MONDO online demonstration

Prerequisites:

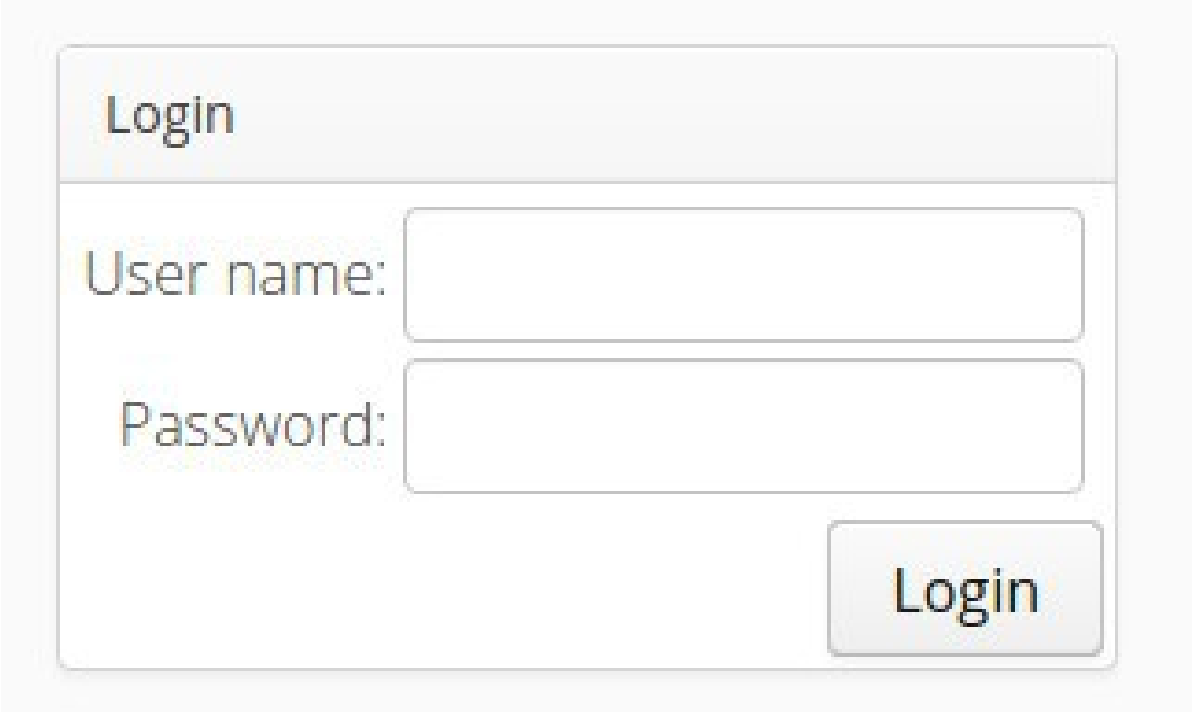
- org.mondo.collaboration.online.emfhandler.rest (the OSGi framework) is running with permissions to read/write disk (the hosting eclipse application is run as root/super user)

- glassfish server that is hosting org.mondo.collaboration.online.server and MondoOnlineCollaborationClient applications is running (with permissions to read/write disk, it shouldn't be required but just to be sure)

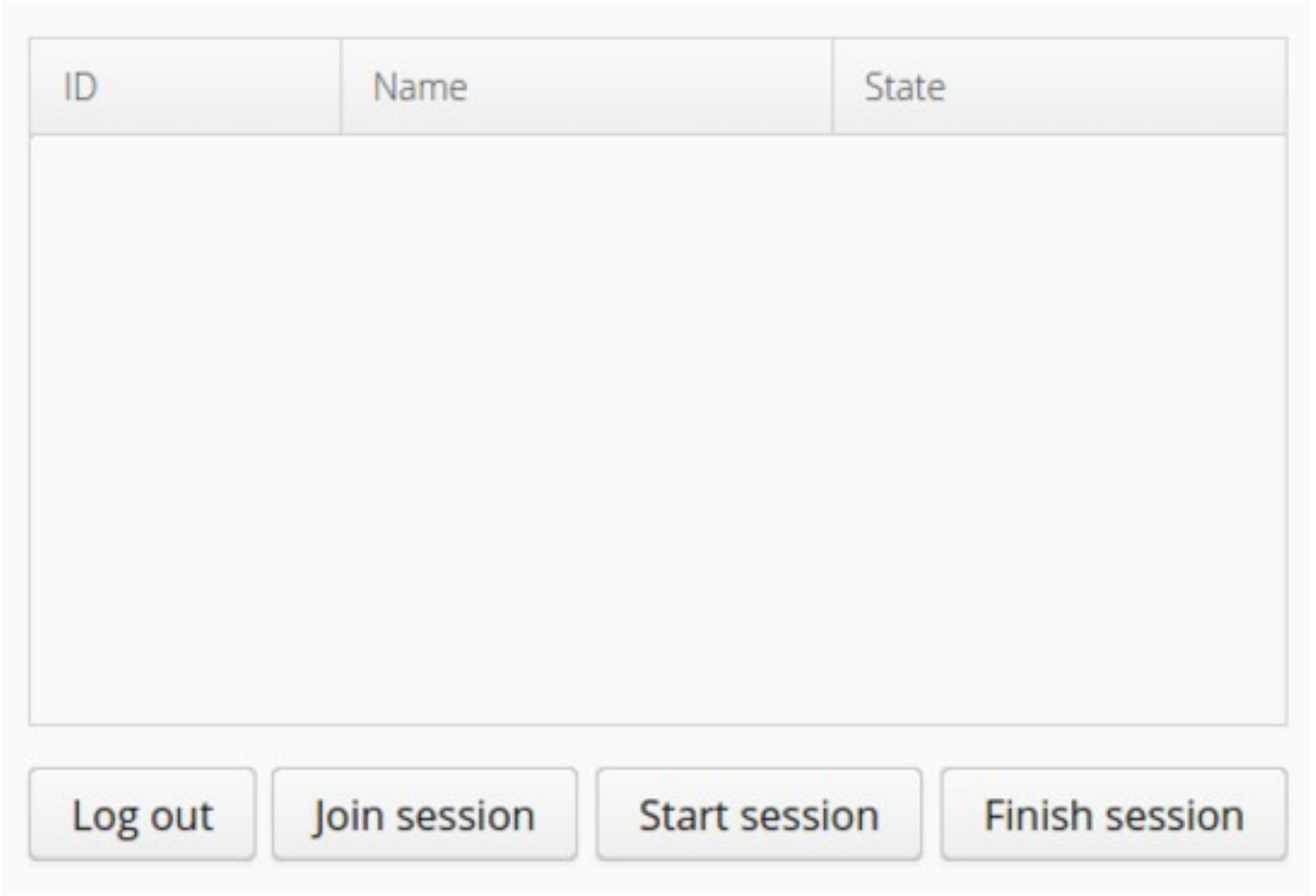
- the SVN server hosting the repository at the configured path (in the config.properties) is running and reachable

Navigate to the application's URL:

http://localhost:8080/MondoOnlineCollaborationClient/#!Login



Login with the Username/pass: test/test



Click the "Start session" button. This should navigate the browser to another page that presents the available models after loading them from the respository (using the credentials entered in #2). If the checkout fails then a warning message informs about the failure and the browser will not be navigated to the "Start session" page.

Available models

- model_group_1
  - sub_model_1
    - model_1_1
  - sub_model_2
    - model_1_2
- model_group_2
  - model_2_1
- model_group_3
  - sub_model_1
    - model_3_1
  - sub_model_2
    - model_3_2
  - sub_model_3
    - model_3_3

Start

Select the "model_group_1/sub_model_1/model_1_1" model then click the "Start" button. (This step initializes the parsing of the EMF model into JSON, and creates a modeling session with the model and an empty set of users). Afterwards the browser is navigated back to the "Session selection" page and a session for the selected model should be listed.

ID	Name	State
0	model_1_1	OPEN

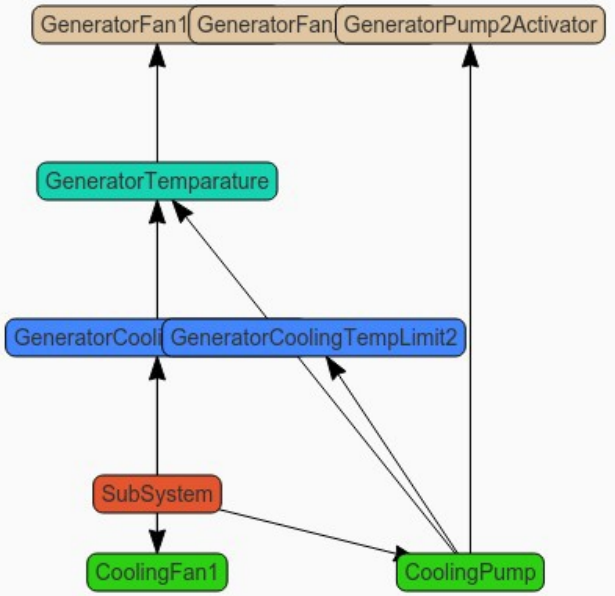
Log out | Join session | Start session | Finish session

Click on the started session then press the "Join session" button. The browser is navigated to the "Collaboration page" and the model is visualised. (The JSON model is visualised as a result of this step)

