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Manual:Extension/Workflows/Activity

Workflow activities that currently can be included in a workflow:

- [ApprovePage](#)
- [CustomForm](#)
- [EditPage](#)
- [EditRequest](#)
- [GroupVote](#)
- [SendMail](#)
- [SetTemplateParams](#)
- [UserVote](#)

Manual:Extension/Workflows/Activity/ApprovePage

Description

The ApprovePage activity will set the status of a page from *draft* to *approved* status. Flagging will be done with a special user-context to avoid permission errors. This activity can only be used with pages that have the approval feature ([FlaggedRevs](#)) enabled.

Short profile	
Name	ApprovePage
Async	Yes
BPMN type	<code>bpmn:Task</code>
BPMN Extension Element "wf:type"	<code>approve_revision</code>

Properties

Name of property	Description	Type
<div>comment</div>	The comment to be saved with the approval	string
<div>revision</div>	The revision ID to approve. If not provided explicitly, the page revision of the workflow context will be used, which may be outdated.	int

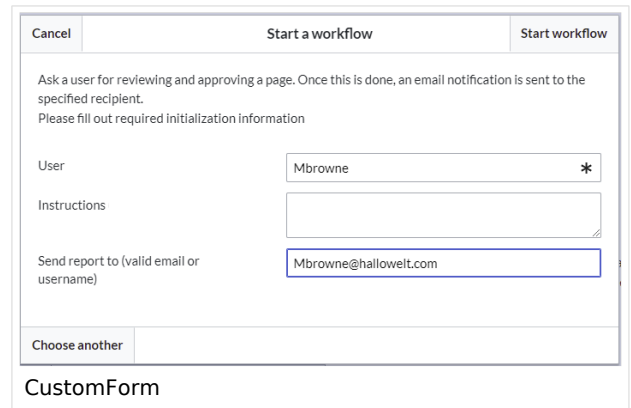
Manual:Extension/Workflows/Activity/CustomForm

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Description

The *CustomForm* activity is a generic activity, which is based on a custom form. It collects data for the corresponding workflow, which shall be executed. Therefore, the input fields depend on the type of workflow, which is chosen by the user. In general, the data is always the same and differs only in relation to the particular workflow and the number of users required. The *CustomForm* activity mostly include blank values, which can also be inserted by default. This is related to the metadata maintenance associated with the use of wikitext.



Short profile	
Name	CustomForm
Async	No
Input/form	<i>Input depends on the workflow type, but in general:</i> <ul style="list-style-type: none">• User picker / Group picker• Textfield for comments• Textfield for mail / username• ...
BPMN Element	bpmn:userTask
BPMN Extension Element "wf: type"	custom_form

Extension elements

Name of extension element	Description	Type
formModule		element
formModule/module	ResourceLoader module to be loaded	string
formModule/class	Form definition class to be shown	string

Example

```
<bpmn:extensionElements>
  <wf:type>custom_form</wf:type>
  <wf:formModule>
    <wf:module>my.custom.form</wf:module>
    <wf:class>MyCustomForm</wf:class>
  </wf:formModule>
</bpmn:extensionElements>
```

This would load the ResourceLoader module called `my.custom.form` and expect it to have a JavaScript class `MyCustomForm` be implemented. Such a RL module may be provided by an extension, or a [custom gadget](#).

Properties

Name of property	Source	Description	Type
<code>due_date</code>	UIActivity	Due date for task completion	date/timestamp

Each field provided by the form specified in `formModule/class` needs to be listed as a property with a default value.

Example

If the form specified in `<wf:class>` looks like this

```
MyCustomForm = function( cfg, activity ) {
    MyCustomForm.parent.call( this, cfg, activity );
};

OO.inheritClass( MyCustomForm, workflows.object.form.Form );

MyCustomForm.prototype.getDefinitionItems = function() {
    return [
        {
            name: 'username',
            label: "Username",
            type: 'user_picker',
            required: true
        },
        {
            name: 'comment',
            label: 'Comment'
            type: 'wikitext',
        }
    ];
};
```

the properties can look like this

```
<bpmn:property name="username" />
<bpmn:property name="comment" default="Some default comment text" />
```

Given the activities `id` specified in the `<bpmn:userTask>` element was `"CollectData"`, connected activities would be able to access the output data in their respective properties like this:

```
<bpmn:task id="SomeActivity">
...
<bpmn:property name="user" default="{{{CollectData.username}}}"></bpmn:property>
<bpmn:property name="intro" default="{{{CollectData.comment}}}"></bpmn:property>
...
```

Manual:Extension/Workflows/Activity/EditPage

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Description

The *EditWikiPage* activity appends content to an existing wiki page.

