SpiffWorkflow

Task/activities

A task or activity represents a unit of work.

Represents a specific piece of work or an action that needs to be accomplished.

Call Activity +

Task

Activity that references another process. It's useful for reusing common processes within multiple parent processes

> A collection of related tasks within a larger process.

> > Task or Activity

Activity Marker

Description

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Task Types

Task Type User Task: Web forms Manual Task: Manual Confirmation Business Rule Task: Make decisions ίĝ, Service Task: Call an external application

E Script Task: Write some python! Send Task: Send a message

- Receive Task: Await a message

Activity Markers

Sub-Process: This task references and includes another T workflow process

Loop: Indicates that the task can be repeated based on a specific condition

Parallel: Indicates that multiple instances of the task will occur in parallel

Sequential: Indicates that multiple instances of the activity will happen all at once.

Ad Hoc: Signifes that the sub-process does not have a formal sequence and can contain multiple embedded activities. executed in any order.

Events Distinct actions that shape the fow of a process, acting as the dvnamic turning

SpifWorkfow currently does not support non-interrupting start events.

Start Intermediate End Sub-Process Sub-Process Mid-Process Boundary Event Boundary Event Mid-Process End Process itart Process ()→ ► 0 ≁⊙≁ 0 ∕)→ ି≻ Catching Catching Catching Catching Throwing Throwing Non-Non-Interrupting None nterrupting None Interrupting Interrupting Interrupting (\square) (\square) (\square) Message \bigcirc 0 B(3) (\mathfrak{B}) \bigcirc Timer Conditional (\triangle) (\triangle) (\bigtriangleup) (\bigtriangleup) (\bigtriangleup) Signal (\mathbb{A}) \wedge Escalation \odot (\aleph) Error \bigcirc Terminate

Gateways

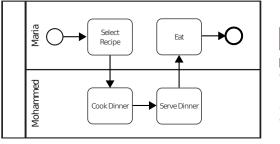
Gateways are a decision node that enables one to choose between diferent paths based on certain conditions or events.

	Symbol	Outgoing Sequence	Rule	Default fow
Exclusive (XOR)	\otimes	↔	Only one outgoing sequence flow that meets the condition	$\overset{\text{(x)}}{} \overset{\text{(x)}}{}$
Inclusive (OR)	\Diamond	$\stackrel{\uparrow}{\diamondsuit} \rightarrow$	All outgoing sequence flows that meet the conditions	$ \bigoplus_{i \to i} $
Parallel (AND)	(\mathbf{A})	$\bigoplus_{i=1}^{i}$	All outgoing sequence flows	NA
Event-Based			All outgoing sequence fows where event is triggered	NA



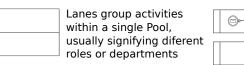
Pools and Lanes

Pools and lanes organize and clarify roles and responsibilities.



Expanded Pool \bigcirc my other process **Empty Pool**

When communicating between process models using messages, an empty pool can be used to clarify what process is being called.



Tasks can be connected across seperate pools. Pools can only be connected with message flows.

Data

Information is generated as a process progresses. By default, SpiffWorkflow copies the data from one task to the next.

Data Obiect

Data that is only accessible to connected tasks. They are shared,

rathen than copied between tasks.

Data Store

Data that is accessible across many process instances. It exists outside the process.

Data Input

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 \square Defines the accepted arguments to a process. If present, it restricts the data passed into a Call Activity.

Data Output

- Figure 3. If present, only the data named in Data Outputs will be returned by a
- Call Activity.

Connectors

Connectors generally refer to the elements that establish the fow and relationships between diferent BPMN elements

	Symbol	Rule	Use
Normal sequence fow		Standard Path. Shows the order in which activities will be performed in a process.	\hookrightarrow
Conditional sequence fow	$\diamond \rightarrow$	Used to indicate that the fow will be taken only if a specifc condition is met.	$ \underset{\bullet}{\longrightarrow} $
Default sequence fow	\rightarrow	The Default Path. Taken if no other paths are valid.	$\diamondsuit \!$
Message fow	o⊅	Depicts communication between two separate participants (see pools above) using messages.	
Association	\rightarrow	Used to associate artifacts (like data, text, or annotations) with fow objects.	