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# 8. Business Process Modeling

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# Discussion Topics

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- Business process modeling(BMP)
- Notation defining workflows
- Some rules for creating BPN
- BPM example and practicing
- Why does BPM uses?
- Integrating Requirements and Business Process Models in BPM Projects(Online Materials)

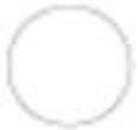
# Business Process Model(BPM)

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- ❑ Business process modeling is the graphical representation of a company's business processes or workflows, as a means of identifying potential improvements.
- ❑ Business process modelling represents:
  - Business activities,
  - Information flow and,
  - Decision logic in business processes.

# Elements of BPS

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Start Event

*A Start Event indicates where a particular process will start.*



Intermediate Event

*Intermediate Events occur between a Start Event and an End Event. It will affect the flow of the process, but will not start or (directly) terminate the process.*



End Event

*An End Event indicates where a process will end.*

# Elements of BPS

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Sequence Flow

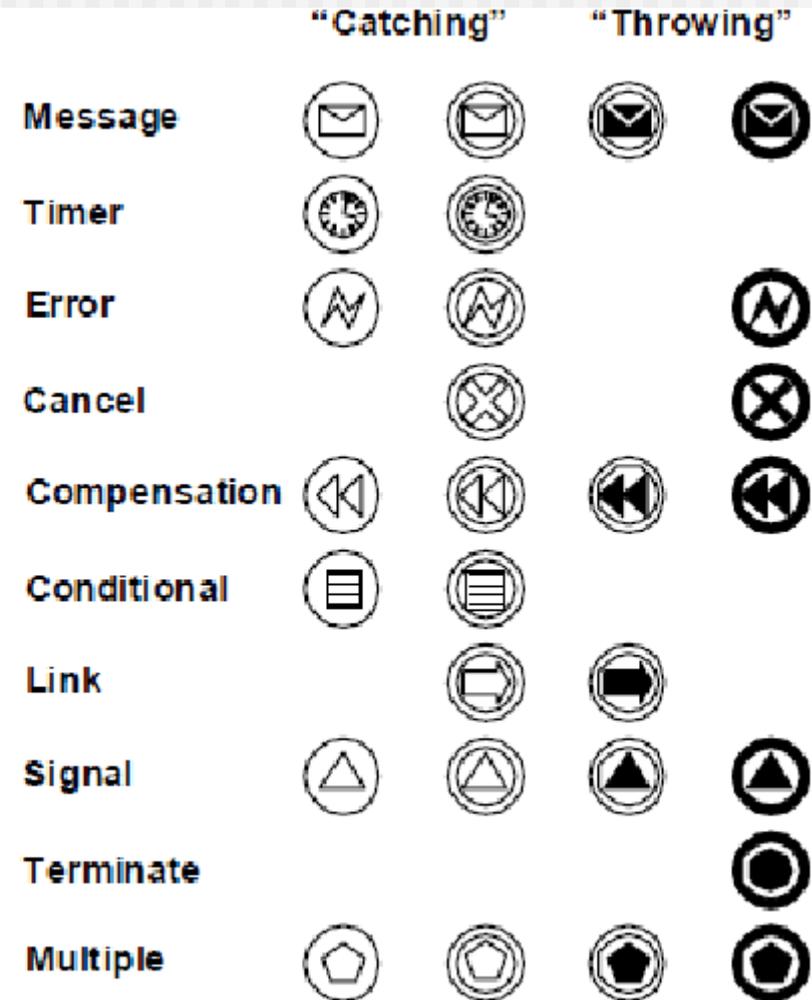
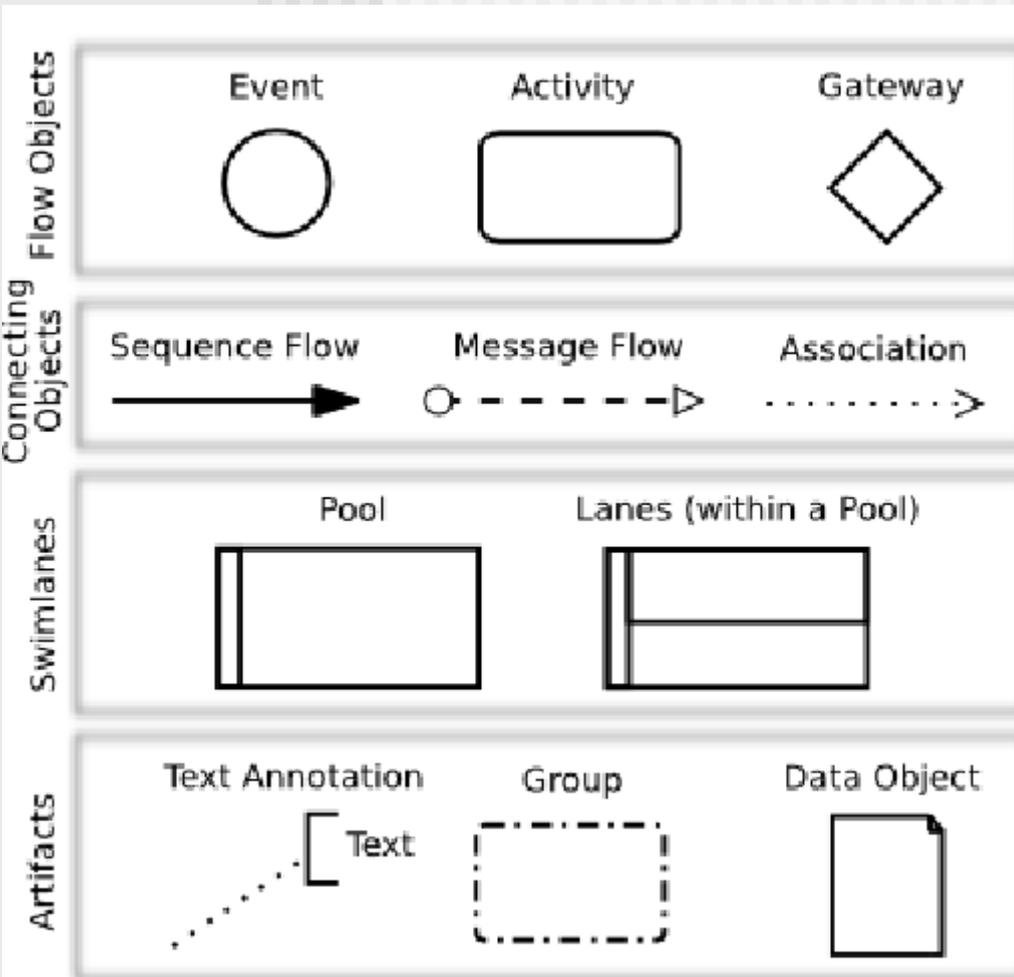