Short profile	
Name	EditWikiPage
Async	Yes
BPMN type	bpmn:Task
BPMN Extension Element "wf:type"	edit_page

Properties

Input properties

Each input property can provide a default value if no other value is set by the workflow.

Name of property	Description	Possible values	Type
title	Name of the wiki page that will be edited by this activity.		string
user	Name of user that will be shown as making the edit.	Default value: <i>MediaWiki default</i>	string
content	Content that will be added to the wiki page.		string
mode	How the content is added to the wiki page.	<ul style="list-style-type: none"><i>append</i>: Content is added at the end of the page.<i>replace</i>: Content replaces all existing page content.<i>prepend</i>: Content is added at the beginning of the page.	string
minor	The edit will be marked as <i>major</i> or <i>minor</i> revision.	<ul style="list-style-type: none"><i>1</i> (=minor revision)<i>0</i> (=major revision)	int

Output properties

Name of property	Description	Type
revisionId	The revision ID of the edited page.	string
timestamp	The revision time of the edited page.	timestamp

Element

```
<bpmn:task id="Activity_18egh9o" name="Edit page">
  <bpmn:extensionElements>
    <wf:type>edit_page</wf:type>
  </bpmn:extensionElements>
  <bpmn:property name="title" default="Some page" validation="required"/>
  <bpmn:property name="user" default="Mediawiki default" validation="existing-
user"/>
  <bpmn:property name="content" default="This is my test at editing"/>
  <bpmn:property name="mode" default="append"/> <!-- Allowed: append, replace,
prepend -->
  <bpmn:property name="minor" default="1"/>
  <!-- Output properties -->
  <bpmn:property name="revisionId"/>
  <bpmn:property name="timestamp"/>
</bpmn:task>
```

Example

In this example, when the workflow runs on any wikipage, The page Testpage1 is appended with the text `<username of initiator> read the page.`

```
<?xml version="1.0" encoding="UTF-8"?>
<bpmn:definitions xmlns:bpmn="http://www.omg.org/spec/BPMN/20100524/MODEL" xmlns:wf="ht
tp://hallowelt.com/schema/bpmn/wf">
  <bpmn:process id="EditWikiPage-Workflow" isExecutable="false">
    <bpmn:extensionElements>
      <wf:context>
        <wf:contextItem name="pageId"/>
      </wf:context>
    </bpmn:extensionElements>
    <bpmn:startEvent id="TheStart">
      <bpmn:outgoing>FromTheStartToEditWikiPage</bpmn:outgoing>
    </bpmn:startEvent>
    <bpmn:sequenceFlow id="FromTheStartToEditWikiPage" sourceRef="TheStart" targetR
ef="EditWikiPage" />
    <bpmn:task id="EditWikiPage" name="Edit page">
      <bpmn:extensionElements>
        <wf:type>edit_page</wf:type>
      </bpmn:extensionElements>
      <bpmn:property name="title" default="Testpage1" validation="required"/>
      <bpmn:property name="user" default="{{{initiator}}}" validation="existing-user"
/>
      <bpmn:property name="content" default="{{{initiator}}} read the page"/>
      <bpmn:property name="mode" default="append"/> <!-- Allowed: append, replace,
prepend -->
      <bpmn:property name="minor" default="0"/>
      <!-- Output properties -->
      <bpmn:property name="revisionId"/>
    </bpmn:task>
  </bpmn:process>
</bpmn:definitions>
```

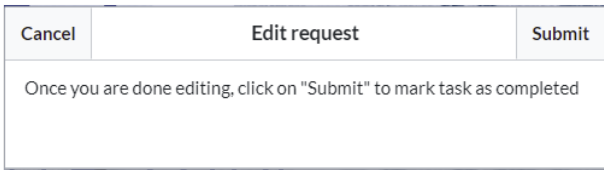


```
<bpmn:property name="timestamp"/>
<bpmn:incoming>FromTheStartToEditWikiPage</bpmn:incoming>
<bpmn:outgoing>FromEditWikiPageToTheEnd</bpmn:outgoing>
</bpmn:task>
<bpmn:sequenceFlow id="FromEditWikiPageToTheEnd" sourceRef="EditWikiPage" targetRef="TheEnd" />
<bpmn:endEvent id="TheEnd">
  <bpmn:incoming>FromEditWikiPageToTheEnd</bpmn:incoming>
</bpmn:endEvent>
</bpmn:process>
</bpmn:definitions>
```

Manual:Extension/Workflows/Activity/EditRequest

Description

The *EditRequest* activity asks a specified user to edit a page where a workflow is currently running. This activity consists of a form that simply provides information about editing the corresponding page and then submitting the change.



