

# RunaWFE. Demo processes description

## Version 3.0

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## Login to Demo Application

1. Surf to <http://wfdemo.runa.ru/wfe/> <sup>[2]</sup>
2. Enter login and password

A list of accounts (logins are case sensitive ):

Login	Name
julius	Gaius Julius Caesar
nero	Nero Claudius Caesar
cleopatra	Cleopatra VII The Daughter of the Pharaoh
octavia	Octavia Minor
caligula	Gaius Iulius Germanicus
tiberius	Tiberius Claudius Drusus
marcus	Marcus Aurelius Antoninus
gaiua	Gaiua Flavius Valerius Constantinus
attila	Attila the King of Huns

All logins password is 123

A list of demo groups and group members:

Group	Members
manager	<ul style="list-style-type: none"><li>• julius</li><li>• nero</li></ul>
human resource	<ul style="list-style-type: none"><li>• cleopatra</li><li>• octavia</li></ul>
bookkeeper	<ul style="list-style-type: none"><li>• caligula</li><li>• tiberius</li></ul>
staff	<ul style="list-style-type: none"><li>• marcus</li><li>• gaiua</li><li>• attila</li></ul>
all	all groups and all users

Menu items:

- Tasks – allows to work with actors tasks
- Start process – allows to start business process, view permissions on business process definition, view the business process graph
- Started processes - allows to view process instance states and variables
- System – allows to manage system permissions (Not visible if permission denied)

- Executors – allows to manage executor permissions, manage executor properties

A list of demo processes:

- Hello World
- Overtime Work
- vacation
- Business Trip
- File Upload
- Report
- Text File Creation
- Timer
- MainProcesses with SubProcess
- MultiInstanceProcess with MultiInstanceSubProcess

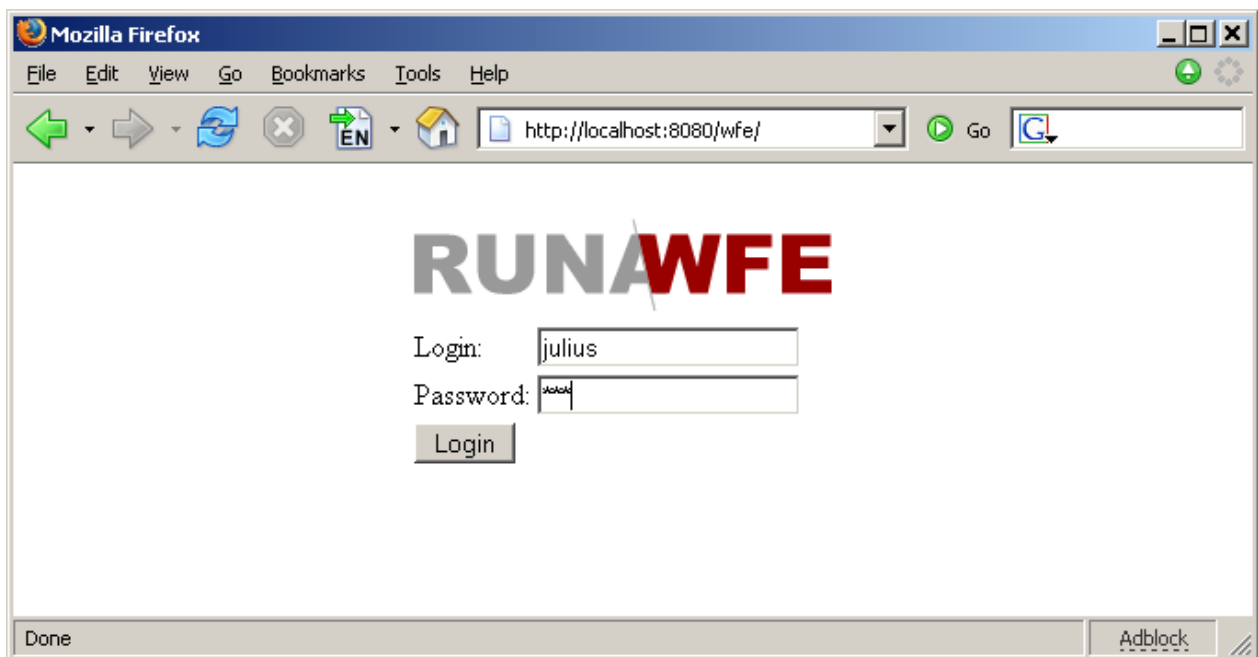
Notes:

Only managers (*julius*, *nero*) have the rights to start processes “over time work ” and “business trip ”.

All actors can start the process “vacation ”.

The boss of *gaiua* is *julius*, the boss of *marcus* and *attila* is *nero*. Organization function determines boss of the employee. This function is used in “vacation” process.

