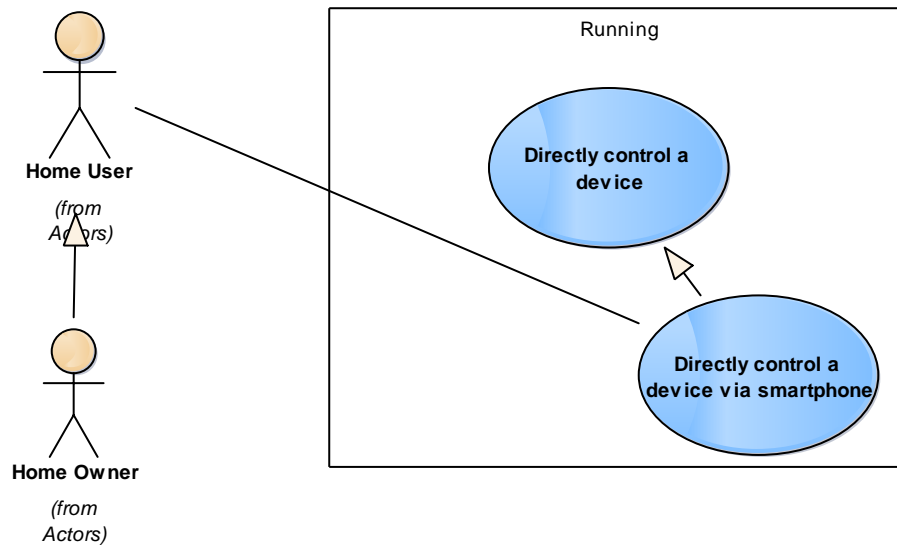


Learning UML

O'Reilly

Exercises – Relationships in Use Case Diagrams

If you have followed along, your *Running* use case diagram should look similar to the one in the movie. If not, first create a diagram that looks like this.



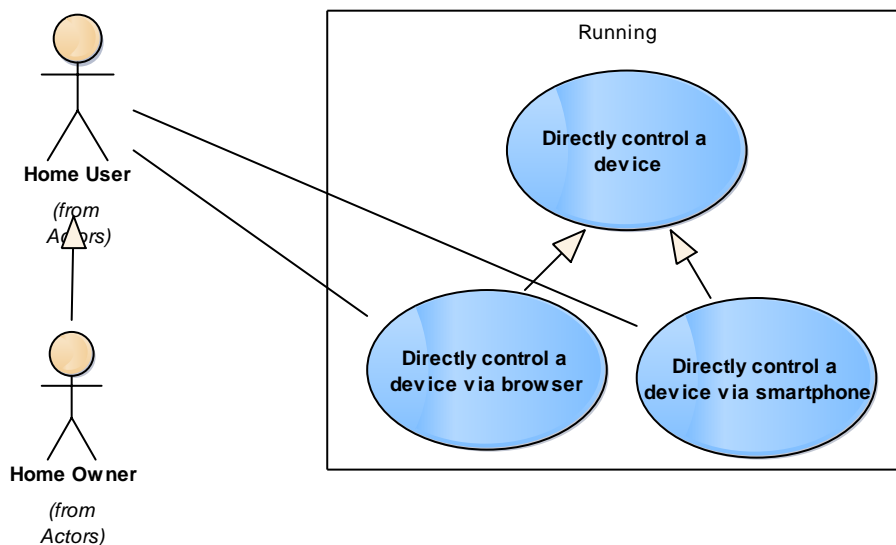
Now do the following:

Add a new use case to the diagram and call it *Directly control a device via browser*.

Create a generalization/specialization relationship between it and *Directly control a device*.

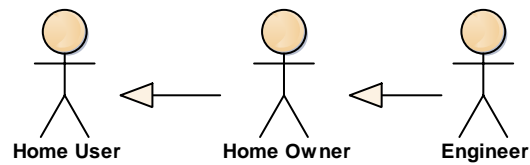
Add an association between the actor *Home User* and the new use case.

Your diagram should now look like this.