Message Flow

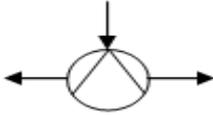
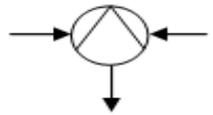
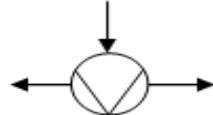
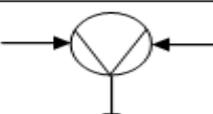
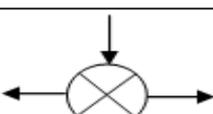
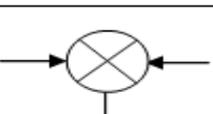


Association

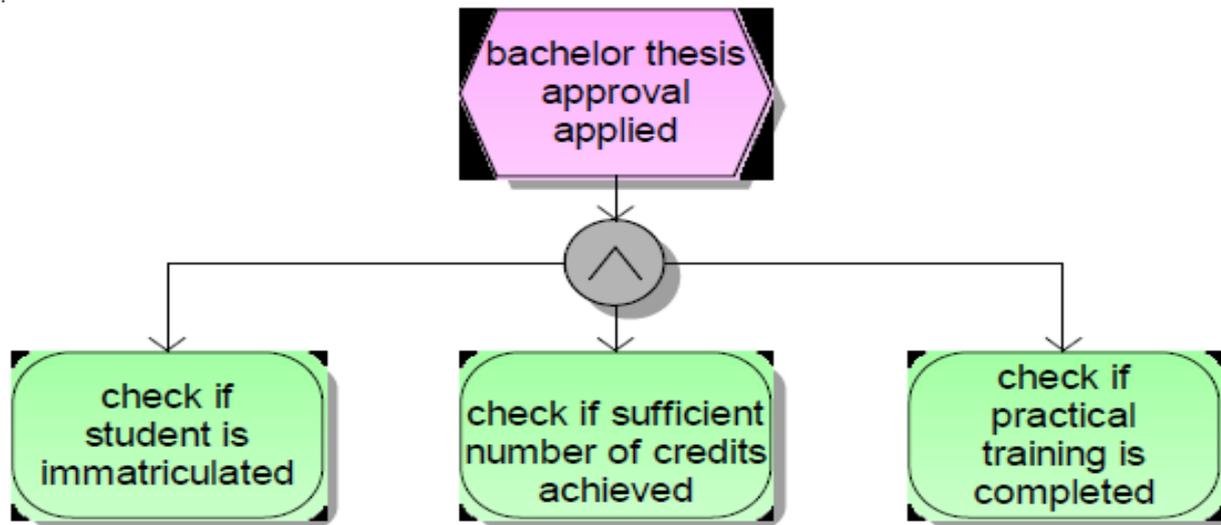
# Elements of BPS



# Gateway Types

Konnektors:	AND	Split	
		Join	
	OR	Split	
		Join	
	XOR	Split	
		Join	

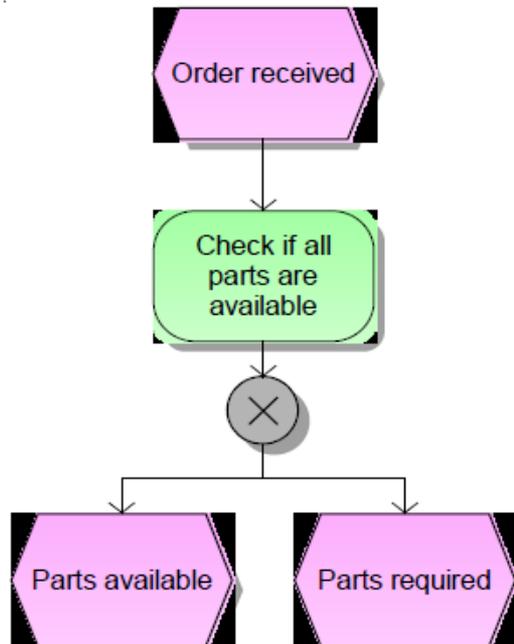
