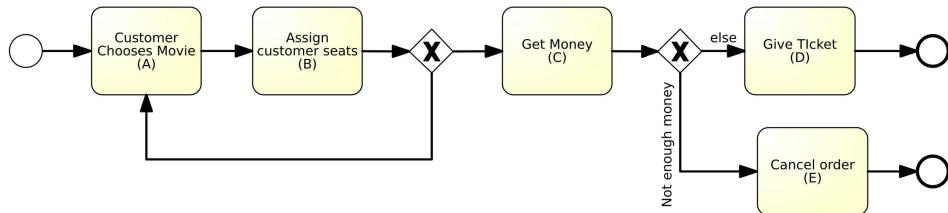
NOTE : Answer the below question only if answer to Q#262 is Better than the manually created label OR Equally good OR Worse

264. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 4. Extracted labels

customer chooses movie (a), assign customer seats (b), get money (c), give ticket (d), cancel order (e)

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 265. Choose the most suitable generated label for the process presented: (Select one option)

- handle customer order
- handle customer purchase
- none of the above is relevant (if selected, please skip all questions below and go to next page)

266. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

267. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#266 is Most important task OR Main outcome OR Provides a good overview

Manually created label

purchase movie ticket

NOTE : Answer the below question only if answer to Q#266 is Most important task OR Main outcome OR Provides a good overview

*** 268. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#268 is Better than the manually created label OR Equally good OR Worse

269. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

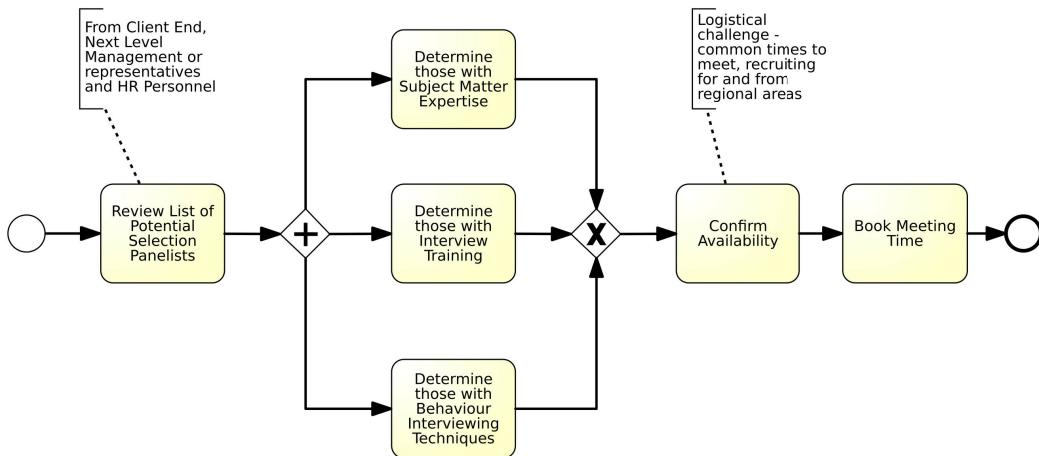
NOTE : Answer the below question only if answer to Q#268 is Better than the manually created label OR Equally good OR Worse

270. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 5. Extracted labels

review list of potential selection panelists, determine those with subject matter expertise, determine those with interview training, determine those with behaviour interviewing techniques, confirm availability, book meeting time

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



*** 271. Choose the most suitable generated label for the process presented: (Select one option)**

- arrange panel
- conduct selection panelists
- registration for the event done
- select panel
- none of the above is relevant (if selected, please skip all questions below and go to next page)

272. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

273. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#272 is Most important task OR Main outcome OR Provides a good overview

Manually created label

assemble selection panel

NOTE : Answer the below question only if answer to Q#272 is Most important task OR Main outcome OR Provides a good overview

* 274. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#274 is Better than the manually created label OR Equally good OR Worse

275. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Answer the below question only if answer to Q#274 is Better than the manually created label OR Equally good OR Worse