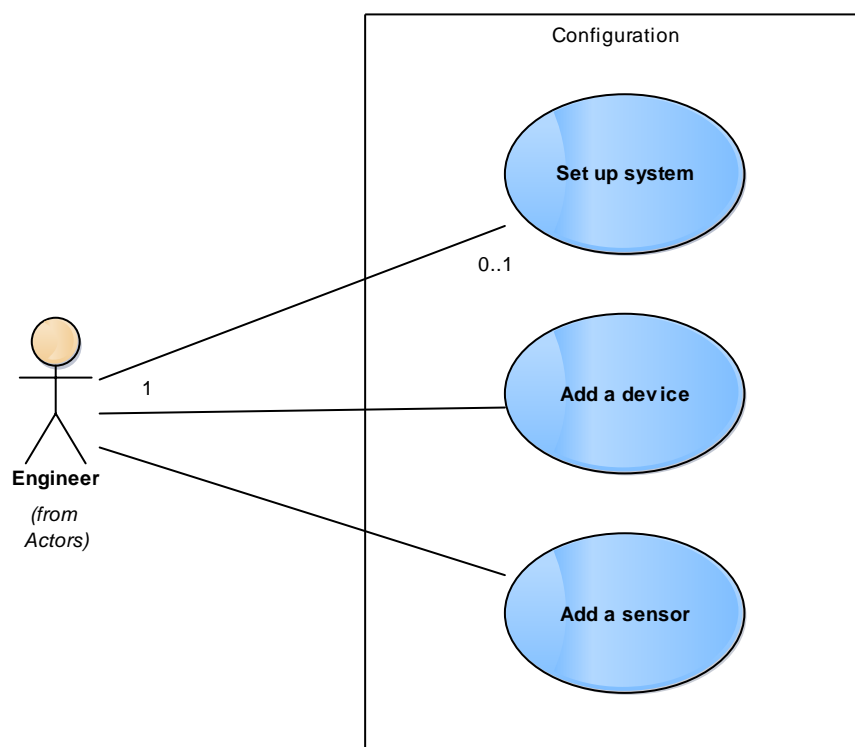


In the *Actors* diagram add a generalization/specialization relationship between *Engineer* and *Home Owner*, so that *Engineer* specializes *Home Owner*.

Your diagram should now look something like this. (Relative position on the diagram is not important.)



Your *Configuration* use case diagram should look like this.

