

BPMN METHOD

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44

End State

- Task:
 - Implicit in labels on gateway following?
- Subprocess:
 - Define separate end event for each end state
 - Match labels on gateway following

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Step 1: Determine Process Scope

- How does process start?
- What determines when it is complete?
- What does each instance of process represent?
- Are there different ways that a process could end?

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46

Example: Auto Purchase

- Start event?
- Order agreement
 - Custom order?
 - Refundable deposit?
 - More than one car?
- End event
 - Transaction complete
 - Financing unavailable (financing)
 - Delivery date unacceptable (sales)

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47

Step 2: High-Level Map

- List of high-level activities
- Each activity with well-defined start & end
- Match completion and start events
- Match with governance boundaries
- End states of activities

48

48

Example: Auto (1/2)

- Finalize order (sales)
 - End states: reserved from stock; dealer trade; order from factory
- Acquire car from local dealer (sales)
 - End state: car received
- Acquire car from factory (sales)
 - End states: car received; order cancelled
- Prepare car for delivery (service dept)
 - End state: ready

49

49

Example: Auto (2/2)

- Arrange financing (finance)
 - End states: financing confirmed; financing unavailable
- Close and deliver (finance)
 - End state: transaction complete
- Handle order cancellation (finance)
 - End state: delivery date unacceptable; financing unavailable

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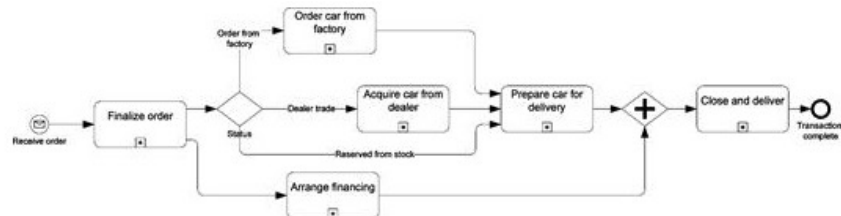
Step 3: Top-Level Process Diagram

- High-level activity == subprocess
- Conditional activities follow gateway
 - Label gates based on end states
- Parallel flows:
 - Parallel gateway or
 - Multiple sequence flows from preceding activity
- *Happy Path*

51

51

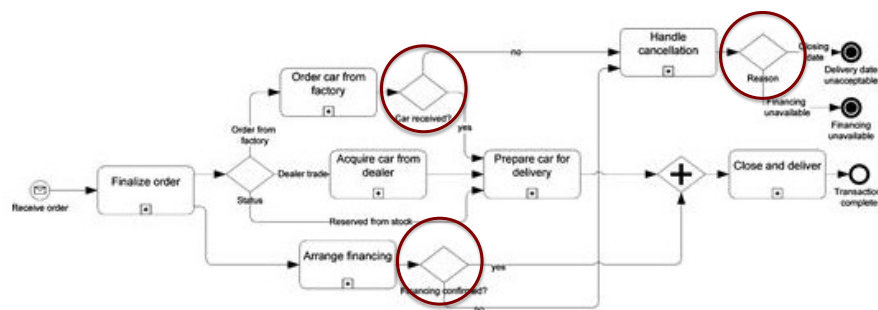
Happy Path



52

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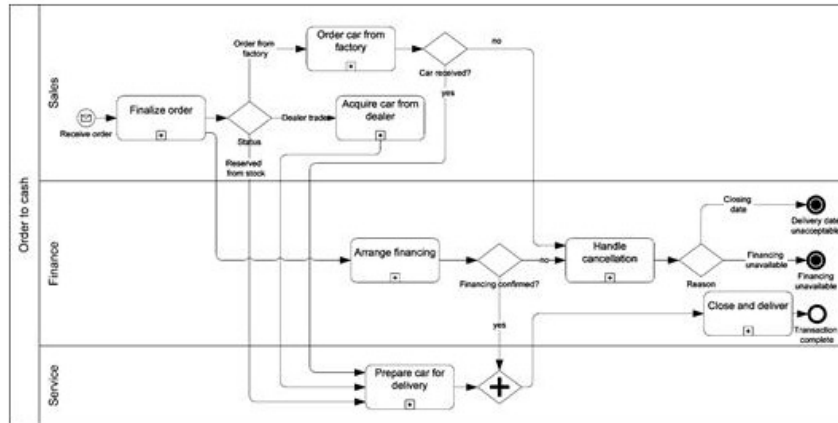
Exception Path



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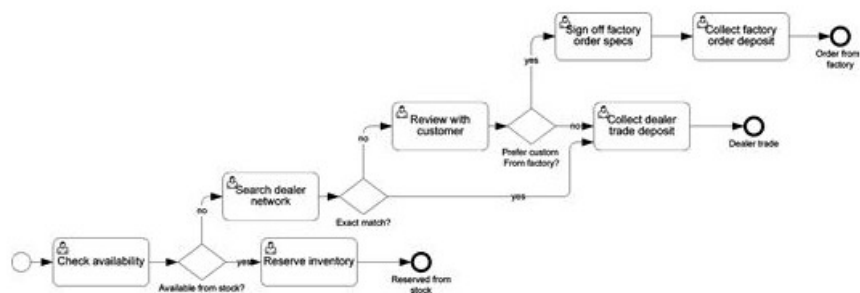
Pools and Lanes