# Logical Connectors



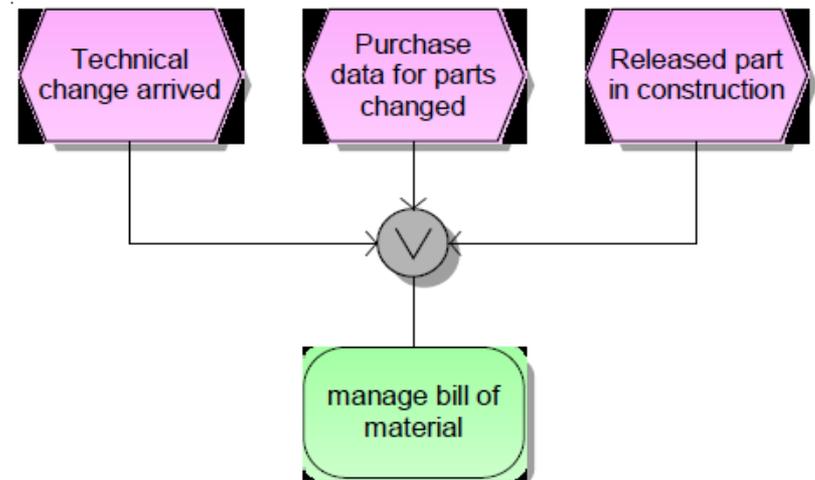
 AND - Function

After the event, all the functions are started

# Different Types of "OR"



 Exclusive OR - Function  
After the Function just one event is occurring



 OR - Function  
Function can only be started if one or more events have occurred

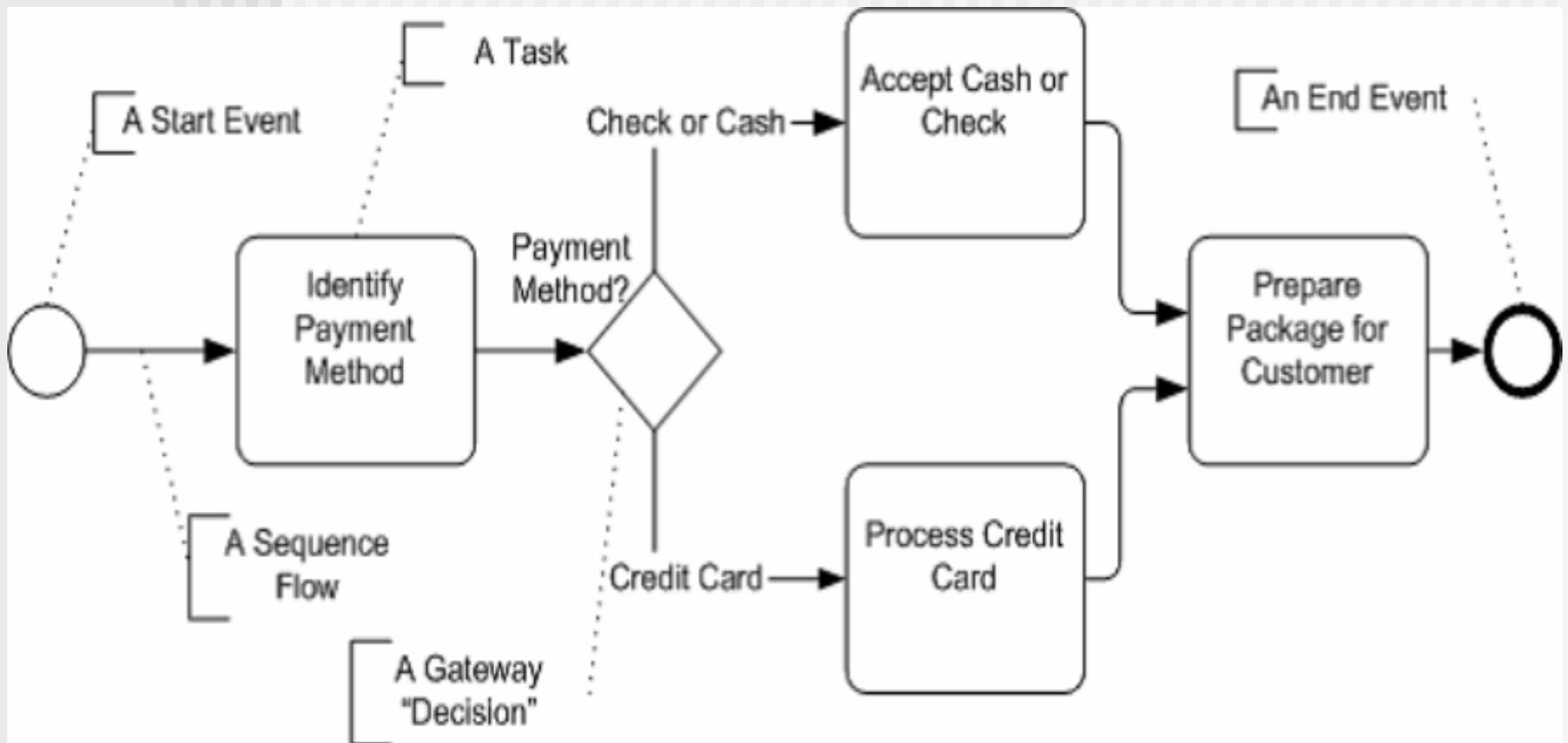
# Some rules for EPCs

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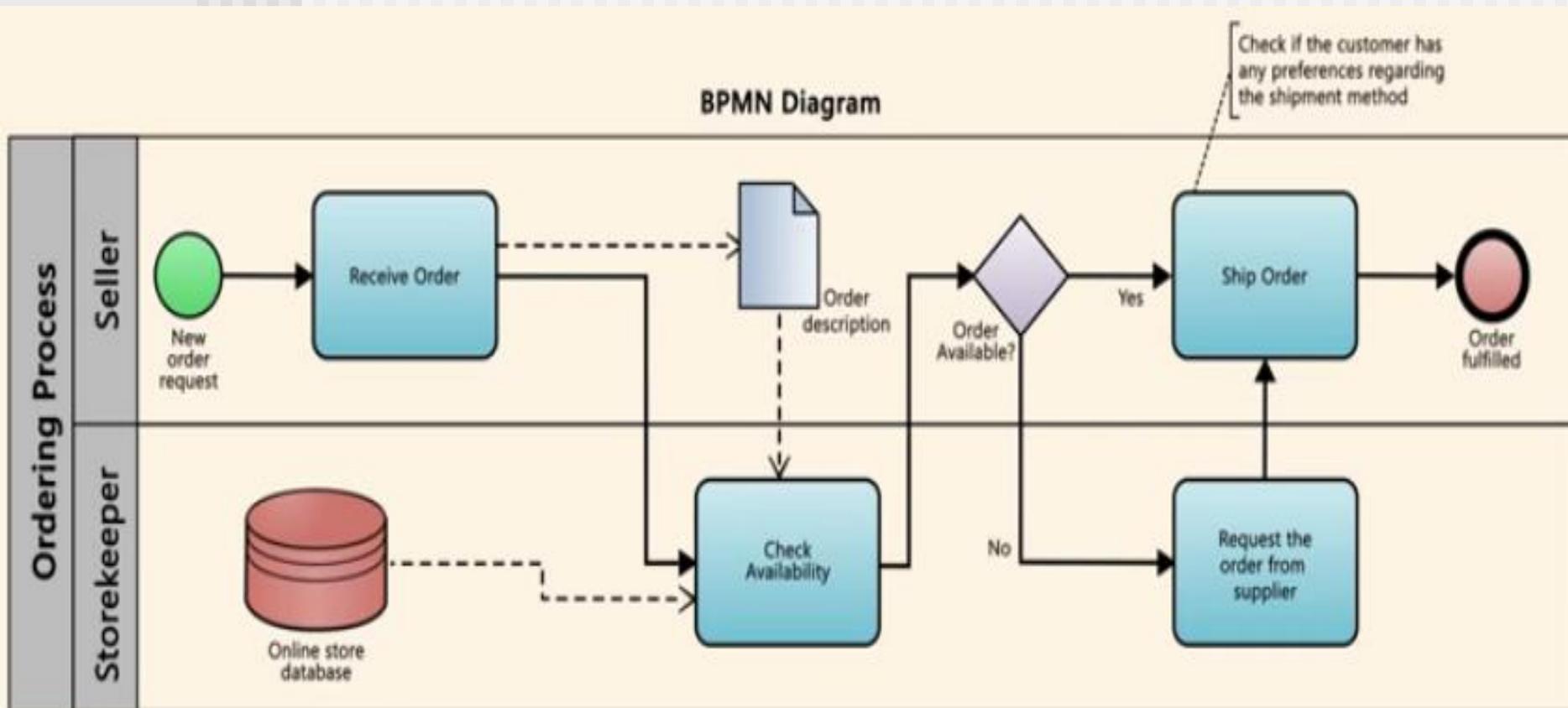
- ❑ at least one function
- ❑ at least one start event
- ❑ at least one end event
- ❑ each function is preceded and followed by an event
- ❑ an event is preceded and followed by a function, except the start and end events
- ❑ each event and function has, at most, one ingoing and one outgoing flow
- ❑ splits and joins are realised via connectors
- ❑ an OR or XOR split cannot be invoked by an event (events cannot decide anything)