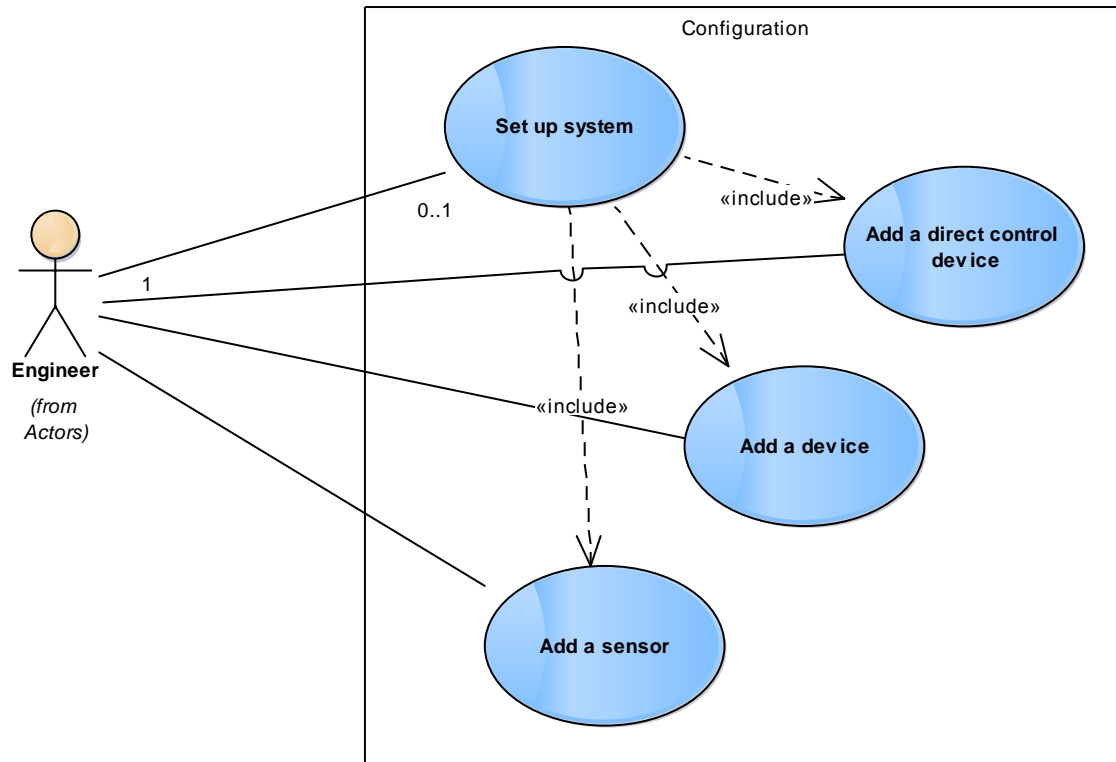


Add a new use case called *Add a direct control device*.

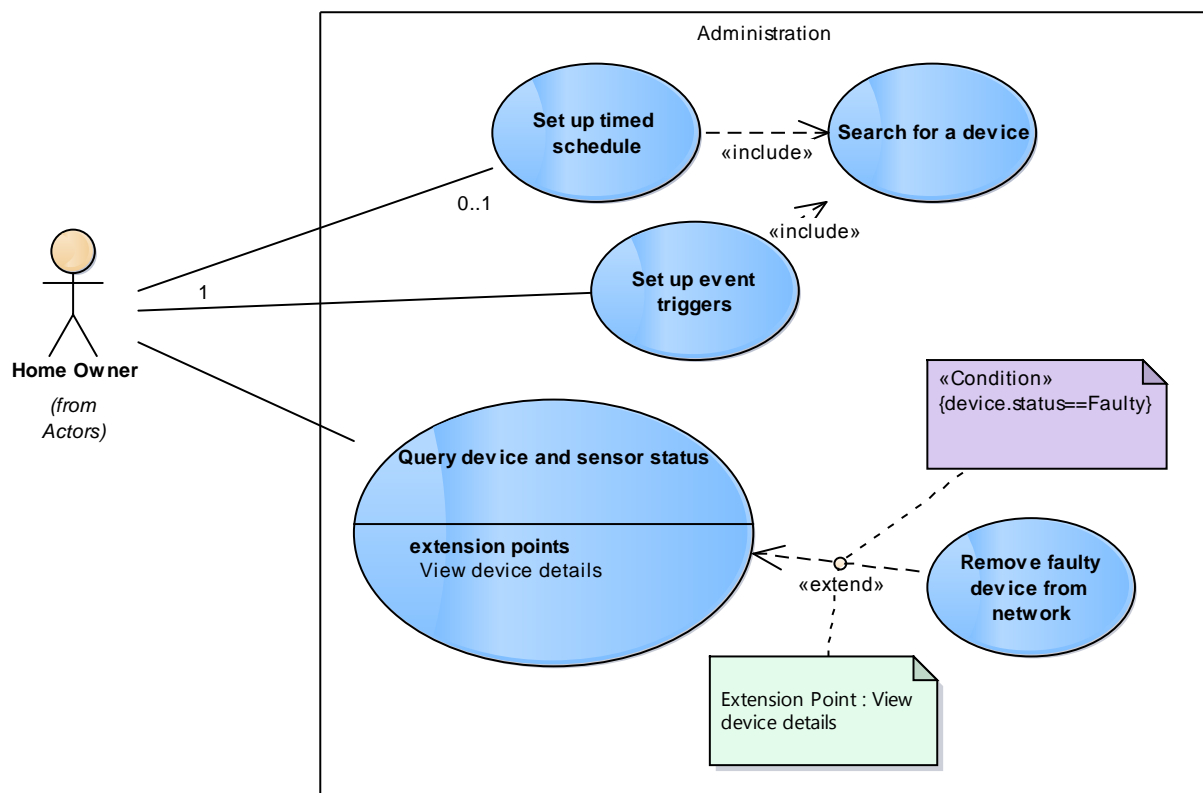
Add an association with the actor *Engineer*.

Create include relationships between *Set up system* and the other three use cases in this diagram.

Your diagram should now look something like this.



The *Administration* diagram should look like this.



Add a new use case called *Remove faulty sensor from network*.