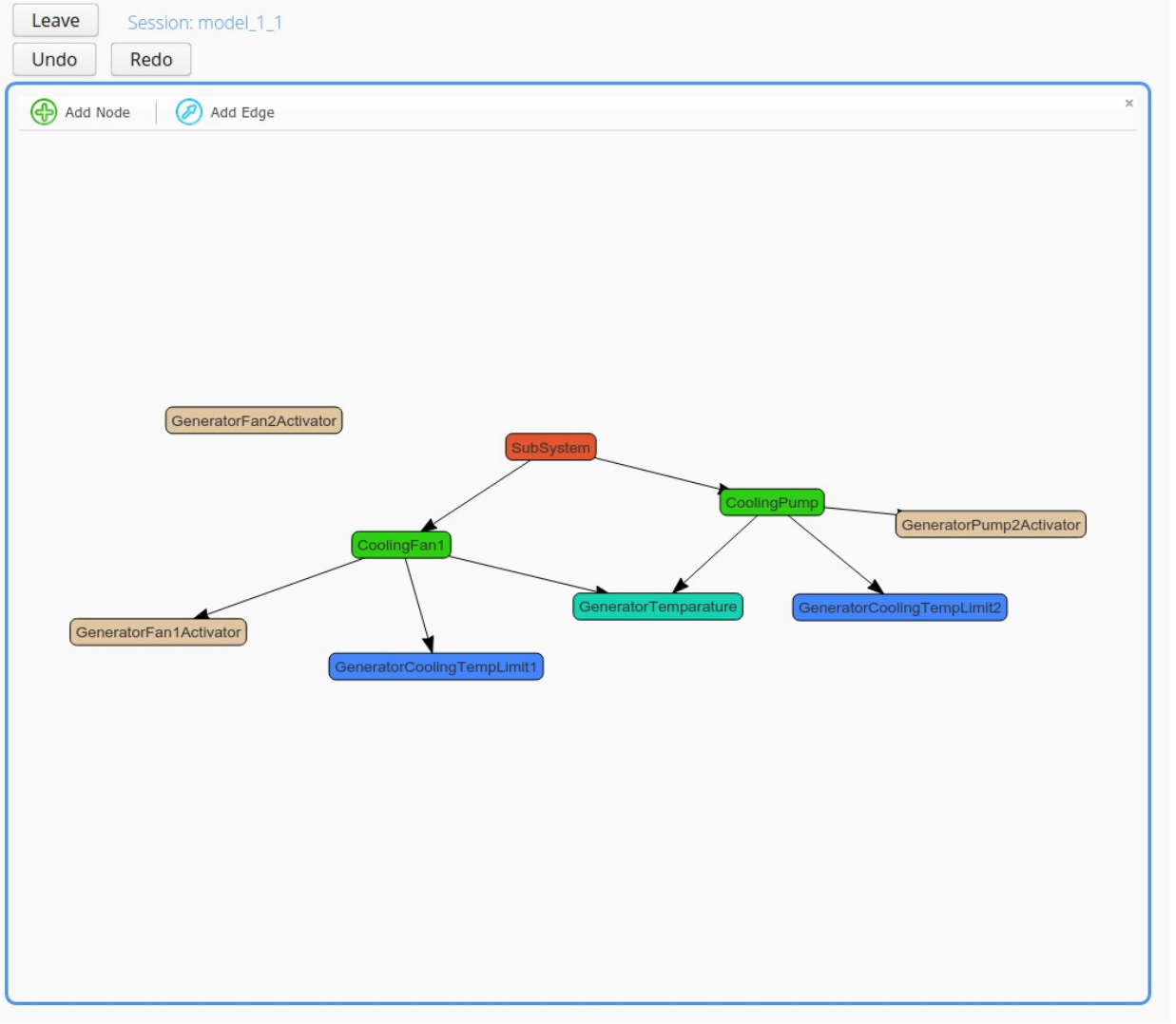
Leave Session: model_1_1

Undo Redo

Add Node | Add Edge

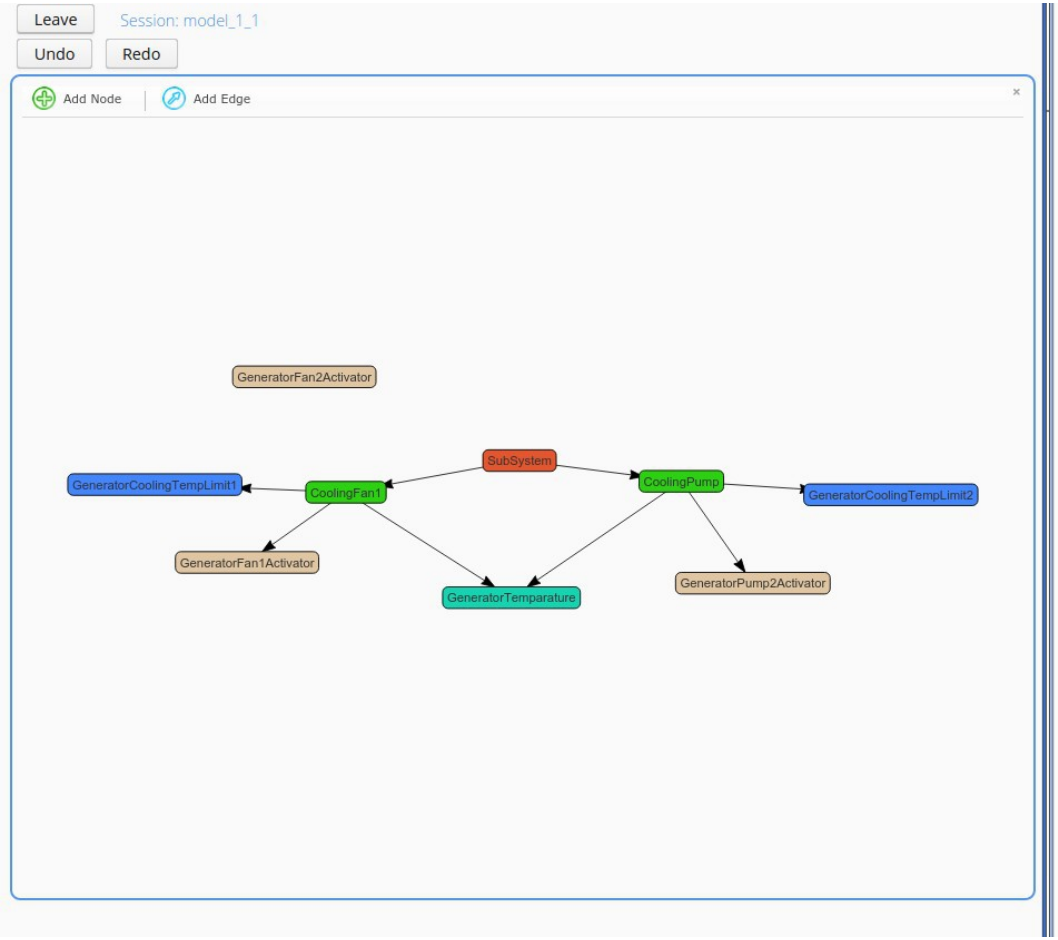


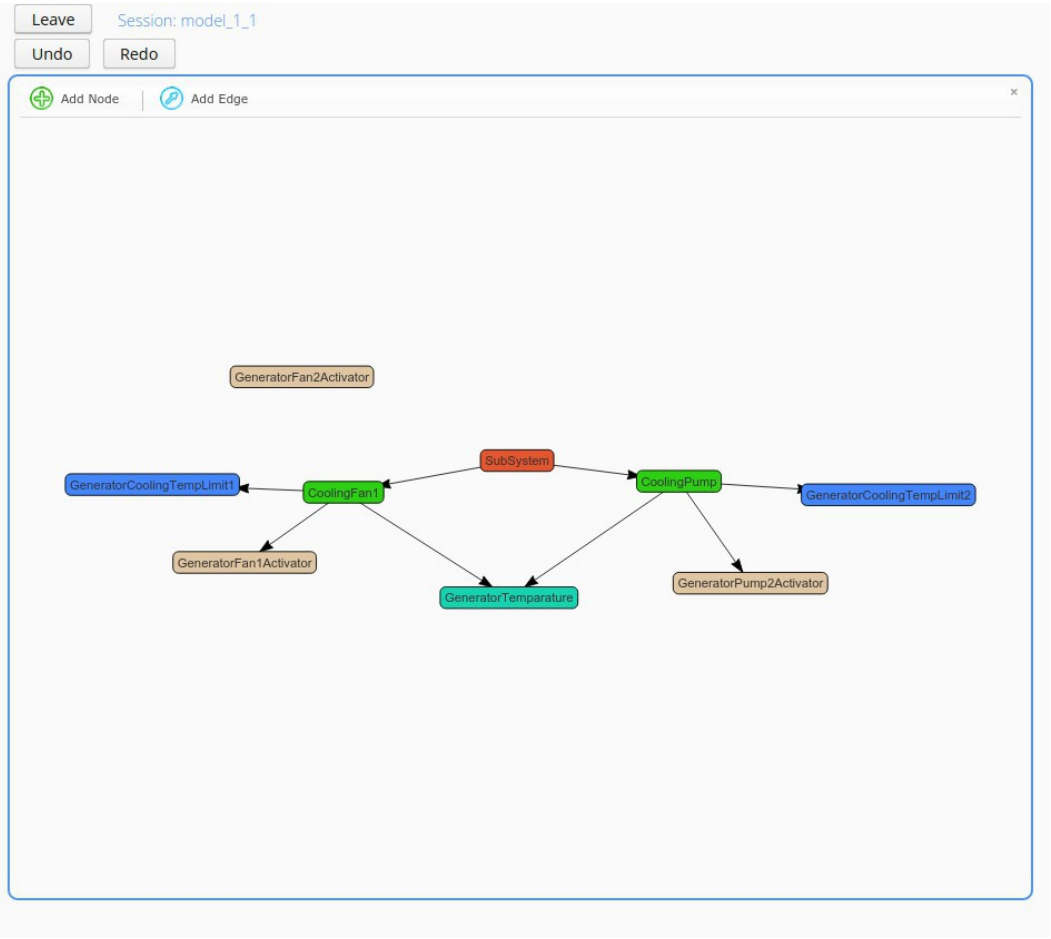
Organize the model by dragging the nodes. The model flickers after each move because the positions are stored centrally.



Open a new tab in the browser. Login with another user (in this case this user does not have to have acces to the repository.) Join the same session by selecting it and pressing the "Join session" button. This new tab is another instance of the Client application and could be a remote from connection as well (with a proper IP address in the URL field).

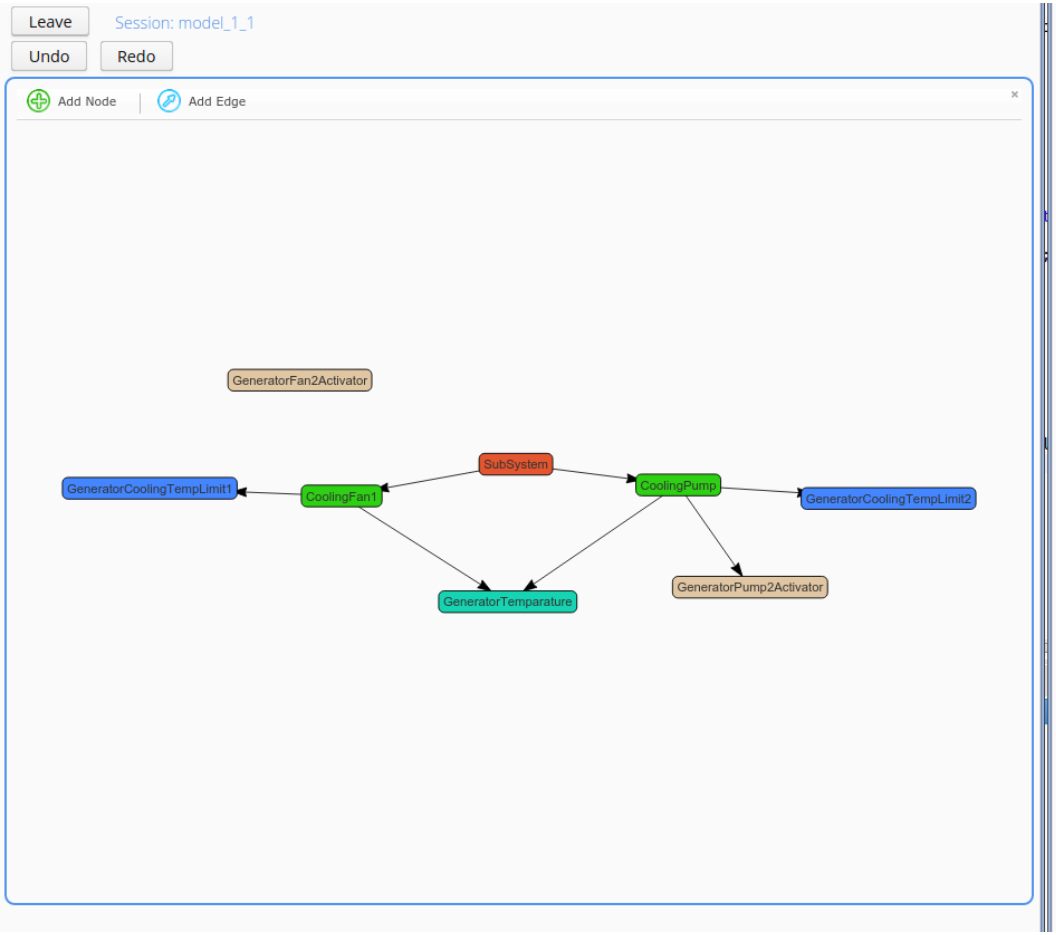
Detach/organize the browser tabs so that both can be seen at the same time.