EditRequest dialog

Short profile	
Name	EditRequest
Async	No
BPMN type	bpmn:userTask
BPMN Extension Element "wf:type"	edit_request

Properties

Name of property	Source	Description	Type
due_date	UIActivity	Due date for task completion	date /timestamp
		Name of the user that should edit a page. Can be	

Name of property	Source	Description	Type
<code>assigned_user</code>	UIActivity	plain username (e.g. "WikiSysop") or user page ("User:WikiSysop"); Support for User-ID is not required	string
<code>instructions</code>	InstructedActivity	Text that is shown to the user, so he knows what to do; visible in the UI / form but is optional	string

Manual:Extension/Workflows/Activity/GroupVote

Description

The activity *GroupVote* is responsible for collecting necessary data about the voting of a group on a special topic. Unlike the [UserVote](#), it is not possible to delegate the task. A user that is part of a group can accept or decline a vote and also leave a comment that justifies their decision. The voting result is determined by whatever threshold has been reached first and ends the activity.

Short profile	
Name	GroupVote
Async	No
BPMN type	<code>bpmn:userTask</code>
BPMN Extension Element "wf:type"	<code>group_vote</code>

Properties

Name of property	Description	Type
<code>due_date</code>	Due date for task completion	date /timestamp
<code>assigned_group</code>	Name of the user group that should vote; can be plain grouname as used in the DB (e.g. "sysop")	string

Name of property	Description	Type
instructions	Text that is shown to the group of user, so they know what to vote about	string
users_voted	<p>Not to be set in the workflow definition. Used to store data during the activities life cycle. E.g.</p> <pre>[{ "userName": "UserA", "vote": "yes", "comment": "Good" }, { "userName": "UserB", "vote": "no", "comment": "Not good" }]</pre> <p>Can be accessed by follow up activitites by e.g.</p> <pre>{{<GroupVoteActivityID>.0.userName}}</pre>	string
threshold_yes_unit	can be <code>user</code> or <code>percent</code> - absolute number of users required to a approve a page	user, percent
threshold_yes_value	number of users or percentage of users required to approve a page	
threshold_no_unit	can be <code>user</code> or <code>percent</code> - absolute number of users required to a reject a page	user, percent
threshold_no_value	number of users or percentage of users required to reject a page	

Full example

Once one of the thresholds is reached, the activity will be completed and a `<bpmn:exclusiveGateway>` (referenced by `<bpmn:outgoing>`) will be called. It will choose its outgoing `<bpmn:sequenceFlow>` by mapping its `name` to the "type" of the threshold that has been reached.