An example of login screen:



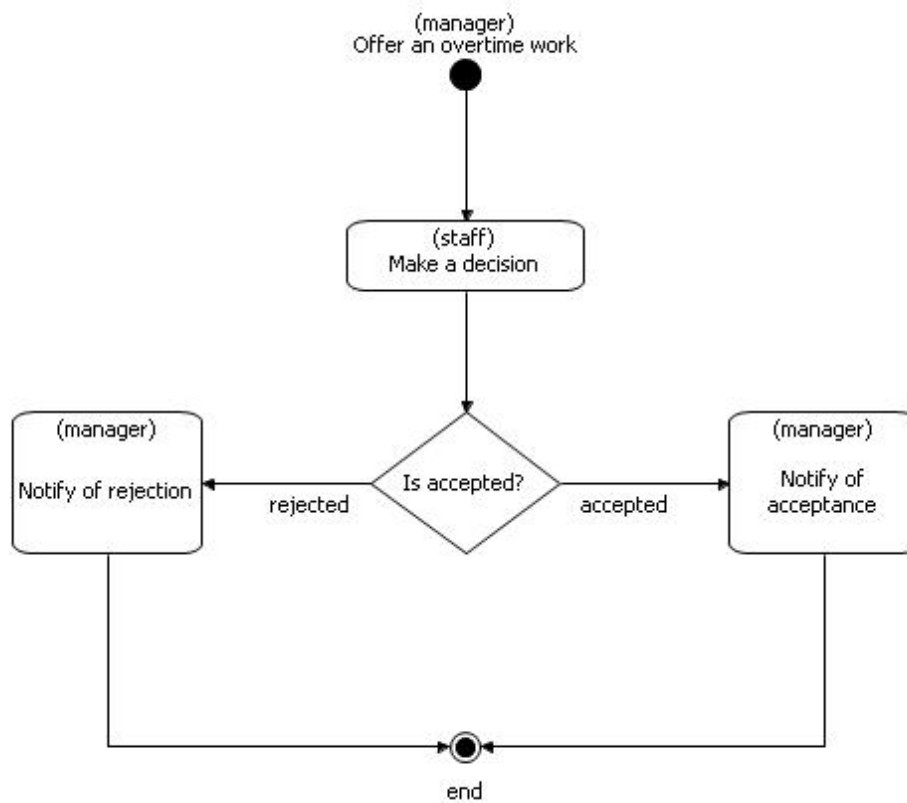
## Demo Processes

### Over time work

*Description:*


Manager asks the employee for overtime work. The employee accepts or declines the proposal. After that the manager receives the notification of acceptance or rejection.

*The business process graph:*



*How to play the business process:*

- Log in as member of manager group (e.g. Julius)
- Click menu item "Start process"
- Click "Overtime Work" to start the process


**RUNA WFE**  
 WORKFLOW SYSTEM

Logged as: *julius*  
[Logout](#)

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**Menu**  
[Task List](#)  
[Start process](#)  
[Started processes](#)  
[Executors](#)  
[System](#)  
  
[SOURCEFORGE.NET](#)  
**Feedback** email or forum


**Process Definitions**  
 View: Default

**Total:16**

	Start	Name	Description	Process type	
<input type="checkbox"/>		Hello World	This is the simplest process	Script	<a href="#">Properties</a>
<input type="checkbox"/>		BPMNdemo	BPMN demo process	Script	<a href="#">Properties</a>
<input type="checkbox"/>		ExecuteFormulaDemo	Example of ExecuteFormulaActionHandler using (no start form provided)	Script	<a href="#">Properties</a>
<input type="checkbox"/>		AjaxFormDemo	AJAX support demo	Script	<a href="#">Properties</a>
<input type="checkbox"/>		FileUpload	This is sample workflow process demonstrates work with file	Script	<a href="#">Properties</a>
<input type="checkbox"/>		TimerDemo	Demo for element timer (no start form provided)	Script	<a href="#">Properties</a>
<input type="checkbox"/>		Report	Example of a simple process. Participants of this process are members of manager and staff groups	Script	<a href="#">Properties</a>
<input type="checkbox"/>		<b>Overtime Work</b>	Participants of this process are members of manager and staff groups	Script	<a href="#">Properties</a>

Start form will appear.