# Business Process Model for Payment Process

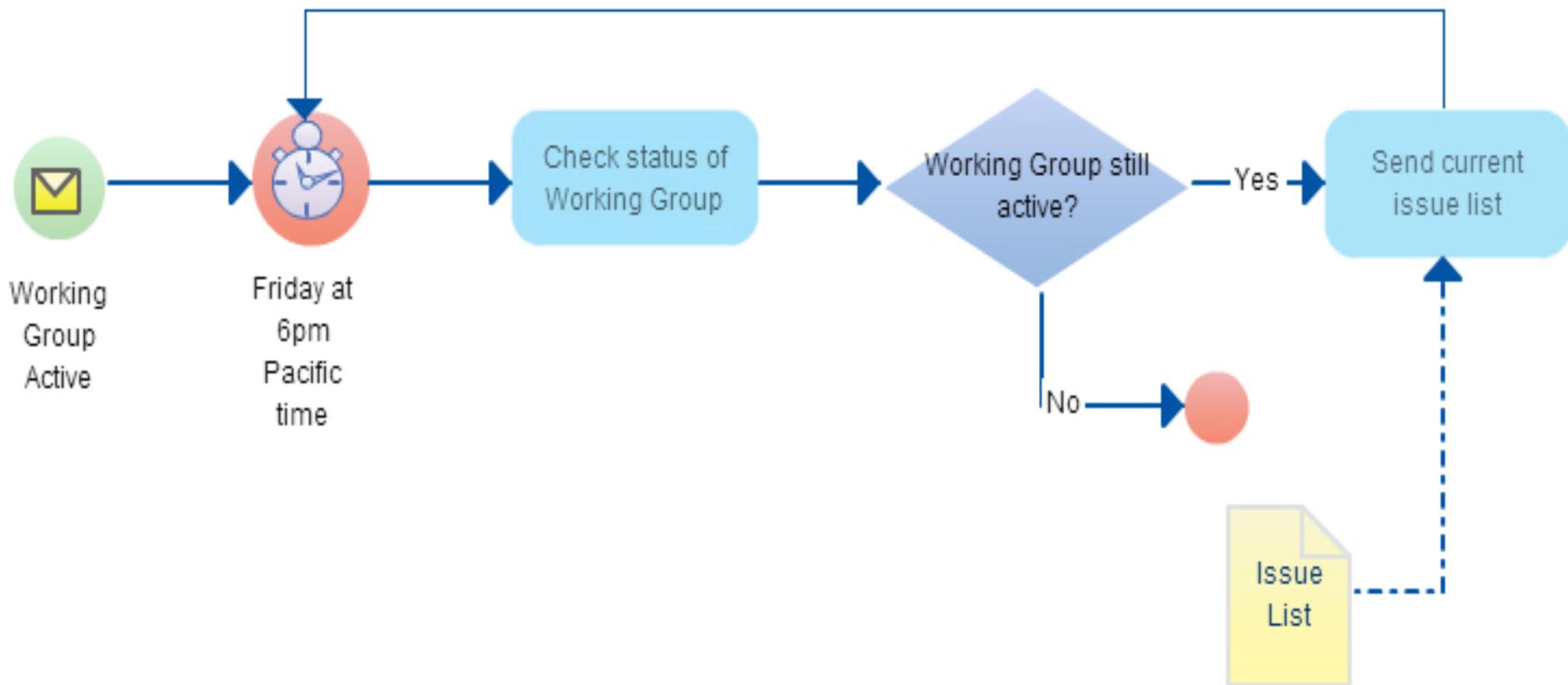