In this example, after the first user either voted yes or no, the workflow will simply reach the end point:

```
<?xml version="1.0" encoding="UTF-8"?>  
<bpmn:definitions xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:wf="http://hallowelt.com/schema/bpmn/wf" xmlns:bpmn="http://www.omg.org/spec/BPMN/20100524/MODEL" xmlns:bpmndi="http://www.omg.org/spec/BPMN/20100524/DI" xmlns:dc="http://www.omg.org/spec/DD/20100524/DC" xmlns:di="http://www.omg.org/spec/DD/20100524/DI" id="Definitions_lvrqlfw" targetNamespace="http://bpmn.io/schema/bpmn" exporter="bpmn-js (https://demo.bpmn.io)" exporterVersion="8.7.1">  
  <!-- Process part -->  
  <bpmn:process id="Group_Vote" isExecutable="false">  
    <bpmn:extensionElements>  
      <wf:context>  
        <wf:contextItem name="pageId"/>  
        <wf:contextItem name="revision"/>  
      </wf:context>  
    </bpmn:extensionElements>  
  </bpmn:process>  
</bpmn:definitions>
```

```
</bpmn:extensionElements>
<!-- StartEvent -->
<bpmn:startEvent id="TheStart">
  <bpmn:outgoing>FromTheStartToGroupVote</bpmn:outgoing>
</bpmn:startEvent>
<bpmn:sequenceFlow id="FromTheStartToGroupVote" sourceRef="TheStart" ta
rgetRef="GroupVote"/>
  <!-- Collect group vote -->
  <bpmn:userTask id="GroupVote" name="GroupVote">
    <bpmn:extensionElements>
      <wf:type>group_vote</wf:type>
    </bpmn:extensionElements>
    <bpmn:property name="assigned_group">QM-reviewer</bpmn:
property>
      <bpmn:property name="instructions">Please vote</bpmn:property>
      <bpmn:property name="comment"/>
      <bpmn:property name="vote">vote</bpmn:property>
      <bpmn:property name="users_voted"/>
      <bpmn:property name="due_date">{{#time:YmdHis|now + 7days}}<
/bpmn:property>

      <bpmn:property name="threshold_yes_unit">user</bpmn:property>
      <bpmn:property name="threshold_yes_value">1</bpmn:property>
      <bpmn:property name="threshold_no_unit">user</bpmn:property>
      <bpmn:property name="threshold_no_value">1</bpmn:property>

      <bpmn:incoming>FromtheStartToGroupVote</bpmn:incoming>
      <bpmn:outgoing>FromGroupVoteToGatewayGroupVote</bpmn:outgoing>
    </bpmn:userTask>
    <bpmn:sequenceFlow id="FromGroupVoteToGatewayGroupVote" sourceRef="Grou
pVote" targetRef="GatewayGroupVote"/>
    <!-- Check on voting -->
    <bpmn:exclusiveGateway id="GatewayGroupVote" name="GroupVote.vote">
      <bpmn:incoming>FromGroupVoteToGatewayGroupVote</bpmn:incoming>
      <bpmn:outgoing>FromGatewayGroupVoteToTheEndYes</bpmn:outgoing>
      <bpmn:outgoing>FromGatewayGroupVoteToTheEndNo</bpmn:outgoing>
    </bpmn:exclusiveGateway>
    <bpmn:sequenceFlow id="FromGatewayGroupVoteToTheEndYes" name="yes" sour
ceRef="GatewayGroupVote" targetRef="TheEnd"/>
    <bpmn:sequenceFlow id="FromGatewayGroupVoteToTheEndNo" name="no" source
Ref="GatewayGroupVote" targetRef="TheEnd"/>
    <!-- EndEvent -->
    <bpmn:endEvent id="TheEnd">
      <bpmn:incoming>FromGatewayGroupVoteToTheEndYes</bpmn:incoming>
      <bpmn:incoming>FromGatewayGroupVoteToTheEndNo</bpmn:incoming>
    </bpmn:endEvent>
  </bpmn:process>
</bpmn:definitions>
```

Manual:Extension/Workflows/Activity/SendMail

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Description

The *SendMail* activity is a very generic activity. It is meant to send a report via mail after an action has been completed. This could be done after voting, but may also concern other activities in future, for example.

Following a quick overview:

Short profile	
Name	SendMail
Async	No
Input/form	-
Associated to	Approval Workflows, Collect Feedback Workflows
BPMN type	bpmn:Task

Properties

Input

Name of property	Source	Description	Type	Action
assigned_user	UserVote	Name of the user, who casted the vote	string	collect
comment	UserVote	Comment of the user	string	collect
vote	UserVote	Result of the voting (values: YES, NO)	string	collect
reportrecipient	CollectData	Mailadress of the user who was specified to receive an email after the workflow is finished	string	collect
timestamp		Timestamp of the date when mail is sent	timestamp	display
timestamp		Timestamp of the voting	timestamp	display
username		Name of the user, who casted a vote	string	display
groupname		Name of the group, who casted a vote	string	display
vote		Result of the voting	boolean / string	display
comment		Comment of the user concerning a wikipage	string	display

Output

Name of property	Source	Description	Type	Action
subject	SendMail	Subject of the mail incl. corresponding wikipage affected by previous activity	string	display
body	SendMail	Standardized text in a mail, which includes <ul style="list-style-type: none">the name of the user who casted the votea comment, which was left by the userthe voting result	string	display

Extension elements

Name of extension element	Description	Type
type		

Manual:Extension/Workflows/Activity/SetTemplateParams

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Description

The *SetTemplateParams* activity allows automatic setting a template parameter on a wiki page.

- Templates are accessed by the order of appearance on the page, starting at 0. Non-existing templates are counted as links, so they do not count in this list.
- Parameters inside the template can be specified by their name or the index in case of non-named parameters.
- Index for non-named params starts at 1 (not 0!), as to be consistent with how template params are accessed in the template itself.
- Nested templates are currently not supported.