- Choose an employee, which will receive proposal for an overtime work (e.g. Gaiua)
- Enter the time interval for the overtime work (e.g. 20.12.2005 22:30 - 20.12.2005 23:30)
- Fill the fields «reason» and «comment»


**RUNA WFE**  
 WORKFLOW SYSTEM

Logged as: *julius*  
[Logout](#)

---

**Menu**  
[Task List](#)  
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[SOURCEFORGE.NET](#)  
**Feedback** email or forum

**Start form**

### Offer an overtime work

Employee \*  
Since \*  
(dd.mm.yyyy)  
Till \*  
(dd.mm.yyyy)

Gaiua Flavius Valerius Constantinus

03.08.2010 17:17

Reason \*  
Comments

We need stuff

Important

Start

August, 2010

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
30							1
31	2	3	4	5	6	7	8
32	9	10	11	12	13	14	15
33	16	17	18	19	20	21	22
34	23	24	25	26	27	28	29
35	30	31					

Time: 17 : 18


[Select date](#)

- Click "Start"

The new instance of "Overtime Work" business process will be created and the employee (Gaiua) will receive task.

- Click "Logout"

- Log in as employee, selected on the start form (Gaiua).
- Click the “make a decision” task.



Logged as: *gaiua*  
Logout

**Menu**

- Task List
- Start process
- Started processes
- Executors
- System

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**Tasks**

► View Default ▼


**Total:1**

	Name	Description	Definition Name	Process Instance Id	Owner	Role	Deadline
<input checked="" type="checkbox"/>	Make a decision	Accept or decline the offering	Overtime Work	4436	gaiua	staff	

**Total:1**

Accept task

- Choose “accept” or “decline” (e.g. “accept”), fill the «comment» field and click «Task is done».



Logged as: *gaiua*  
Logout

**Menu**

- Task List
- Start process
- Started processes
- Executors
- System

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Feedback email or forum

**Task form**

	Name	Description	Definition Name	Process Instance Id	Owner	Role	Deadline
<input checked="" type="checkbox"/>	Make a decision	Accept or decline the offering	Overtime Work	4436	gaiua	staff	

Accept task

**Task form**

**Accept or decline the offering of overtime work**

Proposition

Manager	Gaius Julius Caesar
Employee (staff)	Gaiua Flavius Valerius Constantinus
Since	03.08.2010 17:17
Till	06.08.2010 17:23
Reason	We need stuff to be done
Comments	Important work

Your decision

Employee comments Ok.

☒ Accept    ☐ Reject

Task is done

- Logout
- Log in as the actor, which started the process (Julius)
- Click on task “Notify for acceptance”.



Logged as: *julius*  
Logout

Menu		Tasks																											
<a href="#">Task List</a> <a href="#">Start process</a> <a href="#">Started processes</a> <a href="#">Executors</a> <a href="#">System</a>		<a href="#">View</a> <span>Default</span>																											
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		<b>Total:1</b>																											
		<a href="#">Accept task</a>																											

- By clicking "Task is done" you'll finish the process.



Logged as: *julius*  
Logout

Menu		Task form																											
<a href="#">Task List</a> <a href="#">Start process</a> <a href="#">Started processes</a> <a href="#">Executors</a> <a href="#">System</a>		<table border="1"> <thead> <tr> <th></th> <th>Name</th> <th>Description</th> <th>Definition Name</th> <th>Owner</th> <th>Role</th> <th>Deadline</th> </tr> </thead> <tbody> <tr> <td colspan="7">Process Instance Id: 4436</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Notify of acceptance</td> <td>Notify that an overtime work is accepted</td> <td>Overtime Work</td> <td>julius</td> <td>manager</td> <td></td> </tr> </tbody> </table>								Name	Description	Definition Name	Owner	Role	Deadline	Process Instance Id: 4436							<input checked="" type="checkbox"/>	Notify of acceptance	Notify that an overtime work is accepted	Overtime Work	julius	manager	
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Process Instance Id: 4436																													
<input checked="" type="checkbox"/>	Notify of acceptance	Notify that an overtime work is accepted	Overtime Work	julius	manager																								
		<a href="#">Accept task</a>																											

Task form	
<b>Overtime work - accepted</b>	
Manager	Gaius Julius Caesar
Employee (staff)	Gaius Flavius Valerius Constantinus
Since	03.08.2010 17:17
Till	06.08.2010 17:23
Reason	We need stuff to be done
Comments	Important work
Employee comments	ok

[Task is done](#)

*Note.* To monitor process click on "Started processes" menu item



Logged as: *julius*  
Logout

### Menu

Task List  
Start process  
Started processes  
Executors  
System

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### Started processes

View

1 2 3 4 5 6 7 8 9 10 11 > >

Total:852

Name	Id	Started ↕	Ended	Version
Overtime Work	4436	13.08.2010 17:24	13.08.2010 17:36	1
SubProcess	4435	13.08.2010 16:17	13.08.2010 16:28	1
MainProcess	4434	13.08.2010 16:17	13.08.2010 17:29	1
SubProcess	4433	13.08.2010 15:47	13.08.2010 15:47	1
MainProcess	4432	13.08.2010 15:47	13.08.2010 15:47	1
Businessstrip	4431	13.08.2010 14:58	13.08.2010 16:58	1
Report	4430	13.08.2010 14:31	13.08.2010 16:31	1
ExecuteFormulaDemo	4429	13.08.2010 14:30	13.08.2010 16:30	1
TimerDemo	4428	13.08.2010 13:56	13.08.2010 15:56	1
Hello World	4427	13.08.2010 13:46	13.08.2010 13:46	1