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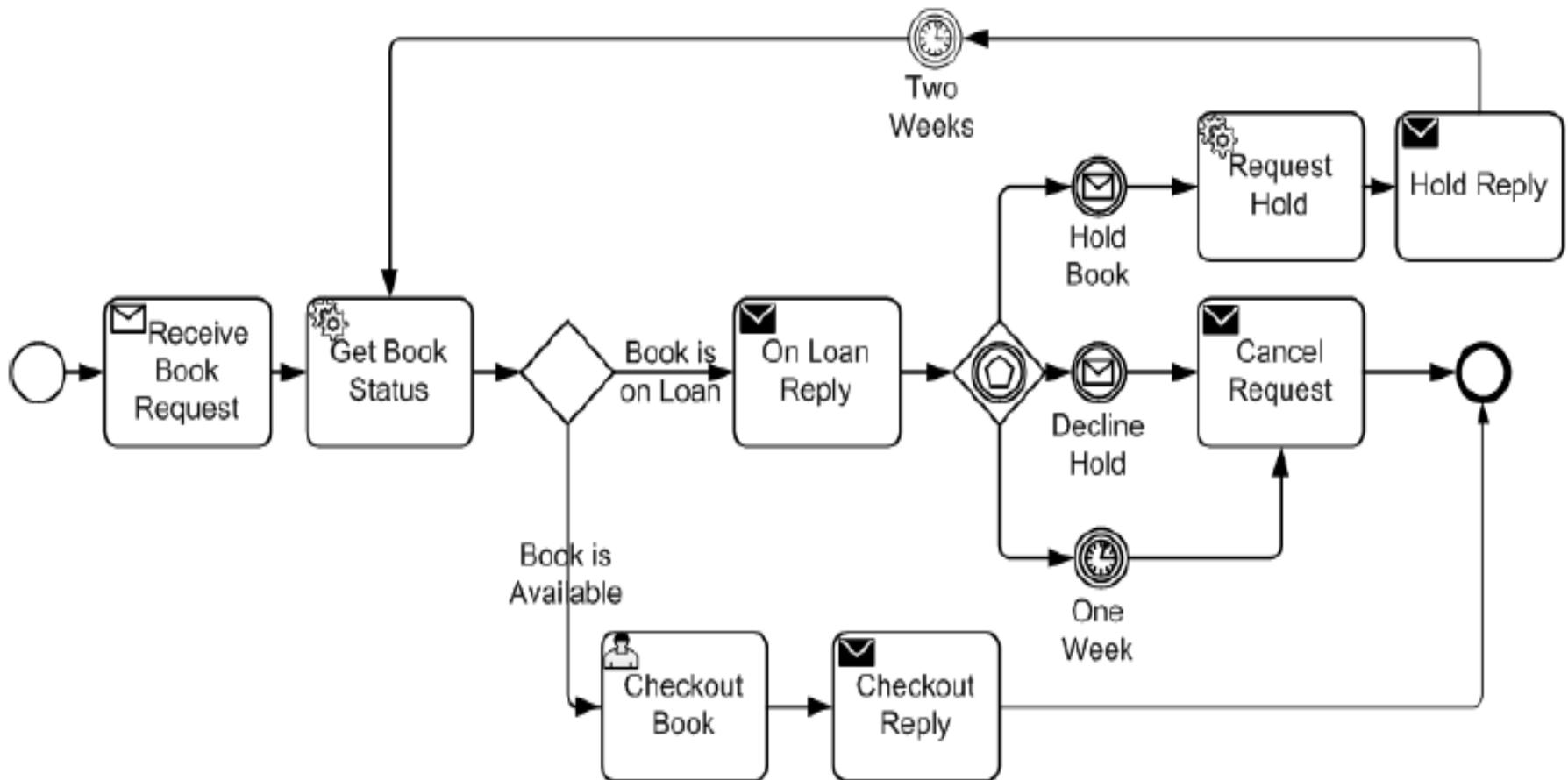
# BPM for Ordering request