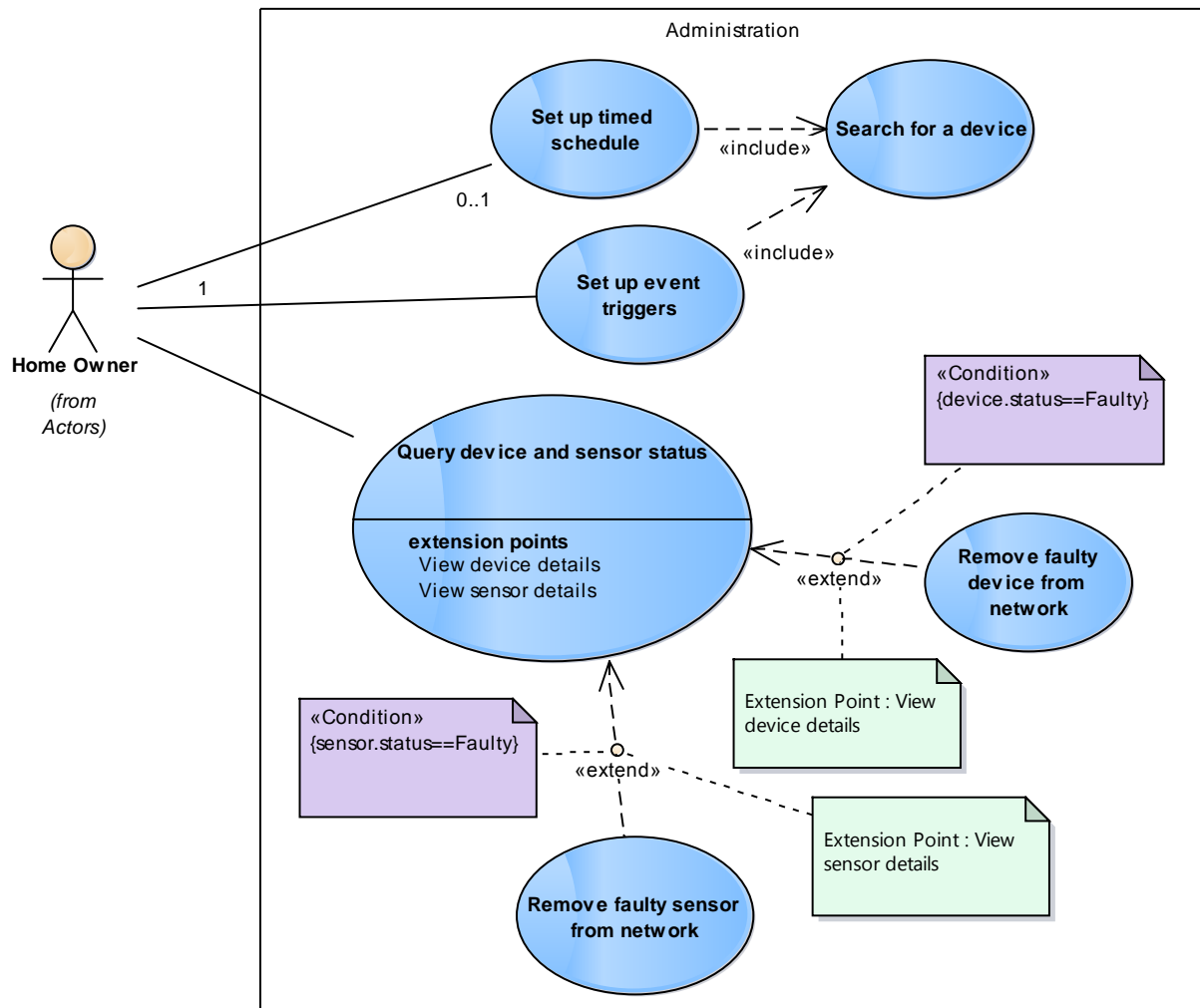
Create an extend relationship from the new use case to *Query device and sensor status*.

Add a new extension point to *Query device and sensor status* called *View sensor details*.

Link the extend relationship to this extension point.

Add a constraint note of the type *Condition* with the expression *sensor.status==Faulty*.

Your diagram should now look something like this.



You can hide or show the notes linked to the extension points by toggling Advanced > Extension Point > Show Extension Point on the extend relationships.