1 2 3 4 5 6 7 8 9 10 11 > >

Total:852

and then click on instance



### Menu

Task List  
Start process  
Started processes  
Executors  
System

SOURCEFORGE.NET

Feedback email or forum

### Process Instance

Name	Overtime Work
Id	4436
Version	1
Started	13.08.2010 17:24
Ended	13.08.2010 17:36

### Active tasks

State	Executor
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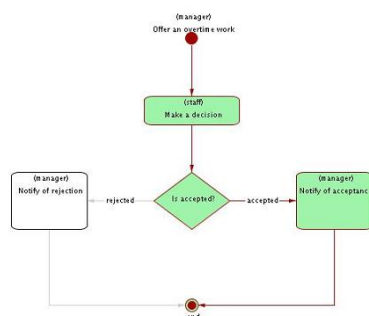
### Process Roles

Name	Executor	Organization Function
staff	gaius	value is unset
manager	julius	value is unset

### Process Variables

Name	Value
since	2010-08-03 17:17:00.0
till	2010-08-06 17:23:00.0
reason	We need stuff to be done
comment	Important work
staff person comment	ok
staffPersonDecision	true

### Process Graph



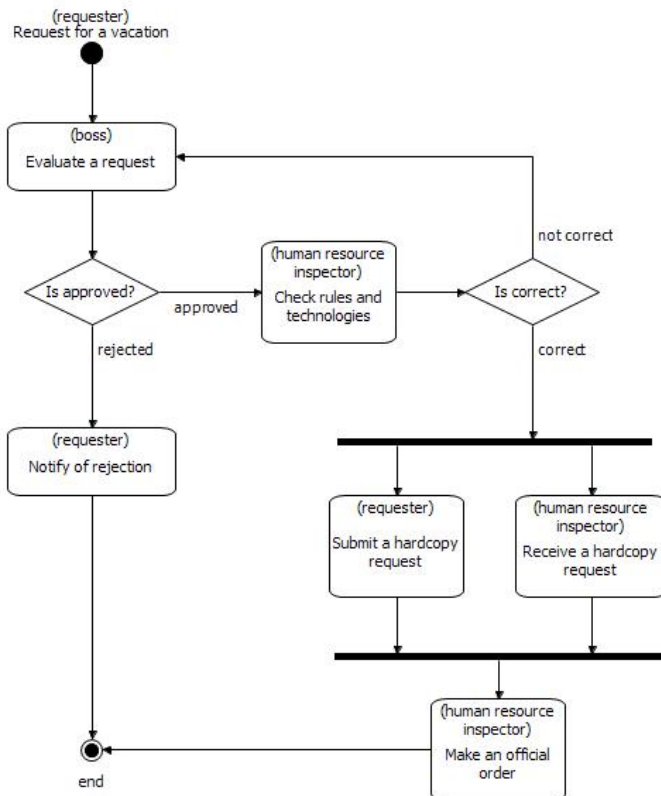
## Vacation

### Description:

An employee requests for vacation. The boss accepts or declines the request. If the request is rejected, the employee receives notification and business process ends. If the request is approved, the human resource inspectors receives task “check rules and technologies”. Human resource inspector checks business process data. If check result is negative, the business process returns to the “evaluate a request” state (the loop example). Boss accepts or declines the request. If the check result is positive, the business process sends task for hardcopy request submission and official order issuing. Employee receives task “submit the written request for a vacation to the human resource department”, the human resource inspector receives task “receive a written request from employee” concurrently. Upon completion the task the human resource inspector receives next task “make an official order”. After all these tasks are done, the business process ends.

*Note.* Organization function determines boss for every actor. Actors with login names starting with “g” have boss *julius*, the others – *nero*.

### The business process graph:



### How to play the business process:

- Log in as member of *staff* group (e.g. *Marcus*)
- Click on the menu item “Start process”
- Click “Start” for “Vacation”
- Start form will appeared. In this form:
- Enter the time interval for the vacation
- Fill the fields «reason» and «comment»
- Click “Start”

The new instance of “Vacation” business process will start and boss will receive the “evaluate a request” task. The boss of *Marcus* is *Nero*



- Click “Logout”
- Login as *Nero*
- Click on “evaluate a request” task
- Choose “accept”, fill the «boss comment» and click «Task is done»
- Click “Logout”
- Login as member of the “human resource” group. (*Cleopatra*)
- Click “check rules and technologies” task
- Choose “correct”, fill the “human resource inspector comment” and click “Task is done”
- Click on “Receive a written request” task
- Click “Task is done”
- Login as *Marcus*. Click on “Submit a written request” task and then click “Task is done”
- Login as *Cleopatra*. Click on “Make an official order” task.
- The form will appeared. In this form:
- Fill the “Official order number” field
- Fill the “Official order date” field
- Click “Task is done”

The business process ends.