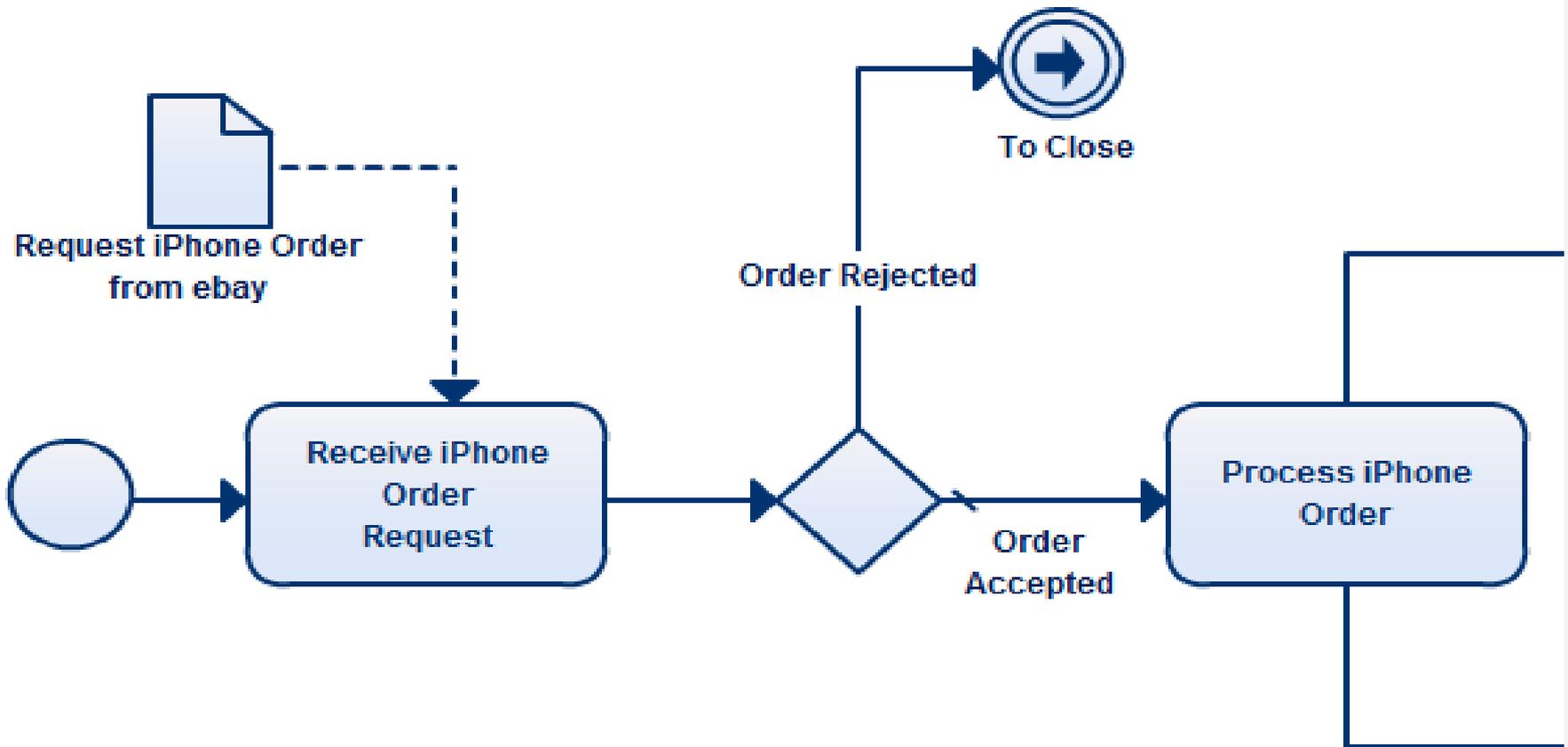
# A Business Process Modeled Using BPN Notation



# Business Process Model for Book Requisition Request



# Business Process Model for product order from ebay



# Why Use Business Process Modeling

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- 1. Align Operations with Business Strategy**
- 2. Improve Process Communication**
- 3. Increase Control and Consistency**
- 4. Improve Operational Efficiencies**
- 5. Gain Competitive Advantage**