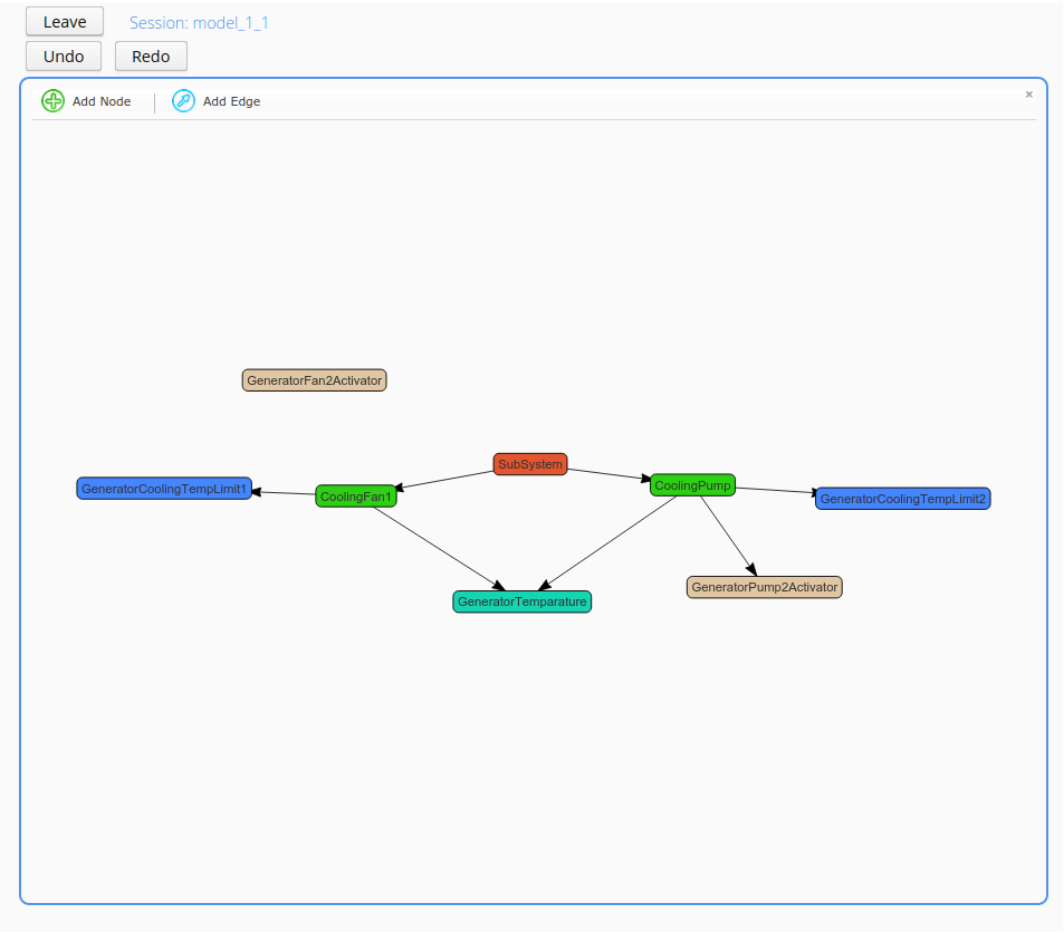




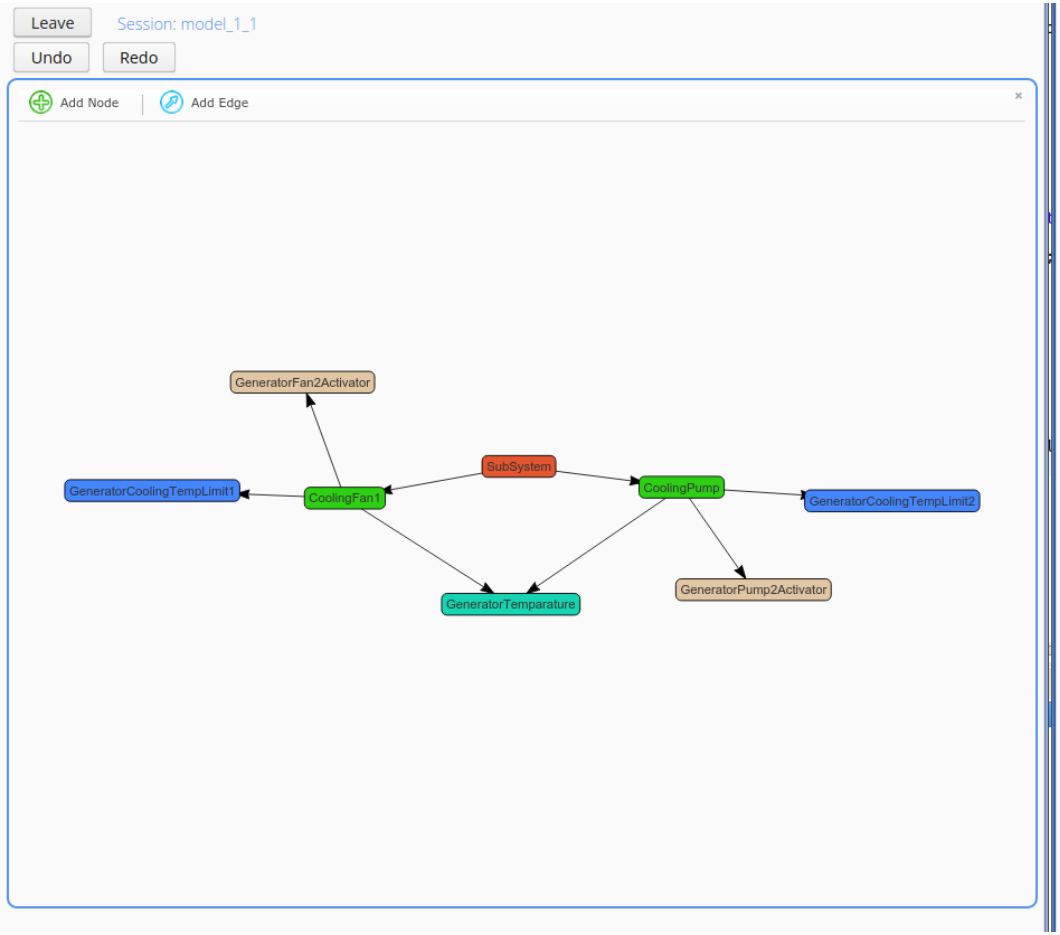
(At this point node draggings and modifications should be propagated in real time to the other user.)

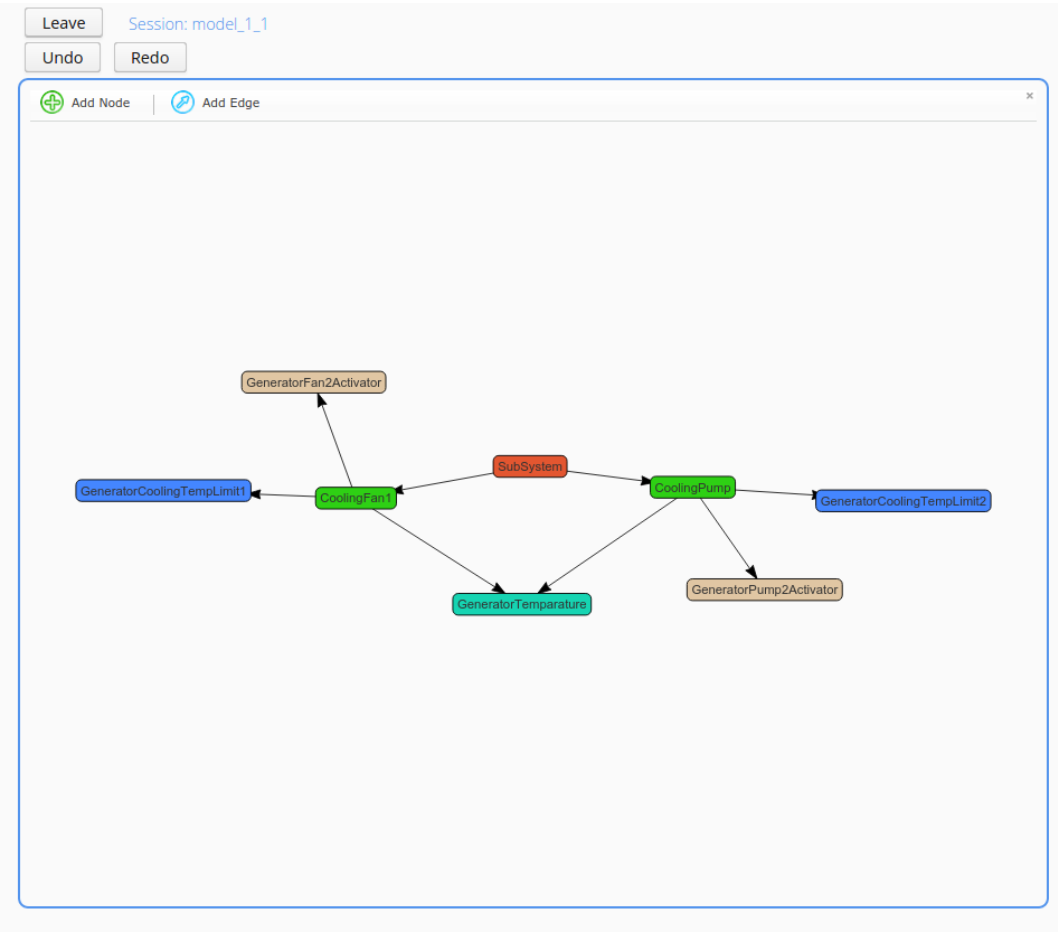
Delete the "System Output" called "GeneratorFan1Activator" (the brown node attached to the "CoolingFan1" control unit): click on the node then click on the appearing "Delete selected" button on the top.


Leave
Session: model_1_1
Undo
Redo
Add Node
Add Edge
GeneratorFan2Activator
SubSystem
GeneratorCoolingTempLimit1
CoolingFan1
CoolingPump
GeneratorCoolingTempLimit2
GeneratorTemparature
GeneratorPump2Activator

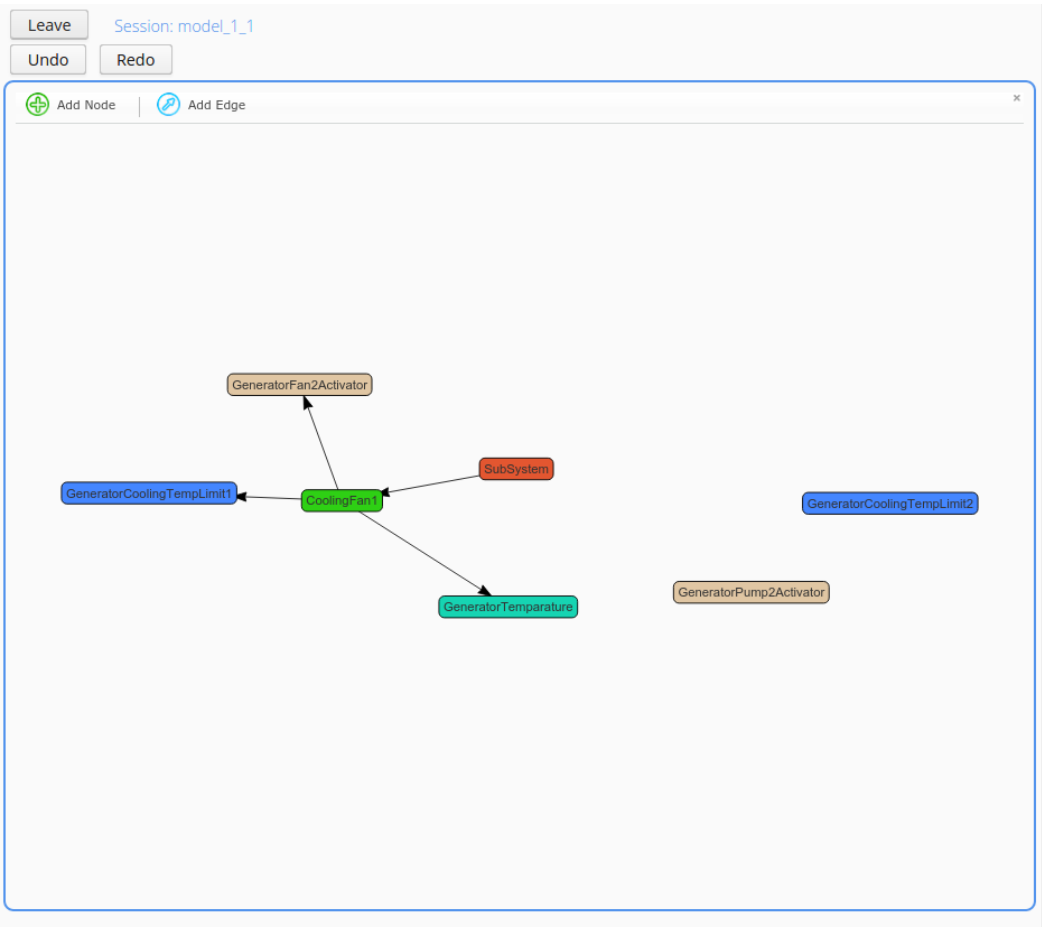

Leave
Session: model_1_1
Undo
Redo
Add Node
Add Edge
GeneratorFan2Activator
SubSystem
GeneratorCoolingTempLimit1
CoolingFan1
CoolingPump
GeneratorCoolingTempLimit2
GeneratorTemparature
GeneratorPump2Activator

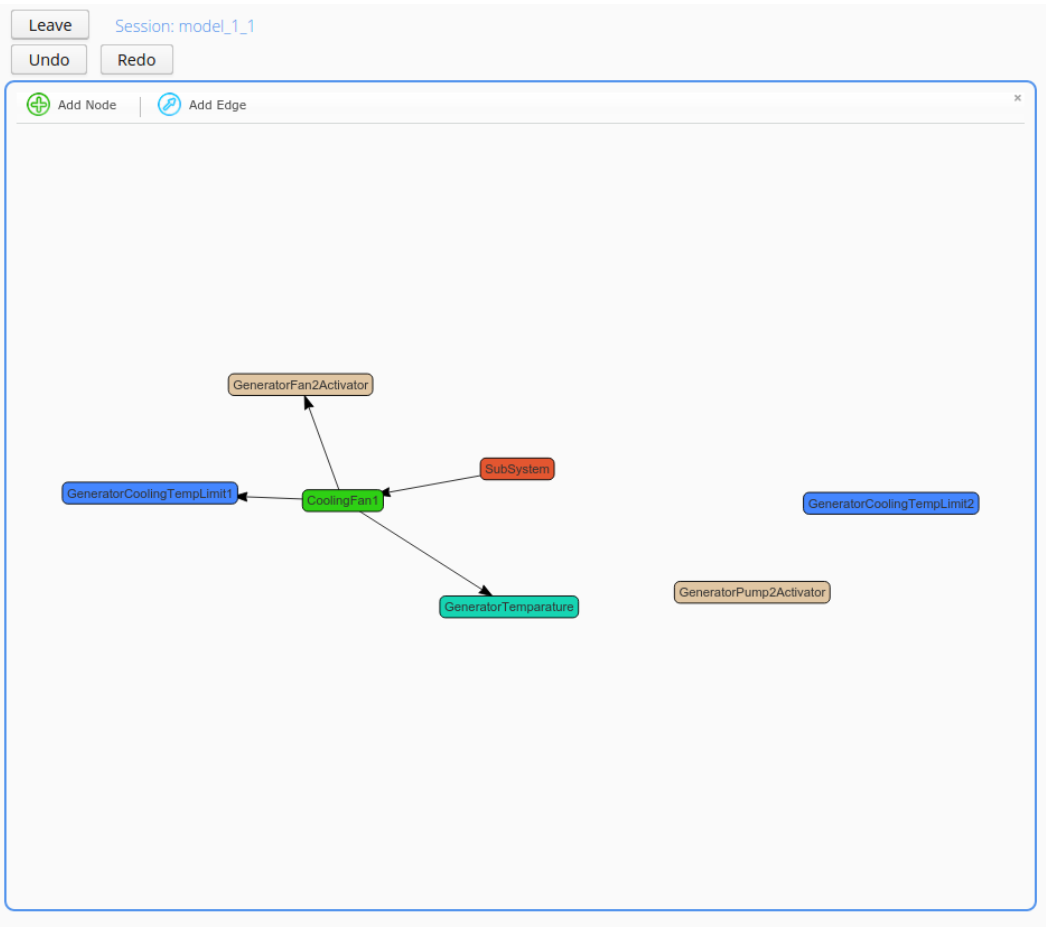
Connect the "GeneratorFan2Activator" to the "CoolingFan1" by pressing the "Add Edge" button then dragging the cursor from "GeneratorFan2Activator" to "CoolingFan1". (this creates an output reference of "GeneratorFan2Activator" in the "CoolingFan1" control unit).