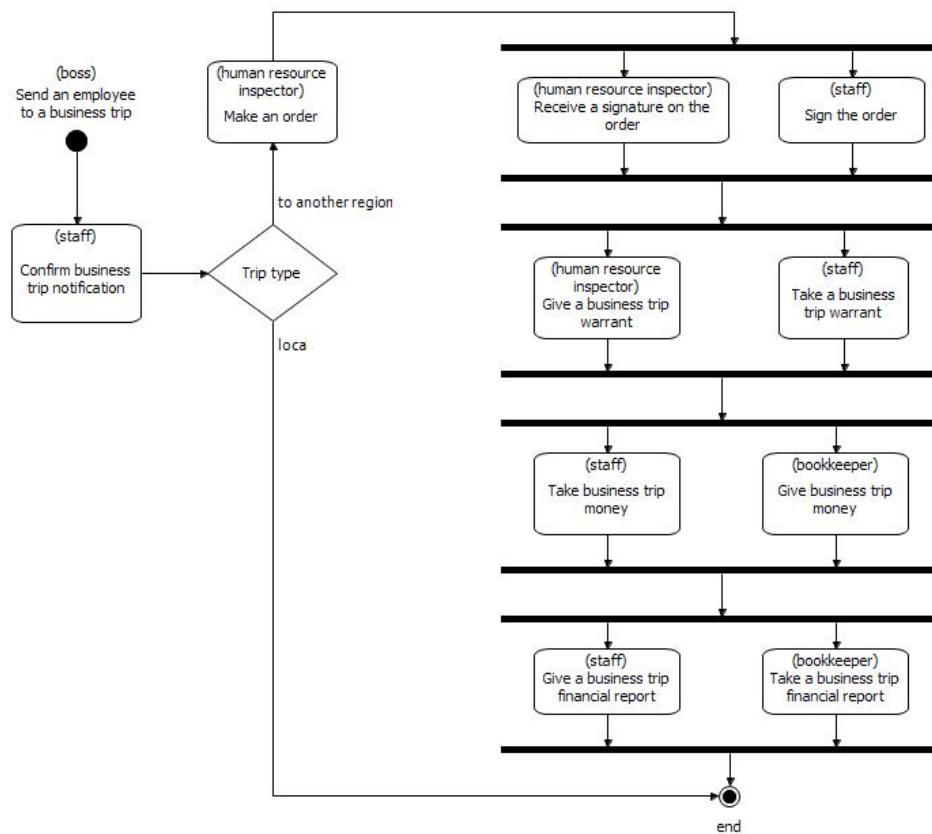
## Business trip

*Note.* This process is quite complex. This documentation contains only short description and the business process graph.

*A short description:*

A manager sends an employee to a business trip. The employee receives notification. If the business trip is local, the business process ends. If business trip type is “to another region”, a human resource inspector receives task “make an official order”. The employee receives task “sign an order” and human resource inspector receives a task “receive a signature on the order” concurrently. Employee receives task “receive a business trip warrant” and inspector receives a task “give a business trip warrant”. Bookkeeper issues and employee receives the business trip money. After employee returns from the business trip, employee submits and bookkeeper receives the business trip financial report. The business process ends.

*The business process graph:*

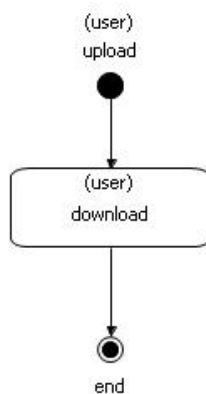


## Upload a file

*A short description:*

In the start form of the process the user uploads a file. Then in the first task of this business process a user downloads the uploaded file.

*The business process graph:*



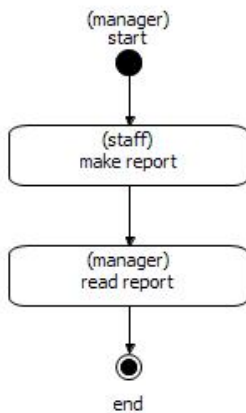
*Running business process:*

- Login as user that is in manager group (e.g. *Julius*)
- Click on "Start process" menu item
- Find "UploadFile" process in the list and click the name of the process
- In the start form browse the uploading file and click "Start" button
- The business process will start and a new task will appear on the *Julius* task list
- Open the task. If you click the file name in the task form, you will trigger the file download.
- Click "Task is done" to finish the process.