276. Do you have an alternative labeling suggestion for the model fragment? (optional)

277. Would you like to continue helping us? (Select one option)

- Yes, please give me other 5 questions
- Nope, that's enough for today

NOTE : IF ANSWER TO Q277 is

Yes, please give me other 5 questions Go to Page No. 52

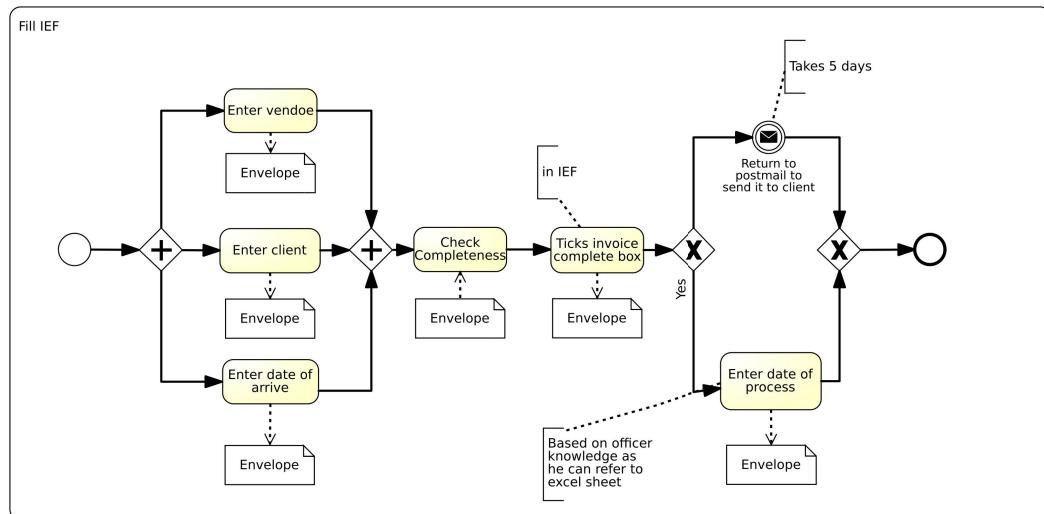
Nope, that's enough for today Stop, you have finished the survey

If Did Not Answer Then Go to Page No. 52

Case 6. Extracted labels

enter vendoe, enter client, enter date of arrive, check completeness, ticks invoice complete box, enter date of process, return to postmail to send it to client

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 278. Choose the most suitable generated label for the process presented: (Select one option)

- complete invoice entry form
- tick the invoice box
- complete invoice configuration
- none of the above is relevant (if selected, please skip all questions below and go to next page)

279. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

280. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

Lowest 1	2	3	4	Highest 5
-------------	---	---	---	--------------

(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#279 is Most important task OR Main outcome OR Provides a good overview

Manually created label

fill information and check completeness

NOTE : Answer the below question only if answer to Q#279 is Most important task OR Main outcome OR Provides a good overview

* 281. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#281 is Better than the manually created label OR Equally good OR Worse

282. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

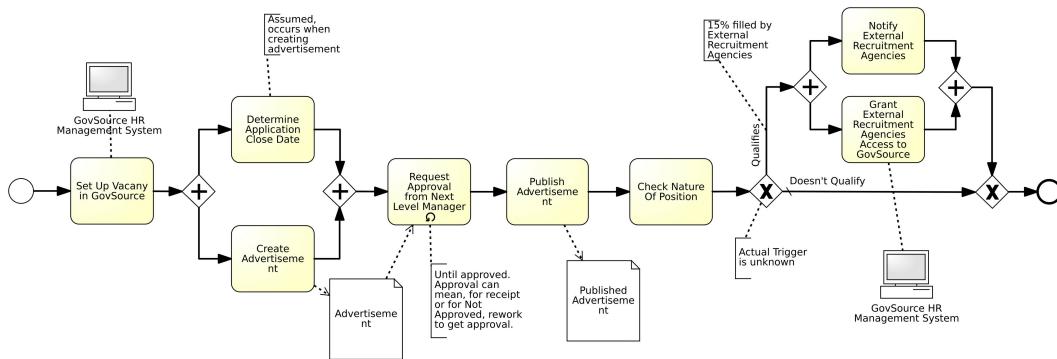
NOTE : Answer the below question only if answer to Q#281 is Better than the manually created label OR Equally good OR Worse

283. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 7. Extracted labels

set up vacany in govsource, create advertisement, determine application close date, request approval from next level manager, publish advertisement, check nature of position, notify external recruitment agencies, grant external recruitment agencies access to govsource