Profile

Short profile	
Name	SetTemplateParams
Async	Yes
BPMN type	bpmn:task
BPMN Extension Element "wf:type"	set_template_param

Properties

Name of property	Description	Type
title	Name of the page where the template parameter is changed. If it will be changed on the page where the workflow runs, the value is <code>{{FULLPAGENAME}}</code>	string
user	User that is shown in the revision history	user
template-index	Index of the template on the page (starting at 0)	number
template-param	Parameter to modify. This can be a string (in the case of a named parameter) or a number (in case of a non-named param; starting from 1, accessor for the parameter)	int string
value	New value of the parameter, set by the workflow	string
minor	Marks the revision as a minor edit if set to 1	boolean

Name of property	Description	Type
revisionId	Sets a new page revision ID	number
timestamp	Sets the page revision timestamp	timestamp
comment	Comment that is shown in the revision history	string

Example

Workflow task

This workflow task will set the value of the parameter `{{{status|not set}}}` to `Updated` on a page's first template.

```
<bpmn:task id="EditTemplate" name="Edit template">
  <bpmn:extensionElements>
    <wf:type>set_template_param</wf:type>
  </bpmn:extensionElements>
  <bpmn:property name="title" default="Testpage" validation="required,
existing-title"/>
  <bpmn:property name="user" default="WikiSysop" validation="existing-
user"/>
  <!-- Index of the template on page (starting from 0) -->
  <bpmn:property name="template-index" default="0"/>
  <!-- Param to modify. Can be a string in case of named params, or a
number, in case of non-named params (starting from 1, accessor for the param) -->
  <bpmn:property name="template-param" default="status"/>
  <!-- New value to set -->
  <bpmn:property name="value" default="Updated"/>
  <bpmn:property name="minor" default="0"/>

  <!-- Output properties -->
  <bpmn:property name="revisionId"/>
  <bpmn:property name="comment" default="Edited template param"/>
  <bpmn:property name="timestamp"/>
  <bpmn:incoming>Flow_lqh6vpl</bpmn:incoming>
  <bpmn:outgoing>Flow_0iflkyk</bpmn:outgoing>

</bpmn:task>
```

Template

The template content has the parameter `{{{status}}}`. At the time of writing this, the workflow produced an error if the parameter was wrapped in a `<div>` tag. Therefore, in the example below, the parameter is defined in a variable first. If the parameter is not in a `div` tag, using a variable is not necessary.

```
{{#vardefine:status|{{{status|not set}}}}
<div style="background:#fbfaef;">Page status: {{#var:status}}</div>
```

Full bpmn example

```
<?xml version="1.0" encoding="UTF-8"?>
<bpmn:definitions xmlns:bpmn="http://www.omg.org/spec/BPMN/20100524/MODEL" xmlns:wf="ht
tp://hallowelt.com/schema/bpmn/wf">
  <bpmn:process id="SetTemplateParams-Process" isExecutable="false">
    <bpmn:extensionElements>
      <wf:context>
        <wf:contextItem name="pageId"/>
      </wf:context>
    </bpmn:extensionElements>
    <bpmn:startEvent id="TheStart">
      <bpmn:outgoing>FromTheStartToEditTemplate</bpmn:outgoing>
    </bpmn:startEvent>
    <bpmn:sequenceFlow id="FromTheStartToEditTemplate" sourceRef="TheStart" targetR
ef="EditTemplate" />
    <bpmn:task id="EditTemplate" name="Edit template">
      <bpmn:extensionElements>
        <wf:type>set_template_param</wf:type>
      </bpmn:extensionElements>
      <bpmn:property name="title" default="" validation="required,existing-title"
>{{FULLPAGENAME}}</bpmn:property>
      <bpmn:property name="user" default="WikiSysop" validation="existing-user">W
ikiSysop</bpmn:property>
      <!-- Index of the template on page (starting from 0) -->
      <bpmn:property name="template-index" default="0"/>
      <!-- Param to modify. Can be a string in case of named params, or a
number, in case of non-named params (starting from 1, accessor for the param) -->
      <bpmn:property name="template-param" default="status"/>
      <!-- New value to set -->
      <bpmn:property name="value" default="Super edited param"/>
      <bpmn:property name="minor" default="1"/>
      <!-- Output properties -->
      <bpmn:property name="revisionId"/>
      <bpmn:property name="timestamp"/>
      <bpmn:incoming>FromTheStartToEditTemplate</bpmn:incoming>
      <bpmn:outgoing>FromEditTemplateToTheEnd</bpmn:outgoing>
    </bpmn:task>
    <bpmn:sequenceFlow id="FromEditTemplateToTheEnd" sourceRef="EditTemplate" targe
tRef="TheEnd" />
    <bpmn:endEvent id="TheEnd">
      <bpmn:incoming>FromEditTemplateToTheEnd</bpmn:incoming>
    </bpmn:endEvent>
  </bpmn:process>
</bpmn:definitions>
```