## Report

*A short description:* A manager asks to prepare a report. One of the employees prepares it and the manager reads it.

*The business process graph:*

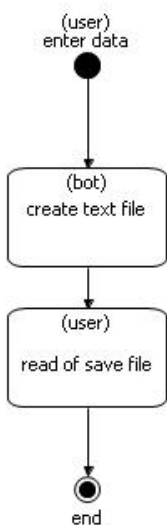


*Running business process:*

- Login as user that is in manager group (e.g. *Julius*)
- Click on "Start process" menu item
- Find "Report" process in the list and click the name of the process
- In the start form type the theme of the report
- The business process will start and all the *staff* group members will receive a new task
- Login as staff member (e.g. *Marcus*)
- Open the task "make report". In the task form enter report text and then press "Task is done" button
- Login as *Julius*. Open the task "read report".
- Click "Task is done" to finish the process.

## Text File Creation

*A short description:* A user inputs text information. A bot creates a text file with it. The user reads or saves the file on the disk. *The business process graph:*



*Running business process:*

- Login as user that is in manager group (e.g. *Julius*)

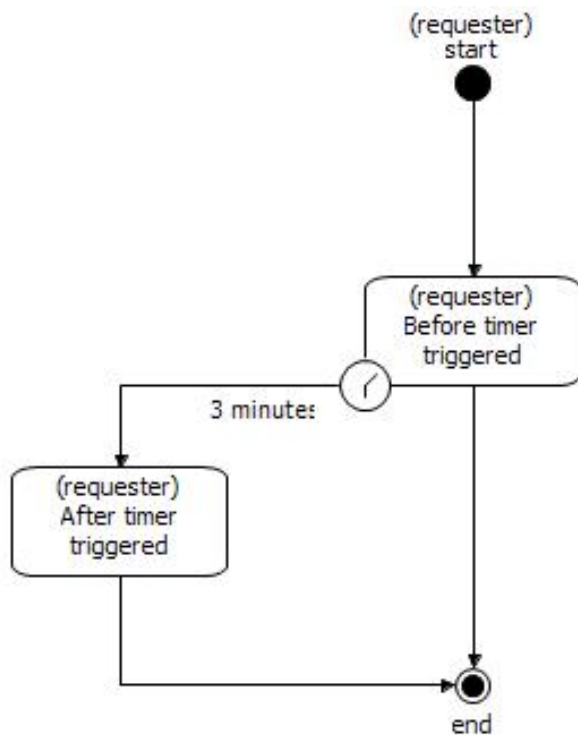
- Click on "Start process" menu item
- Find "TextFileCreation" process in the list and click the name of the process
- In the start form enter the parameters and text. Click "Start" button
- Click the "tasks" menu. Open the task "read or save file". Read or save file.
- Click "Task is done" to finish the process

## TimerDemo

*A short description:*

To add a timer to a state you need to add a timer element to a state in the graphical process designer. A user runs the process, the control goes to "before timer triggered" state. If the user completes the task in 3 minutes period, the process will end, else the control will come to "after timer triggered" state.