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 284. Choose the most suitable generated label for the process presented: (Select one option)

- create vacany in govsource
- publish advertisement
- create and publish advertisement
- prepare for recruitment
- none of the above is relevant (if selected, please skip all questions below and go to next page)

285. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

286. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#285 is Most important task OR Main outcome OR Provides a good overview

Manually created label

advertise vacancy

NOTE : Answer the below question only if answer to Q#285 is Most important task OR Main outcome OR Provides a good overview

* 287. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#287 is Better than the manually created label OR Equally good OR Worse

288. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

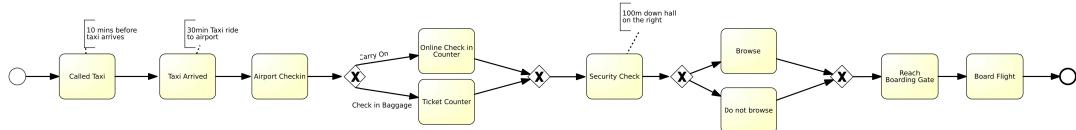
NOTE : Answer the below question only if answer to Q#287 is Better than the manually created label OR Equally good OR Worse

289. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 8. Extracted labels

called taxi, taxi arrived, airport check in, online check in counter, ticket counter, security check, browse, do not browse, reach boarding gate, board flight

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 290. Choose the most suitable generated label for the process presented: (Select one option)

- self check in
- check in
- self-check in
- board flight
- none of the above is relevant (if selected, please skip all questions below and go to next page)

291. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

292. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#291 is Most important task OR Main outcome OR Provides a good overview

Manually created label

board flight

NOTE : Answer the below question only if answer to Q#291 is Most important task OR Main outcome OR Provides a good overview

*** 293. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#293 is Better than the manually created label OR Equally good OR Worse

294. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

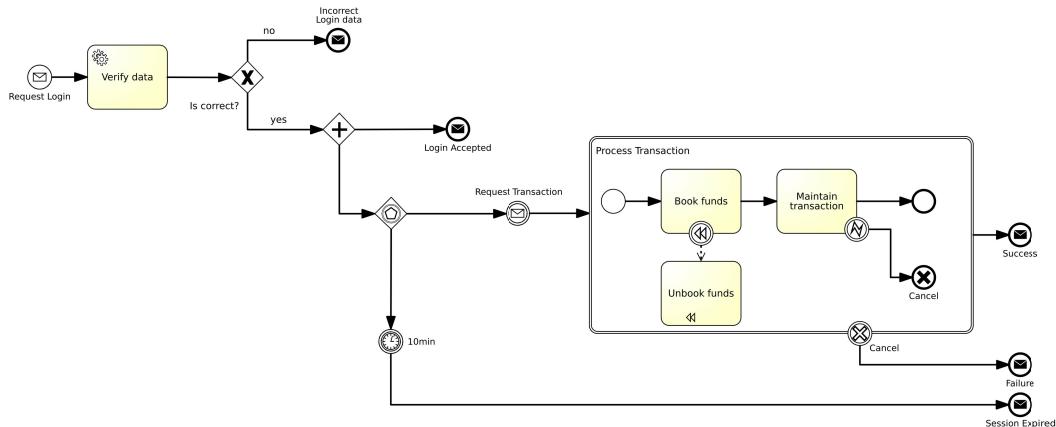
NOTE : Answer the below question only if answer to Q#293 is Better than the manually created label OR Equally good OR Worse

295. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 9. Extracted labels

request login, verify data, incorrect login data, login accepted, request transaction, process transaction, cancel, failure, success, 10min, session expired

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 296. Choose the most suitable generated label for the process presented: (Select one option)

- process request
- process transaction
- login
- verify user log in
- none of the above is relevant (if selected, please skip all questions below and go to next page)

297. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

298. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#297 is Most important task OR Main outcome OR Provides a good overview

Manually created label

process online transaction

NOTE : Answer the below question only if answer to Q#297 is Most important task OR Main outcome OR Provides a good overview

* 299. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#299 is Better than the manually created label OR Equally good OR Worse

300. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

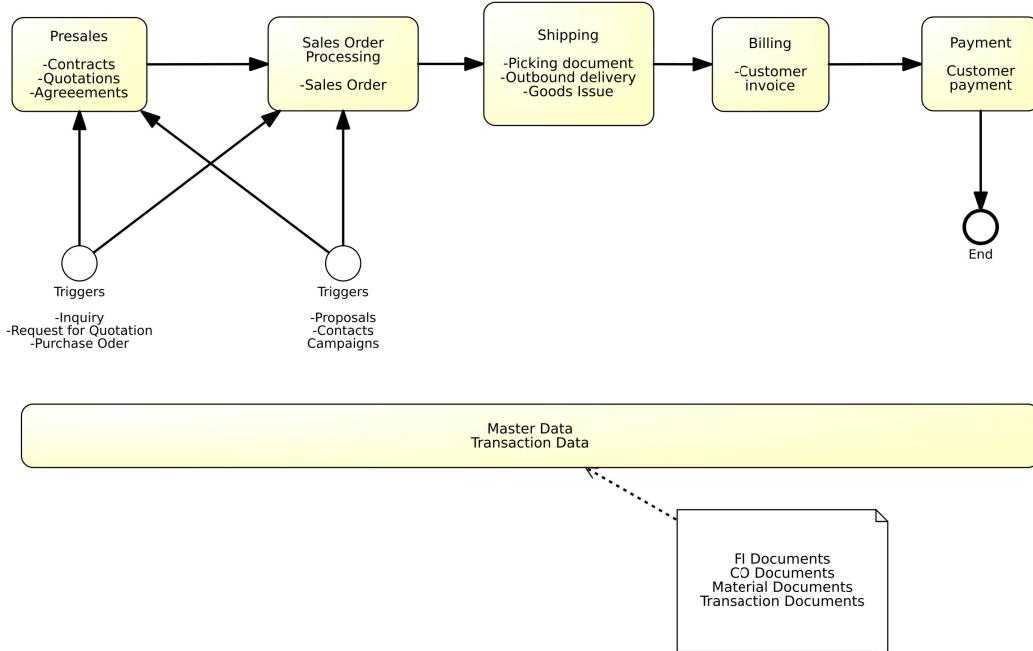
NOTE : Answer the below question only if answer to Q#299 is Better than the manually created label OR Equally good OR Worse

301. Do you have an alternative labeling suggestion for the model fragment? (optional)

Case 10. Extracted labels

triggers proposals, contacts campaigns, inquiry, request for quotation, or purchase order, presales, contracts, quotations, agreements, sales order processing, sales order, shipping, picking document, outbound delivery, goods issue, billing, customer invoice, payment, customer payment, end

Tip: In our project setting, only the labels of events (circular elements) and tasks (rectangle elements) in the process model are extracted. Due to data quality issues, not all the labels of events and tasks can be extracted successfully.



* 302. Choose the most suitable generated label for the process presented: (Select one option)

- manage sales order production
- operate sales process
- manage sales order
- manage sales lead
- none of the above is relevant (if selected, please skip all questions below and go to next page)

303. Main reason for the labelling choice (one or more is possible):

- Most important task
- Main outcome
- Provides a good overview

304. Rate the selected label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Display this comment only if answer to Q#303 is Most important task OR Main outcome OR Provides a good overview

Manually created label

operate sales order management

NOTE : Answer the below question only if answer to Q#303 is Most important task OR Main outcome OR Provides a good overview

*** 305. What do you think about the quality of the selected generated label in comparison to the manually created label?
(Select one option)**

- Better than the manually created label
- Equally good
- Worse

NOTE : Answer the below question only if answer to Q#305 is Better than the manually created label OR Equally good OR Worse

306. Rate the manually created label:

Tip: Relevance - How applicable is the label to the process presented (Precision)? Informativeness - Is the label a sufficient representative of the process presented (Recall)? Fluency - Is the label easy to read and understand?

	Lowest 1	2	3	4	Highest 5
(a) Relevance	<input type="radio"/>				
(b) Informativeness	<input type="radio"/>				
(c) Fluency	<input type="radio"/>				

NOTE : Answer the below question only if answer to Q#305 is Better than the manually created label OR Equally good OR Worse

307. Do you have an alternative labeling suggestion for the model fragment? (optional)