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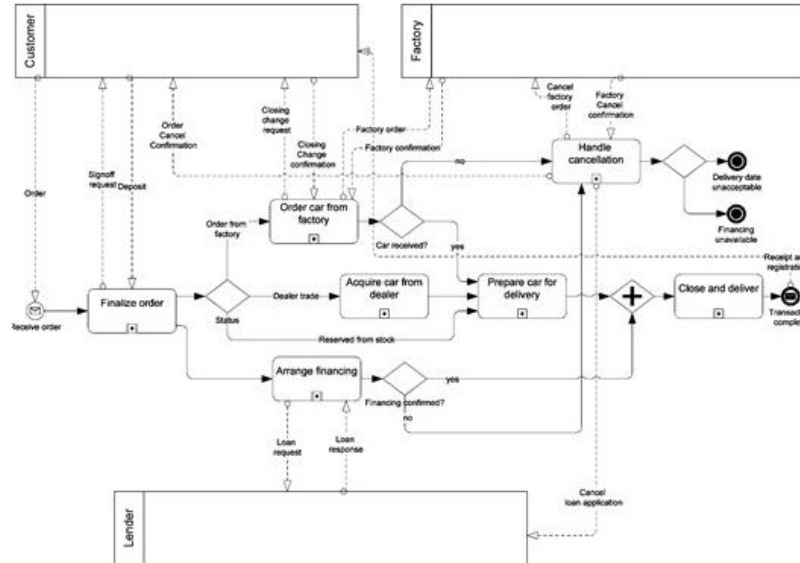
Step 4: Child-Level Expansion



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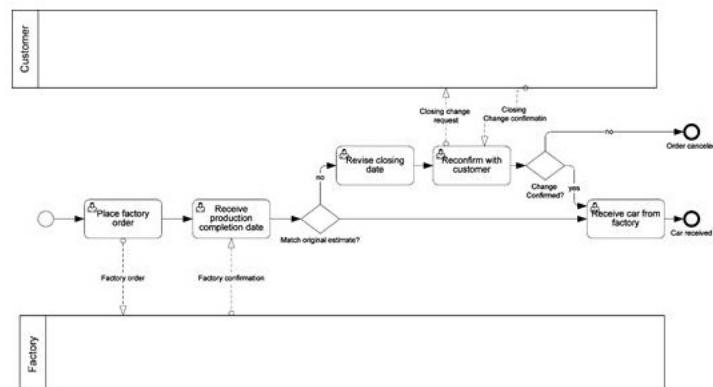
Step 5: Add Message Flows



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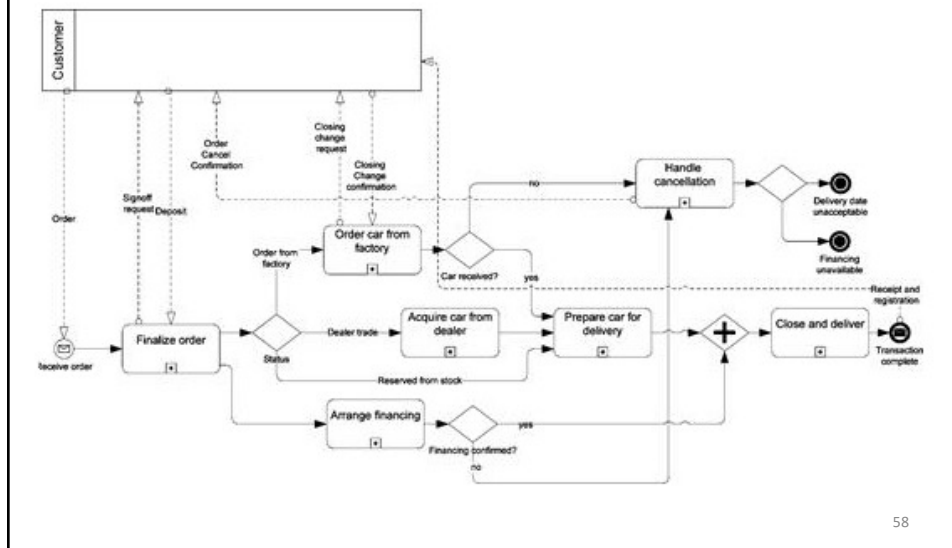
Step 5: Add Message Flows



57

57

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58

Method Summary

- Agree on process scope
 - When it starts and ends
 - Possible end states
- Enumerate major activities as list
 - Possible end states
- Create top-level BPMN diagram
 - One top-level end event per process end state
 - Gateways for conditional and concurrent paths
- Expand subprocess
 - Match subprocess end state and gateway labels
- Business context: message flows
 - External requesters etc as black-box pools
- Repeat for additional nested levels

59

59