*The business process graph:*



*Running business process:*

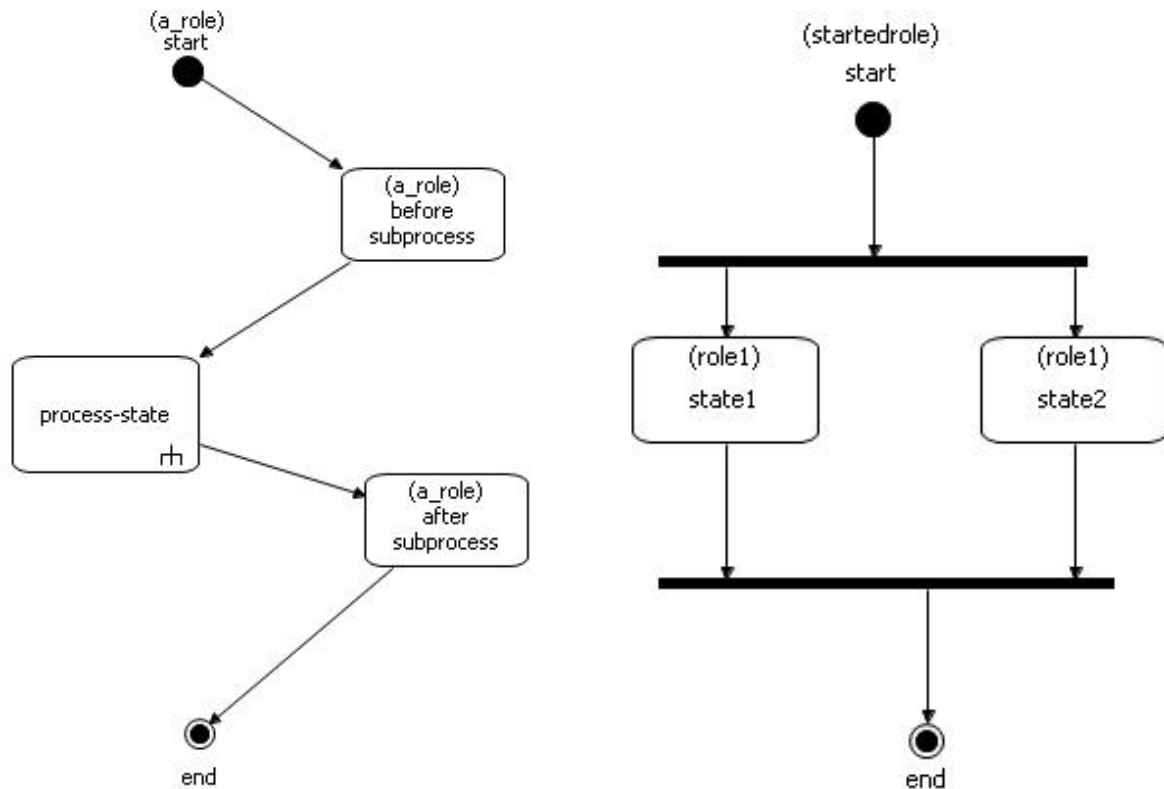
- Login as user that is in manager group (e.g. *Julius*)
- Click on "Start process" menu item
- Find "TimerDemo" process in the list and click the name of the process. The process will start.
- "Before timer trigger" task will appear in the task list. After 3 minutes, it will disappear and "After timer trigger" will be in the list instead.
- Open the "After timer trigger" and click "Task is done" to finish the process

## MainProcess with SubProcess

Any process may be included into other process as its subprocess. A subprocess can be independent (that means it can be run without parent processes) or dependent from its parent (that means it cannot exist without parent context). One and the same subprocess may be included into several different processes.

There's a subprocess element in graphical process designer to manage subprocess in the process graph. See Graphical Process Designer User Guide for details.

An example of MainProcess (left) and SubProcess (right) graphs:



- Login as user that is in manager group (e.g. *Julius*)
- Click on "Start process" menu item
- Find "MainProcess" process in the list and click the name of the process. The process will start.
- On the "before subprocess" task form click "Task is done"
- Find tasks that belong to the MainProcess instance in the task list. In fact these tasks belong to subprocess SubProcess, but in the "Process Definition" column you will see the name of the parent process. Do the subprocess tasks by opening them and clicking "Task is done" button. Then do the last parent process task "after subprocess". The process will be over.
- If you want to view the process properties, go to "Started processes". Open just finished MainProcess instance. On the process graph click on the subprocess state and the page with subprocess instance properties will appear.

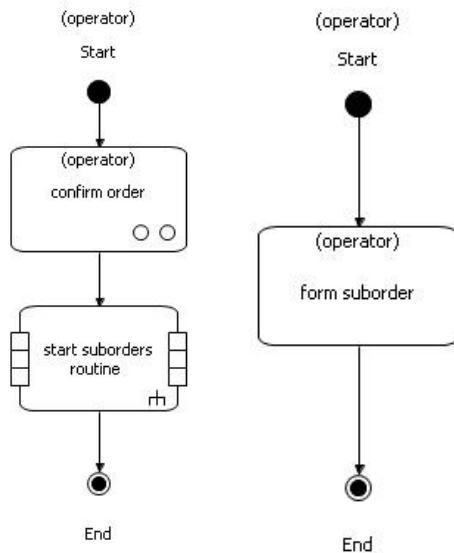
## MultiInstanceProcess with MultiInstanceSubProcess

In case when it's necessary to perform one and the same actions sequence with a list of variable values a multi-instance subprocess is created. For every such process instance the number of multi-instance subprocess instances started will much the number of values in the multi-instance variable list. For example, the customer has several addresses and it's necessary to form a delivery suborder to each address in one order context. The multi-instance variable will contain the list of customer addresses. The number of multi-instance subprocesses started from the parent process instance will be equal to the number of customer addresses in the list. Each

subprocess will contain a variable with one of the addresses. The type of multi-instance variable in the parent process must be StringArray, in the subprocess it is String.

See Graphic Process Designer User Guide for information on how to create multi-instance subprocess on the graph and map variables.