Leave
Session: model_1_1
Undo
Redo
Add Node
Add Edge
GeneratorFan2Activator
SubSystem
GeneratorCoolingTempLimit1
CoolingFan1
CoolingPump
GeneratorCoolingTempLimit2
GeneratorTemparature
GeneratorPump2Activator

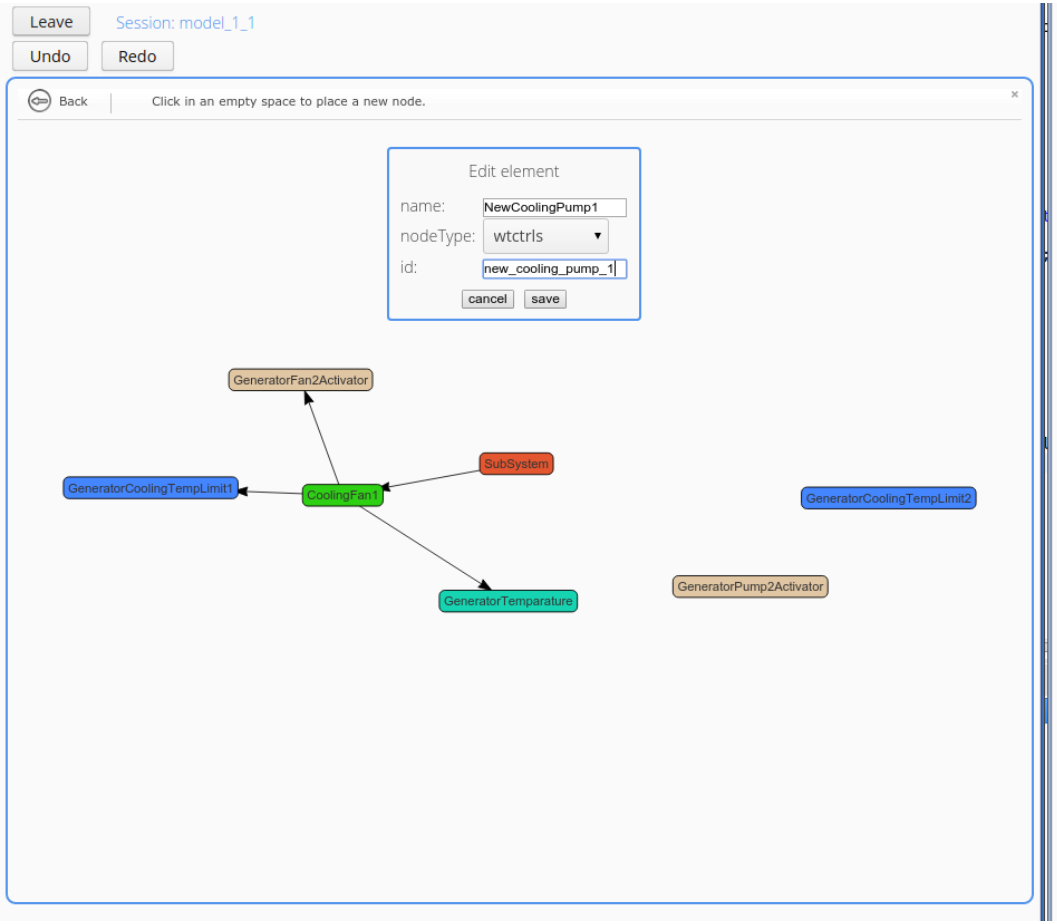

Leave
Session: model_1_1
Undo
Redo
Add Node
Add Edge
GeneratorFan2Activator
SubSystem
GeneratorCoolingTempLimit1
CoolingFan1
CoolingPump
GeneratorCoolingTempLimit2
GeneratorTemparature
GeneratorPump2Activator

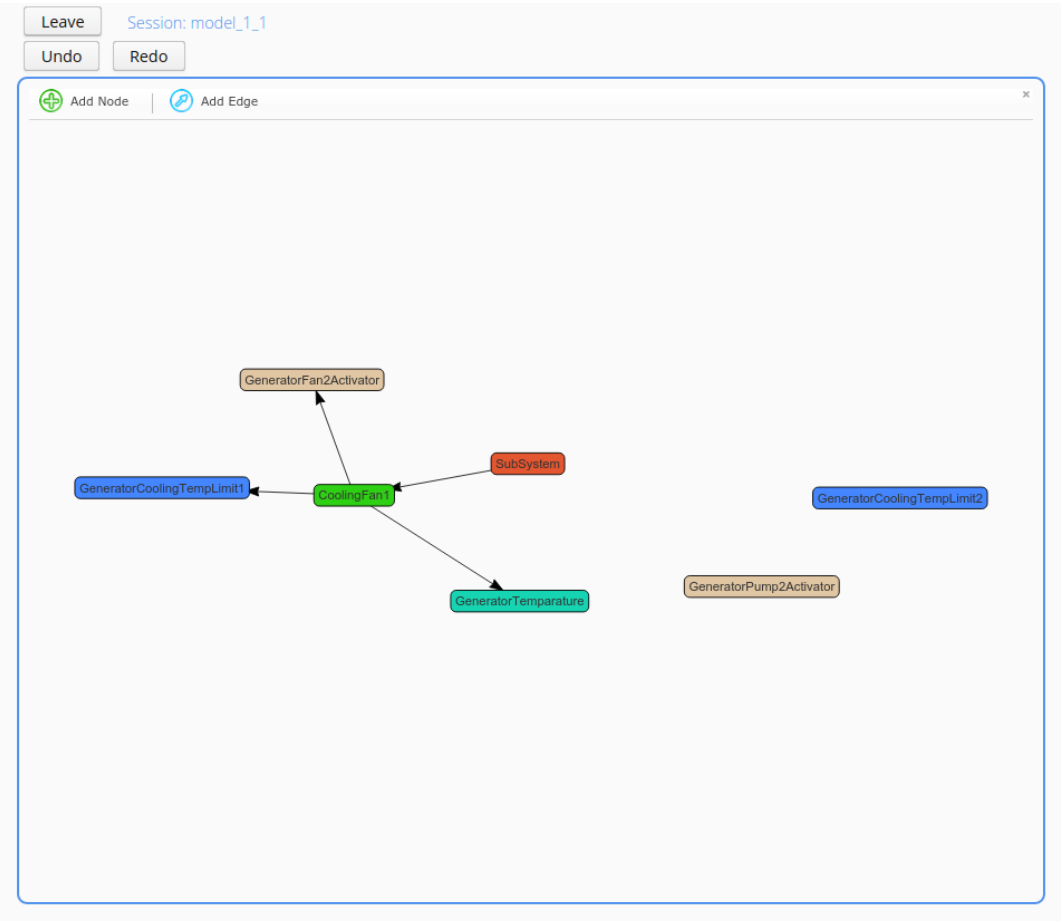
Delete the "CoolingPump" node previously.