Manual:Extension/Workflows/Activity/UserVote

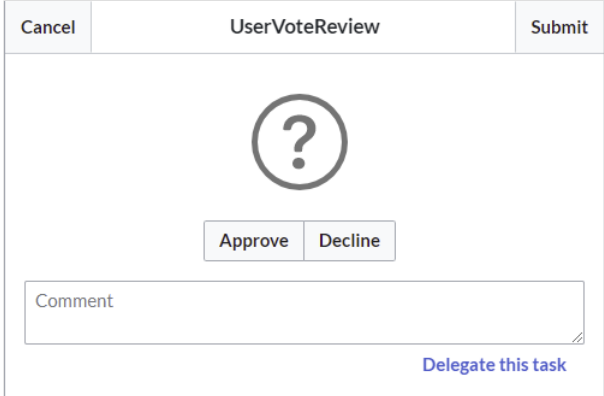
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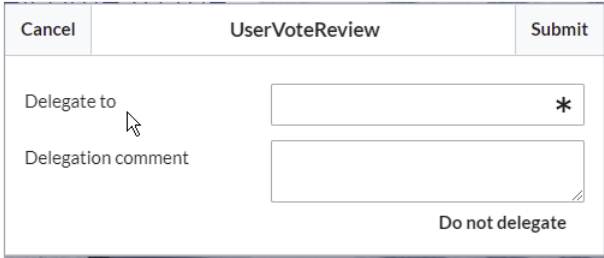
Description

The activity *UserVote* is responsible for collecting necessary data about the voting of a user on a special topic. The user who casts a vote has three options: accept, decline and delegate. If a user chooses "delegate", a dialog with a "UserPicker" must be provided. The chosen user must be notified and allowed to vote. The delegatee can re-delegate, but only to the primary user. A notification must be sent again. All delegation actions of the activity must be logged internally and be passed to the next activity.



The dialog titled "UserVoteReview" has a "Cancel" button on the left and a "Submit" button on the right. In the center, there is a large question mark icon. Below the icon are two buttons: "Approve" and "Decline". At the bottom, there is a text input field labeled "Comment" and a blue link labeled "Delegate this task".

Dialog for user voting



The dialog titled "UserVoteReview" has a "Cancel" button on the left and a "Submit" button on the right. It contains two input fields: "Delegate to" with a dropdown menu and an asterisk, and "Delegation comment" with a text area. At the bottom right, there is a "Do not delegate" link.

Dialog for delegating

Short profile	
Name	UserVote
Async	No
Input/form	<ul style="list-style-type: none">• Submit / Cancel button• Voting button (approve/decline)• Textfield for comments• Link for delegating the task<ul style="list-style-type: none">○ Userpicker○ Textfield for comments
Associated to	<ul style="list-style-type: none">• ApprovalWorkflows• FeedbackWorkflows
BPMN type	bpmn:userTask

Extension elements

Name of extension element	Description	Type
form	Name of a *.form page on the wiki	string

Properties

Input

Name of property	Source	Description	Type	Action
assigned_user	CollectData	Name of the user that should vote. Can be plain username (e.g. "WikiSysop") or user page ("User:WikiSysop"); Support for User-ID is not required	string	none
instructions	CollectData	Text that is shown to the user, so he knows what to vote about; visible in the UI / form	string	display
due_date	CollectData	Due date for task completion	date /timestamp	none
delegate_to	UserVote	Name of the delegated user, that should vote instead of the specified user	string	collect & display
delegate_comment	UserVote	Text that is shown to the delegated user, so he knows what to vote about; visible in the UI / form	string	collect & display

Output

Name of property	Source	Description	Type	Action
vote	UserVote	Result of the voting (values: YES, NO)	boolean /string	collect
comment	UserVote	Comment of the user	string	collect
timestamp	UserVote	Timestamp of the vote	timestamp	collect
revisionid	UserVote	Revision ID that was voted on	integer	collect