An example of MultiInstanceProcess (left) and MultiInstanceSubProcess (right) graphs:



- Login as user that is in manager group (e.g. *Julius*)
- Click on "Start process" menu item
- Find "MultiInstanceProcess" process in the list and click the name of the process.
- Choose the number of customer addresses (that is the number of subprocesses to start) on the start form and click "Start".
- Open the "confirm order" task form from the task list and click "Task is done"
- To see the started subprocess and its properties, go to "Started processes" and open one of MultiInstanceSubProcess instances. Check out the address variable value. Then open another instance of MultiInstanceSubProcess and check out the address value there. The list of all addresses can be found in MultiInstanceProcess instance variable.
- Go to the task list and "form an order" for each subprocess.
- The process is finished.
- Find tasks that belong to the MainProcess instance in the task list. In fact these tasks belong to subprocess SubProcess, but in the "Process Definition" column you will see the name of the parent process. Do the subprocess tasks by opening them and clicking "Task is done" button. Then do the last parent process task "after subprocess". The process will be over.
- If you want to view the process properties, go to "Started processes". Open just finished MainProcess instance. On the process graph click on the subprocess state and the page with subprocess instance properties will appear.

## References

- [1] <http://www.gnu.org/licenses/lgpl.html>
- [2] <http://localhost:8080/wfe>

# Article Sources and Contributors

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**Image:WF-system\_Demo\_description\_ris11.jpg** *Source:* [http://wf.runa.ru/doc/index.php?title=File:WF-system\\_Demo\\_description\\_ris11.jpg](http://wf.runa.ru/doc/index.php?title=File:WF-system_Demo_description_ris11.jpg) *License:* unknown *Contributors:* WikiSysop

**Image:WF-system\_Demo\_description\_ris12.jpg** *Source:* [http://wf.runa.ru/doc/index.php?title=File:WF-system\\_Demo\\_description\\_ris12.jpg](http://wf.runa.ru/doc/index.php?title=File:WF-system_Demo_description_ris12.jpg) *License:* unknown *Contributors:* WikiSysop

**Image:WF-system\_Demo\_description\_ris13.jpg** *Source:* [http://wf.runa.ru/doc/index.php?title=File:WF-system\\_Demo\\_description\\_ris13.jpg](http://wf.runa.ru/doc/index.php?title=File:WF-system_Demo_description_ris13.jpg) *License:* unknown *Contributors:* WikiSysop

**Image:WF-system\_Demo\_description\_ris14.jpg** *Source:* [http://wf.runa.ru/doc/index.php?title=File:WF-system\\_Demo\\_description\\_ris14.jpg](http://wf.runa.ru/doc/index.php?title=File:WF-system_Demo_description_ris14.jpg) *License:* unknown *Contributors:* WikiSysop

**Image:WF-system\_Demo\_description\_ris15.jpg** *Source:* [http://wf.runa.ru/doc/index.php?title=File:WF-system\\_Demo\\_description\\_ris15.jpg](http://wf.runa.ru/doc/index.php?title=File:WF-system_Demo_description_ris15.jpg) *License:* unknown *Contributors:* WikiSysop

**Image:WF-system\_Demo\_description\_ris16.jpg** *Source:* [http://wf.runa.ru/doc/index.php?title=File:WF-system\\_Demo\\_description\\_ris16.jpg](http://wf.runa.ru/doc/index.php?title=File:WF-system_Demo_description_ris16.jpg) *License:* unknown *Contributors:* WikiSysop

**Image:WF-system\_Demo\_description\_ris27\_2.jpg** *Source:* [http://wf.runa.ru/doc/index.php?title=File:WF-system\\_Demo\\_description\\_ris27\\_2.jpg](http://wf.runa.ru/doc/index.php?title=File:WF-system_Demo_description_ris27_2.jpg) *License:* unknown *Contributors:* WikiSysop

**Image:WF-system\_Demo\_description\_ris27\_3.jpg** *Source:* [http://wf.runa.ru/doc/index.php?title=File:WF-system\\_Demo\\_description\\_ris27\\_3.jpg](http://wf.runa.ru/doc/index.php?title=File:WF-system_Demo_description_ris27_3.jpg) *License:* unknown *Contributors:* WikiSysop

**Image:WF-system\_Demo\_description\_ris28.jpg** *Source:* [http://wf.runa.ru/doc/index.php?title=File:WF-system\\_Demo\\_description\\_ris28.jpg](http://wf.runa.ru/doc/index.php?title=File:WF-system_Demo_description_ris28.jpg) *License:* unknown *Contributors:* WikiSysop

**Image:WF-system\_Demo\_description\_ris29.jpg** *Source:* [http://wf.runa.ru/doc/index.php?title=File:WF-system\\_Demo\\_description\\_ris29.jpg](http://wf.runa.ru/doc/index.php?title=File:WF-system_Demo_description_ris29.jpg) *License:* unknown *Contributors:* WikiSysop