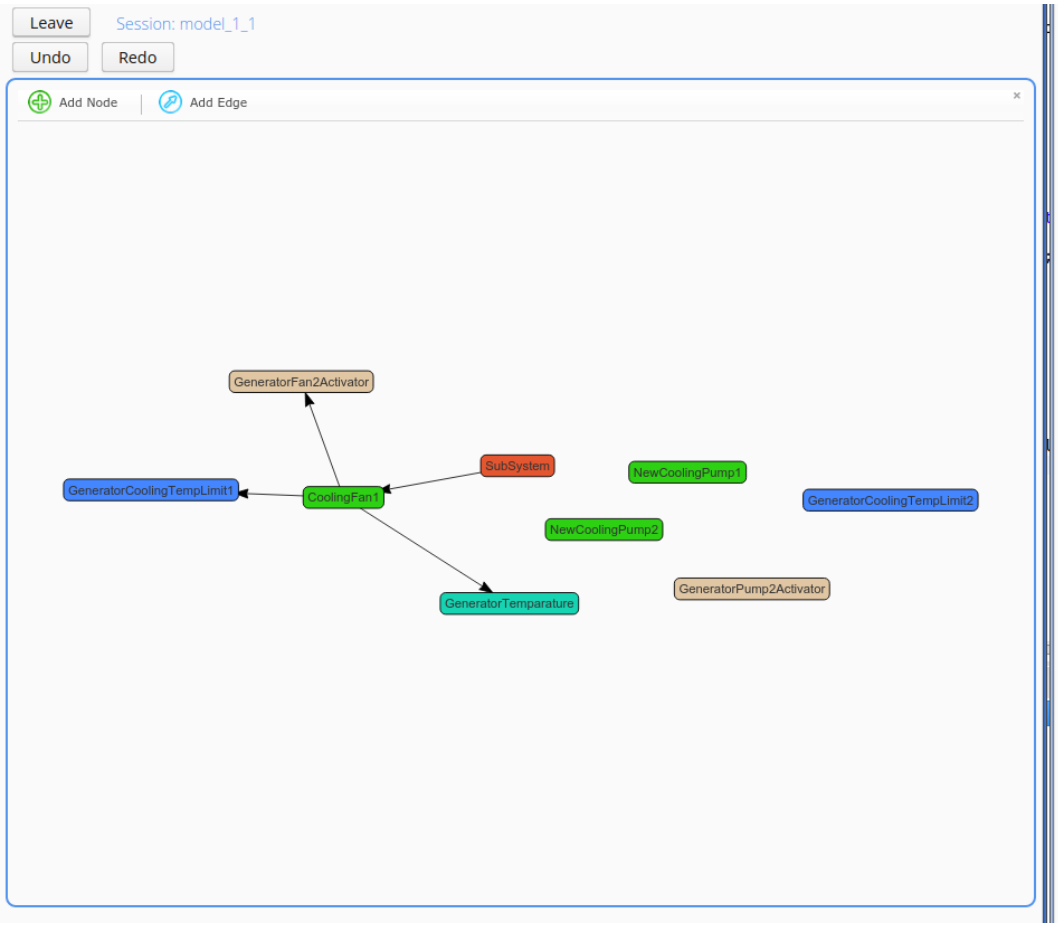


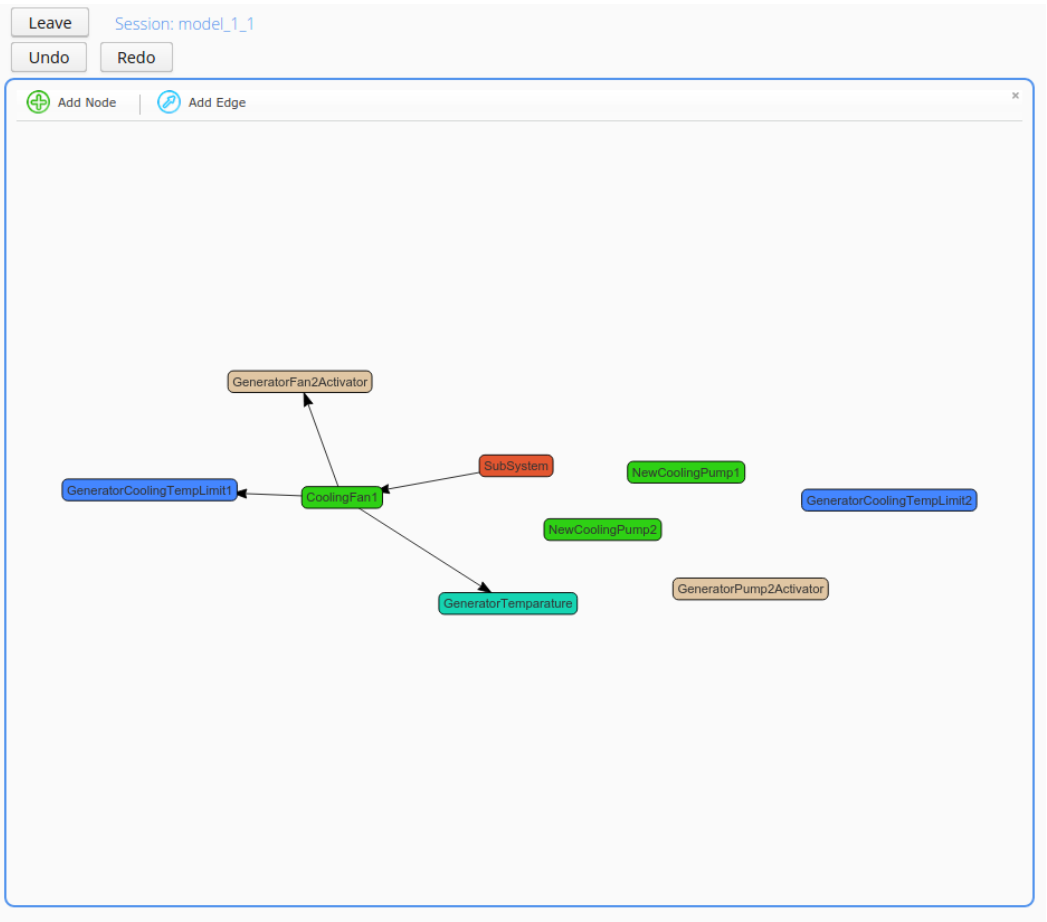
Press the "Add Node" button then click somewhere (blank) in the modeling area. Add the name "NewCoolingPump1", change the ID to "new_cooling_pump_1" then select the "wtctrls" option from the dropdown list near "nodeType".


Leave
Session: model_1_1
Undo
Redo
Back
Click in an empty space to place a new node.
Edit element
name:
NewCoolingPump1
nodeType:
wtctrls
id:
new_cooling_pump_1
cancel
save
GeneratorFan2Activator
SubSystem
GeneratorCoolingTempLimit1
CoolingFan1
GeneratorCoolingTempLimit2
GeneratorTemparature
GeneratorPump2Activator

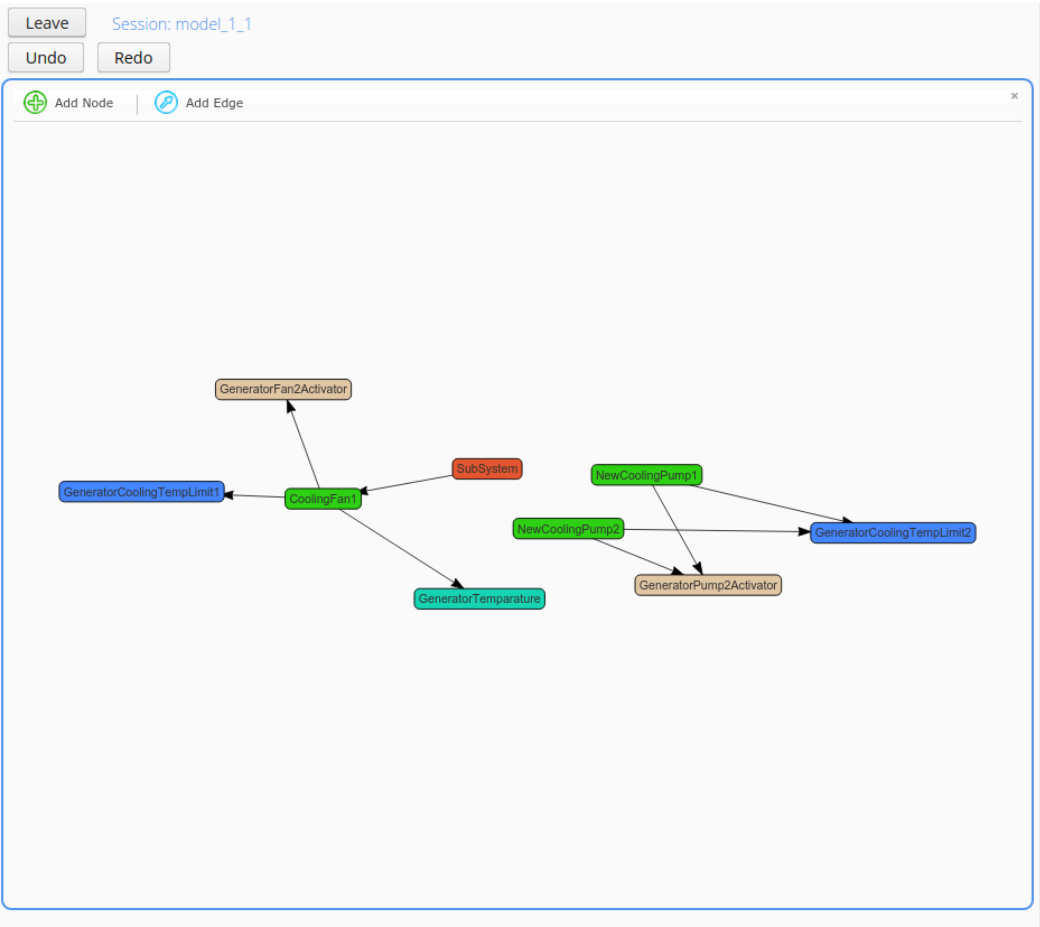

Leave
Session: model_1_1
Undo
Redo
Add Node
Add Edge
GeneratorFan2Activator
SubSystem
GeneratorCoolingTempLimit1
CoolingFan1
GeneratorCoolingTempLimit2
GeneratorTemparature
GeneratorPump2Activator

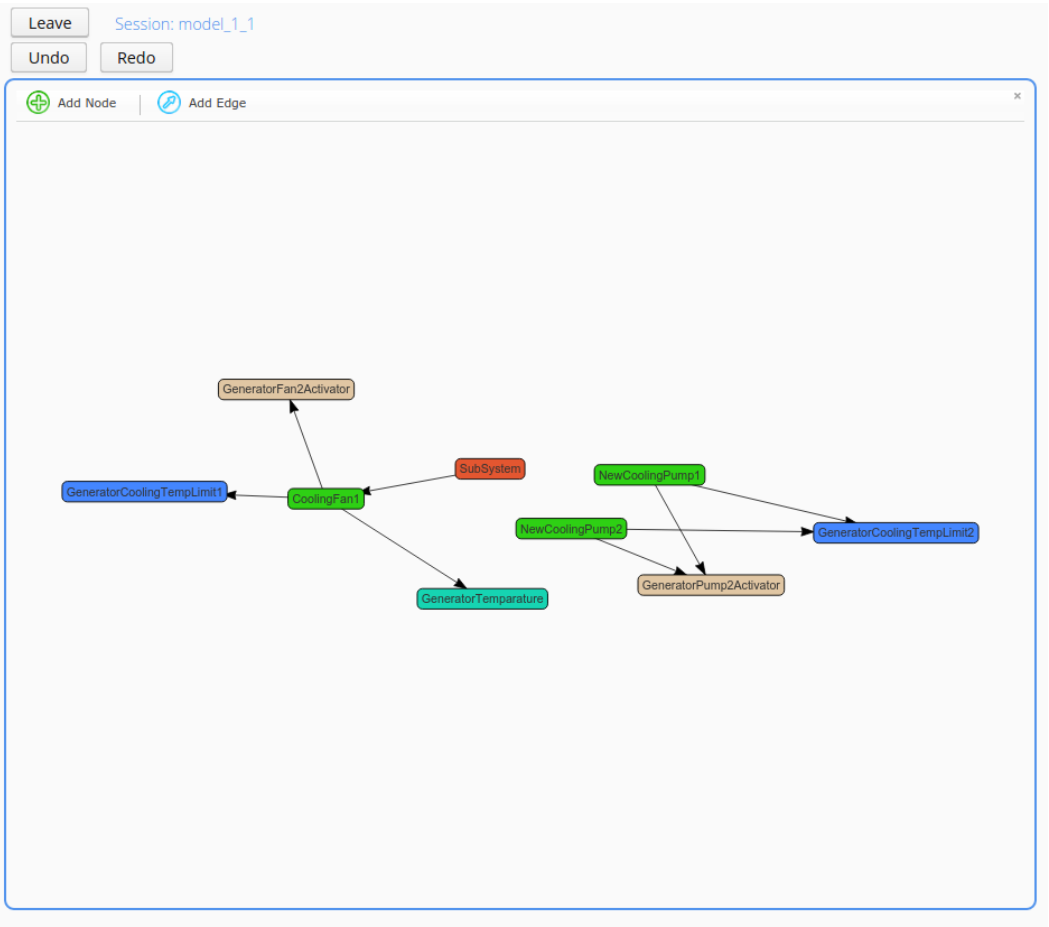
Add a new node by repeating the previous step but this time name the node "NewCoolingPump2" and set the ID to "new_cooling_pump_2".



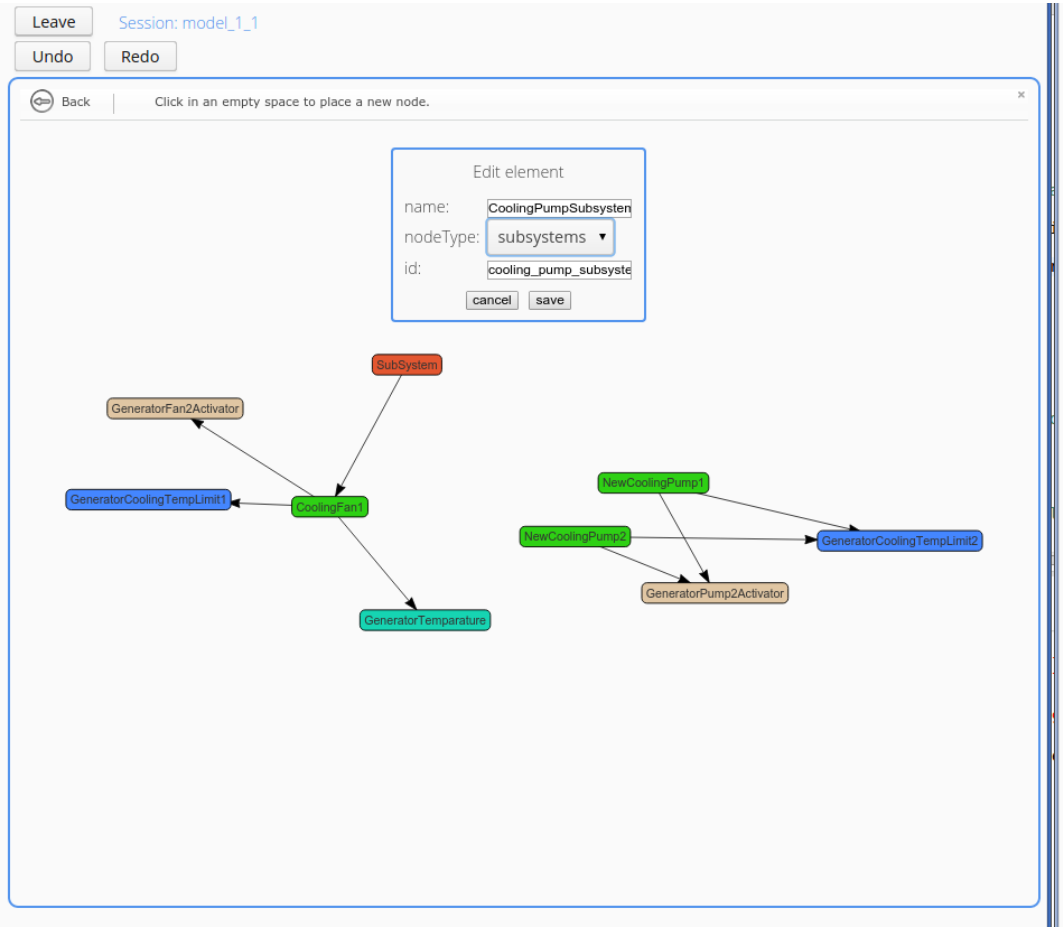


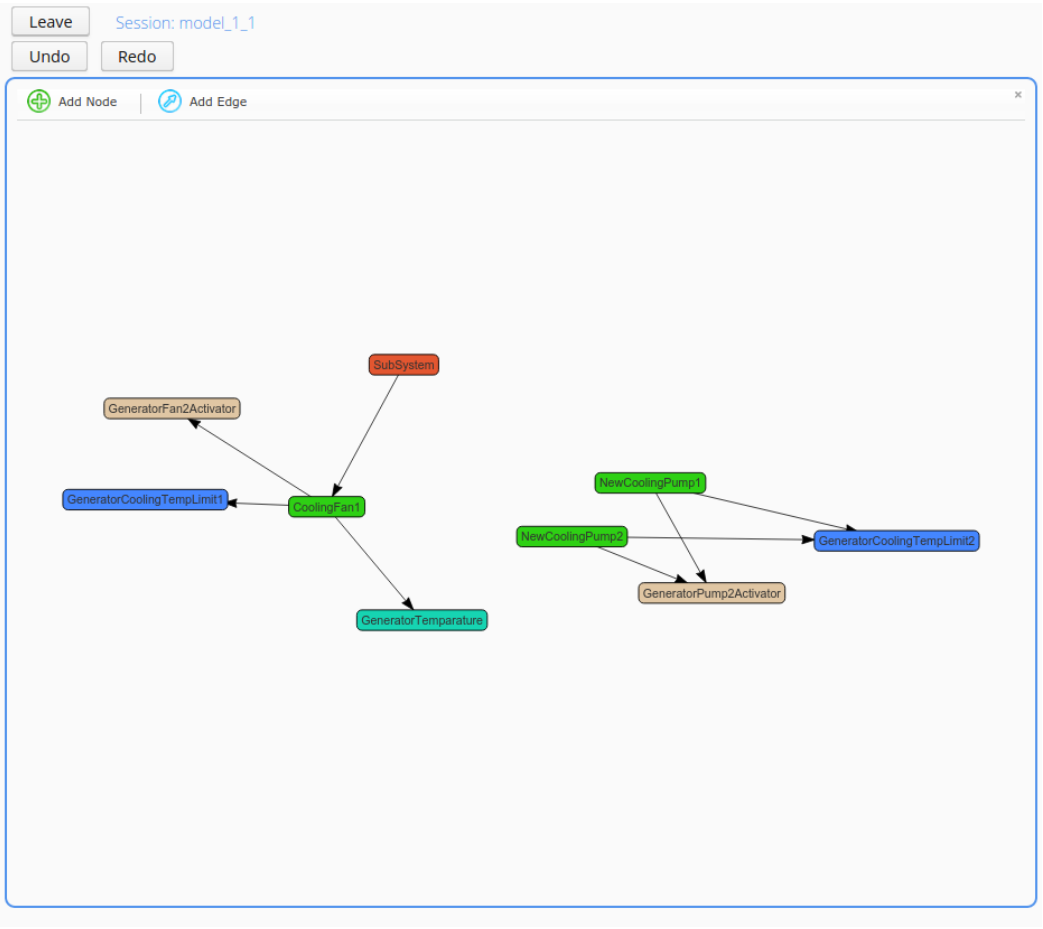
Connect the GeneratorPump2Activator and GeneratorCoolingTempLimit2 nodes to both "NewCoolingPump1" and "NewCoolingPump2"





Now add a new subsystem node with the "Add Node" button: this time set the name of the node to "CoolingPumpSubsystem", the ID to "cooling_pump_subsystem" and the nodeType to "subsystems" and eventually hit "save".

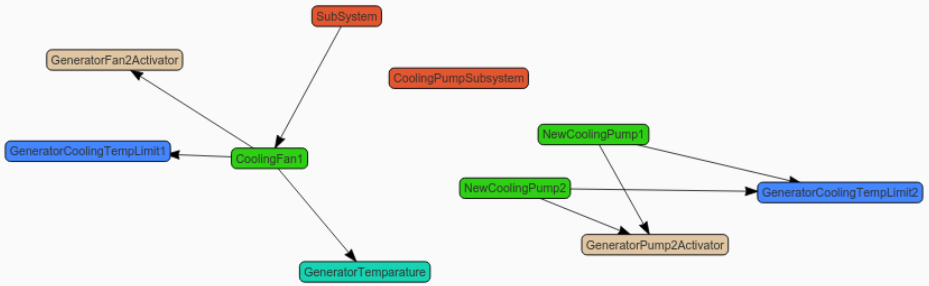

Leave
Session: model_1_1
Undo
Redo
Back
Click in an empty space to place a new node.
Edit element
name:
CoolingPumpSubsysten
nodeType:
subsystems
id:
cooling_pump_subsyste
cancel
save
SubSystem
GeneratorFan2Activator
GeneratorCoolingTempLimit1
CoolingFan1
GeneratorTemparature
NewCoolingPump1
NewCoolingPump2
GeneratorCoolingTempLimit2
GeneratorPump2Activator


Leave
Session: model_1_1
Undo
Redo
Add Node
Add Edge
SubSystem
GeneratorFan2Activator
GeneratorCoolingTempLimit1
CoolingFan1
GeneratorTemparature
NewCoolingPump1
NewCoolingPump2
GeneratorCoolingTempLimit2
GeneratorPump2Activator

Leave Session: model_1_1

Undo Redo

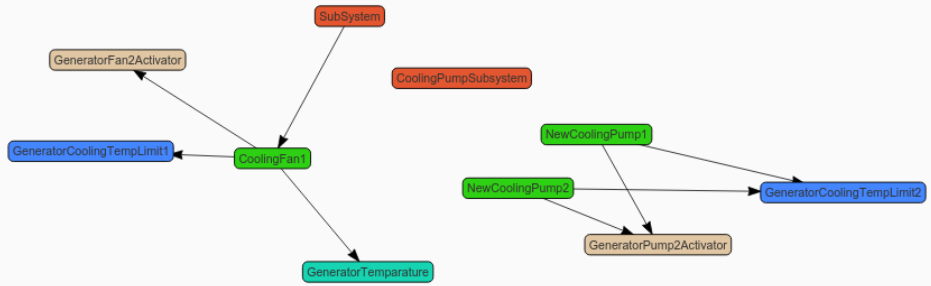
Add Node | Add Edge



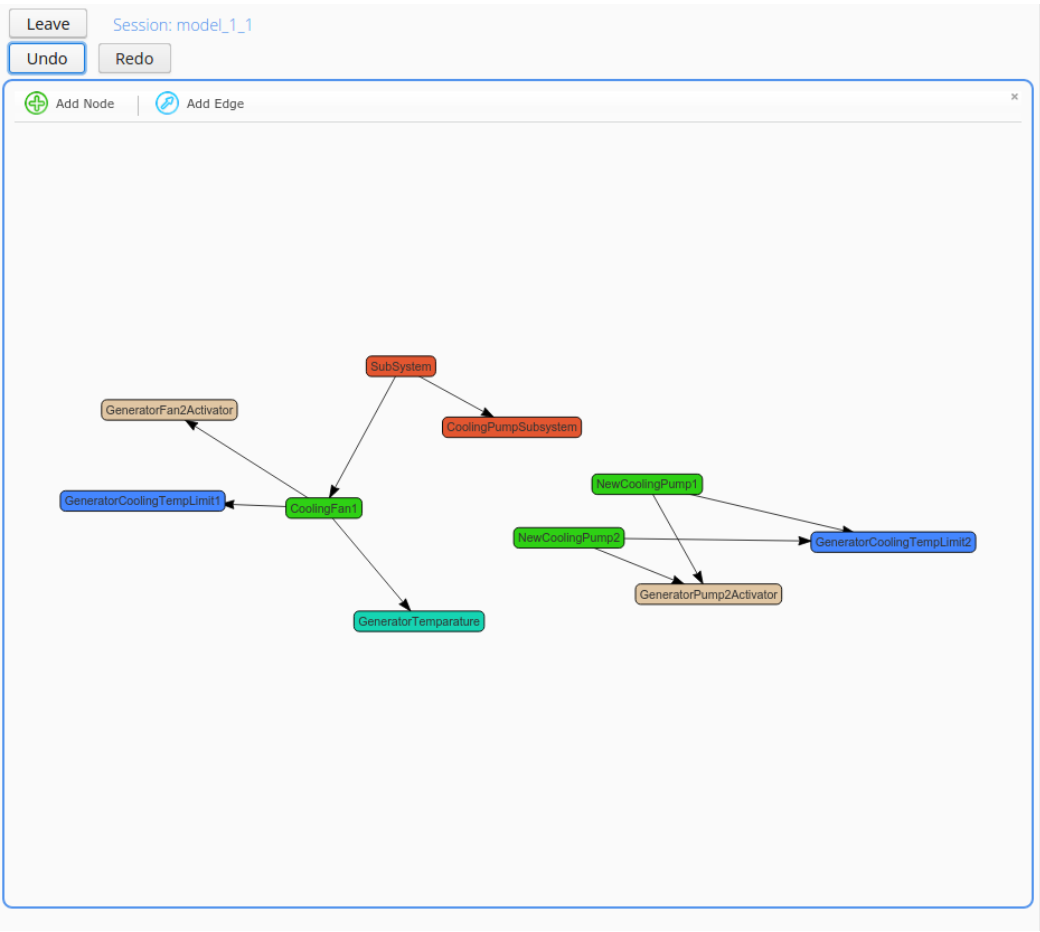
Leave Session: model_1_1

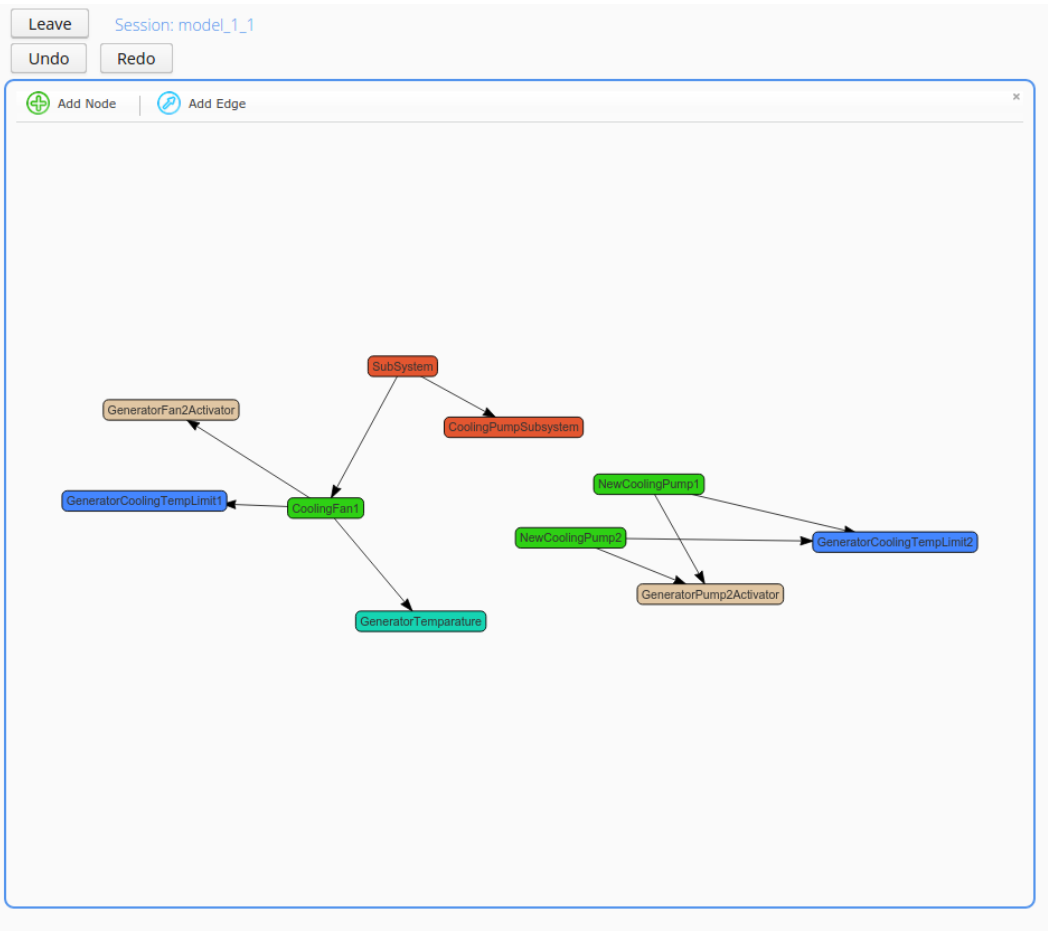
Undo Redo

Add Node | Add Edge

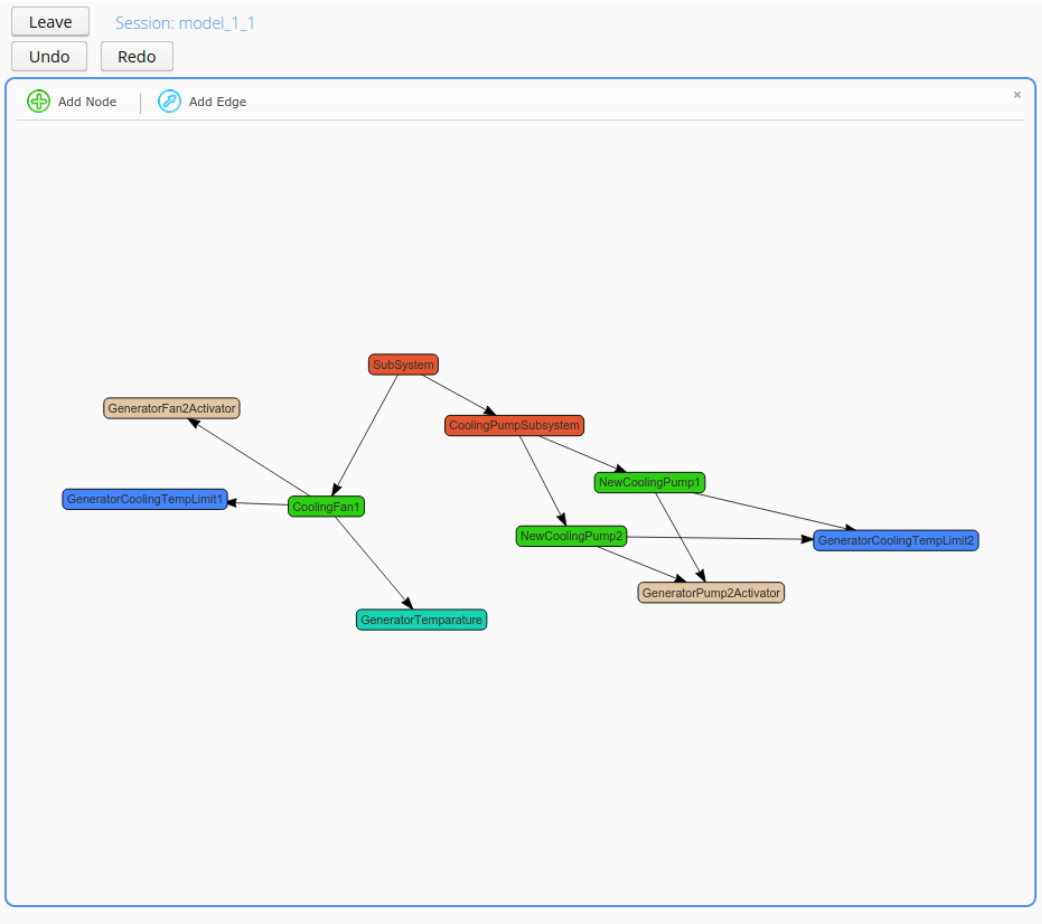


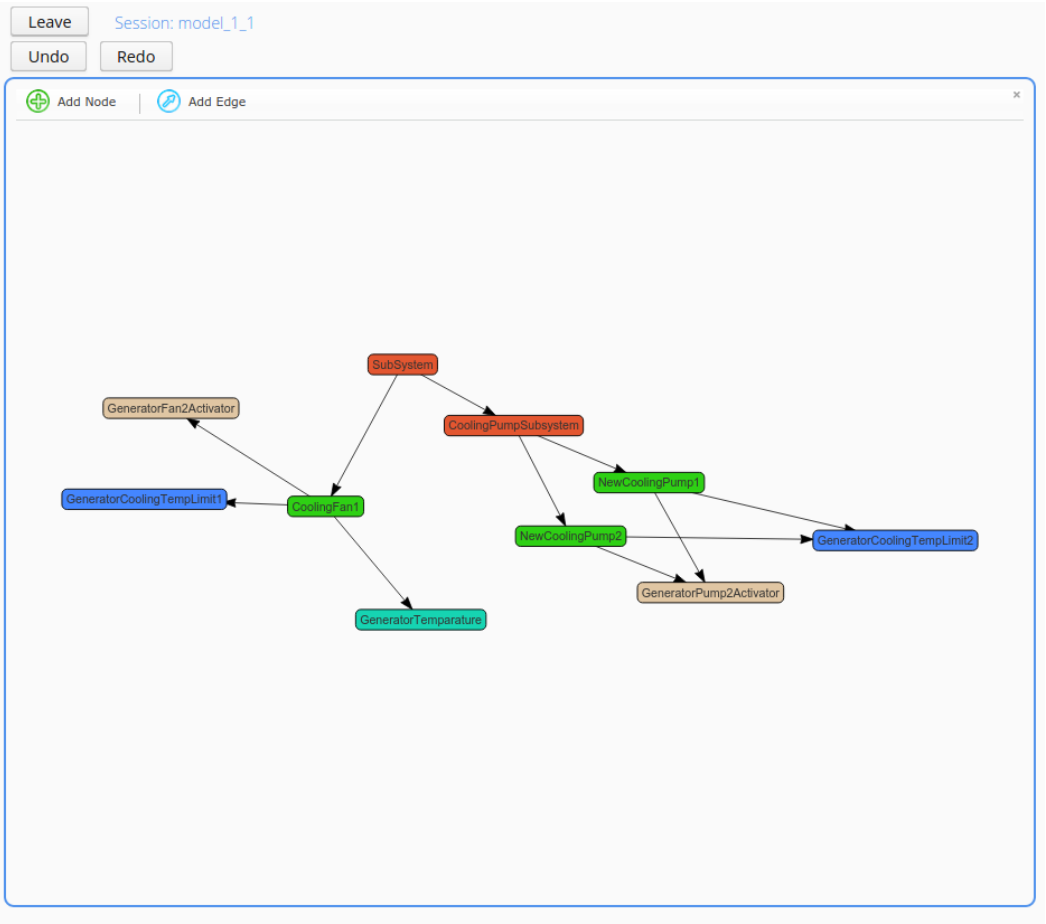
Add a new edge FROM "SubSystem" TO "CoolingPumpSubsystem". This is important: start dragging the edge FROM "SubSystem" INTO "CoolingPumpSubsystem" because subsystems may contain other subsystems, so the order matters.


Leave
Session: model_1_1
Undo
Redo
Add Node
Add Edge
SubSystem
GeneratorFan2Activator
CoolingPumpSubsystem
GeneratorCoolingTempLimit1
CoolingFan1
NewCoolingPump1
NewCoolingPump2
GeneratorCoolingTempLimit2
GeneratorPump2Activator
GeneratorTemparature

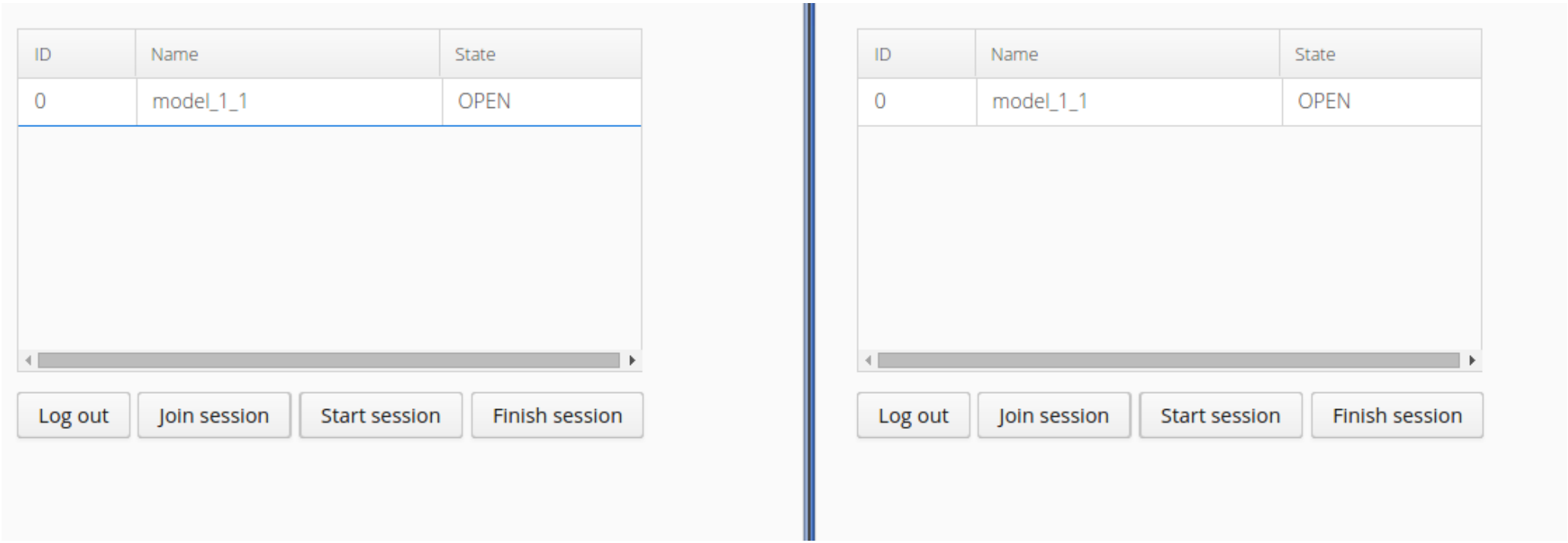

Leave
Session: model_1_1
Undo
Redo
Add Node
Add Edge
SubSystem
GeneratorFan2Activator
CoolingPumpSubsystem
GeneratorCoolingTempLimit1
CoolingFan1
NewCoolingPump1
NewCoolingPump2
GeneratorCoolingTempLimit2
GeneratorPump2Activator
GeneratorTemparature

Connect the newly created control units ("NewCoolingPump1", "NewCoolingPump2") to the new "CoolingPumpSubsystem" using the "Add Edge" button.

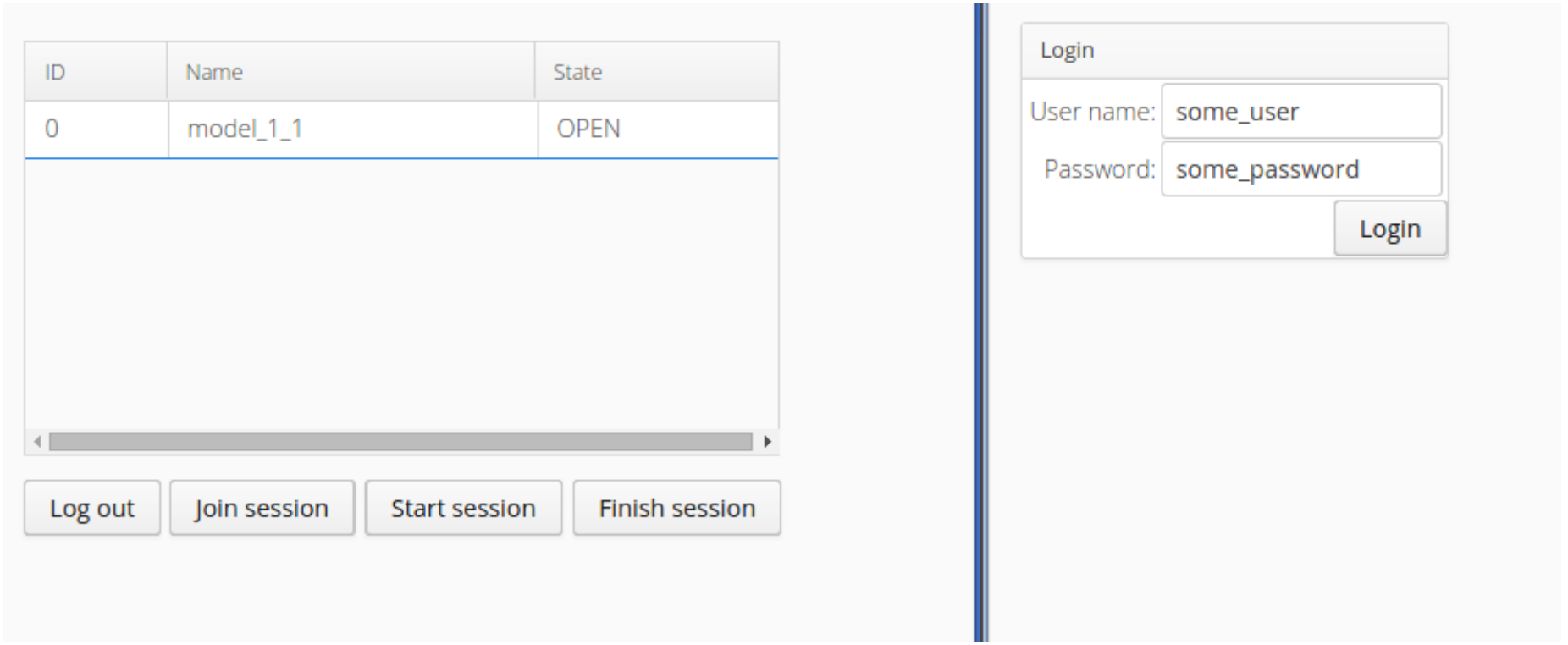




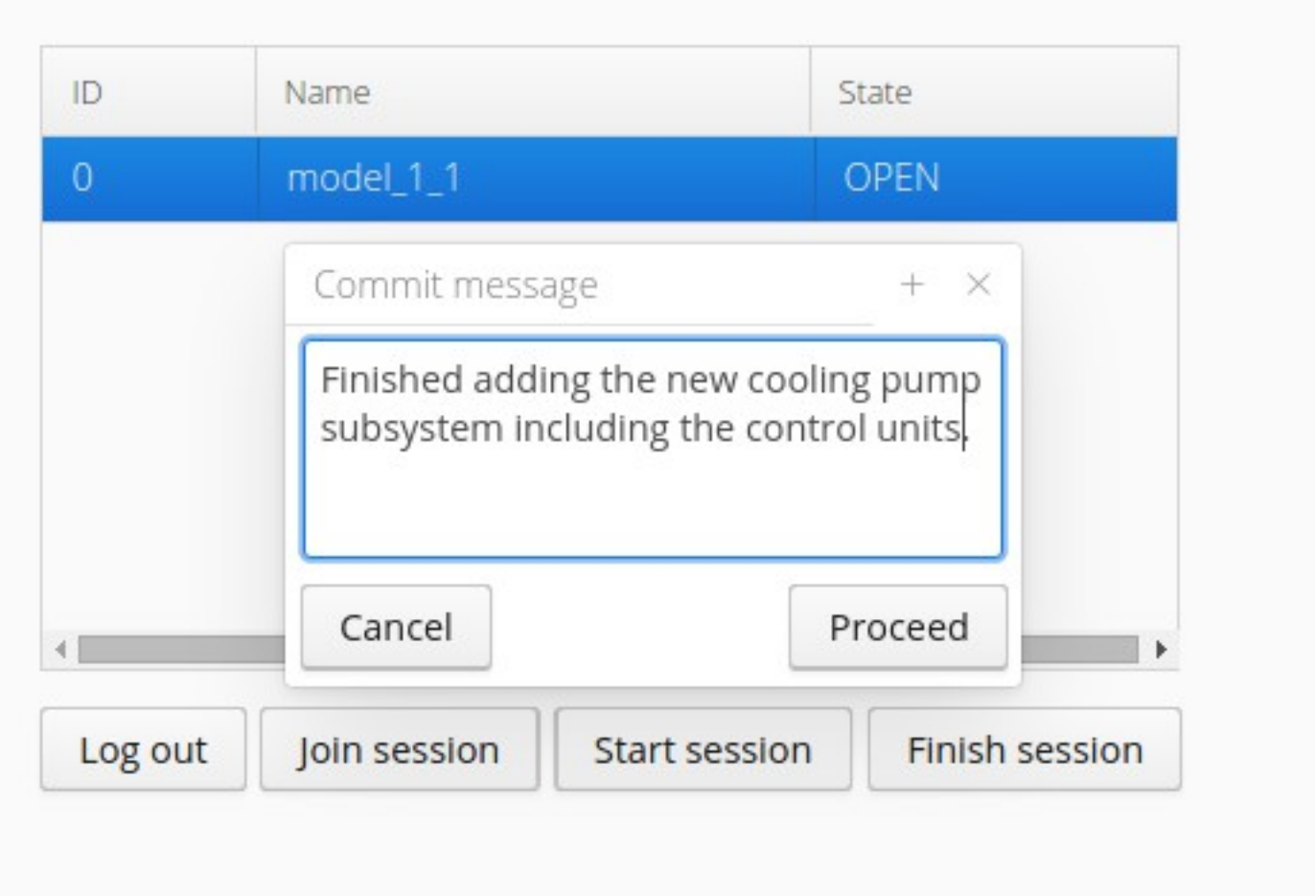
Leave the modeling session with both users by pressing the "Leave" button.



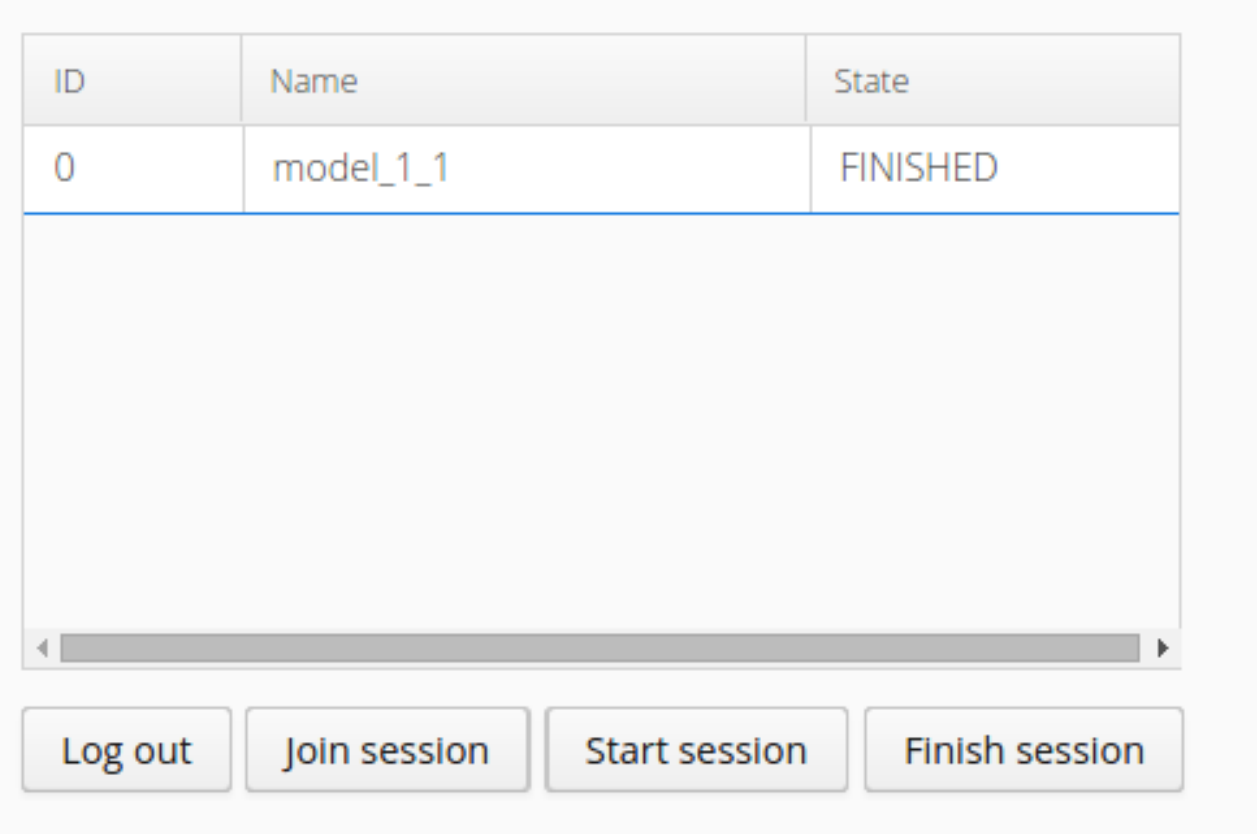
Log out with the second user and close the browser tab.



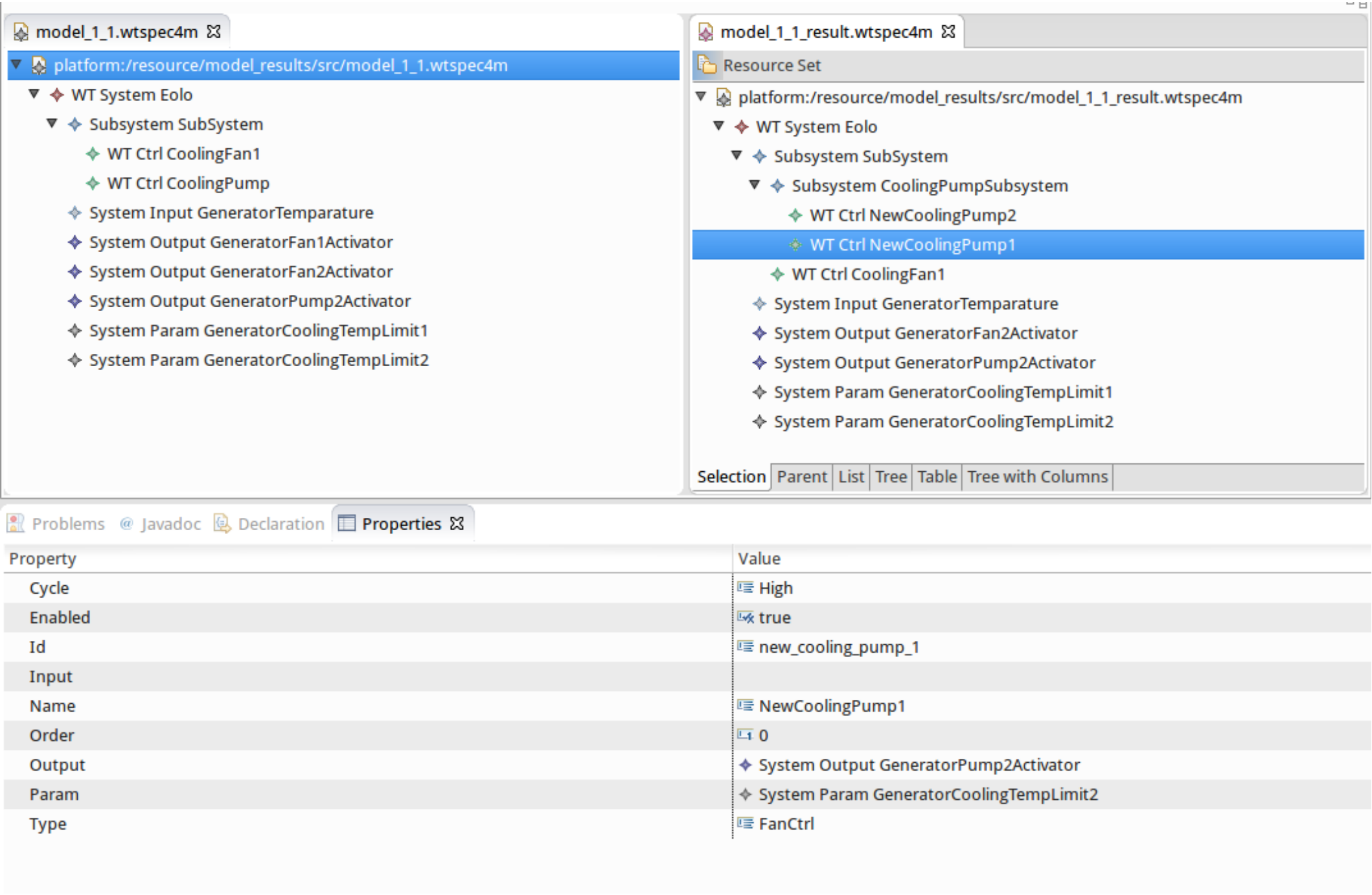
With the first user click on the model and press the "Finish session" button, add a commit message then press Proceed.



The collaboration session is finished and the modified model is committed to the repository.



If we load the result model and the original in the editor the editor generated from the metamodel we can see the difference between the state of the model before and after the collaboration session.


model_1_1.wtspec4m
platform:/resource/model_results/src/model_1_1.wtspec4m
WT System Eolo
Subsystem SubSystem
WT Ctrl CoolingFan1
WT Ctrl CoolingPump
System Input GeneratorTemparature
System Output GeneratorFan1Activator
System Output GeneratorFan2Activator
System Output GeneratorPump2Activator
System Param GeneratorCoolingTempLimit1
System Param GeneratorCoolingTempLimit2
model_1_1_result.wtspec4m
Resource Set
platform:/resource/model_results/src/model_1_1_result.wtspec4m
WT System Eolo
Subsystem SubSystem
Subsystem CoolingPumpSubsystem
WT Ctrl NewCoolingPump2
WT Ctrl NewCoolingPump1
WT Ctrl CoolingFan1
System Input GeneratorTemparature
System Output GeneratorFan2Activator
System Output GeneratorPump2Activator
System Param GeneratorCoolingTempLimit1
System Param GeneratorCoolingTempLimit2
Selection
Parent
List
Tree
Table
Tree with Columns
Problems
Javadoc
Declaration
Properties
Property
Value
Cycle
High
Enabled
true
Id
new_cooling_pump_1
Input
Name
NewCoolingPump1
Order
0
Output
System Output GeneratorPump2Activator
Param
System Param GeneratorCoolingTempLimit2
Type
FanCtrl