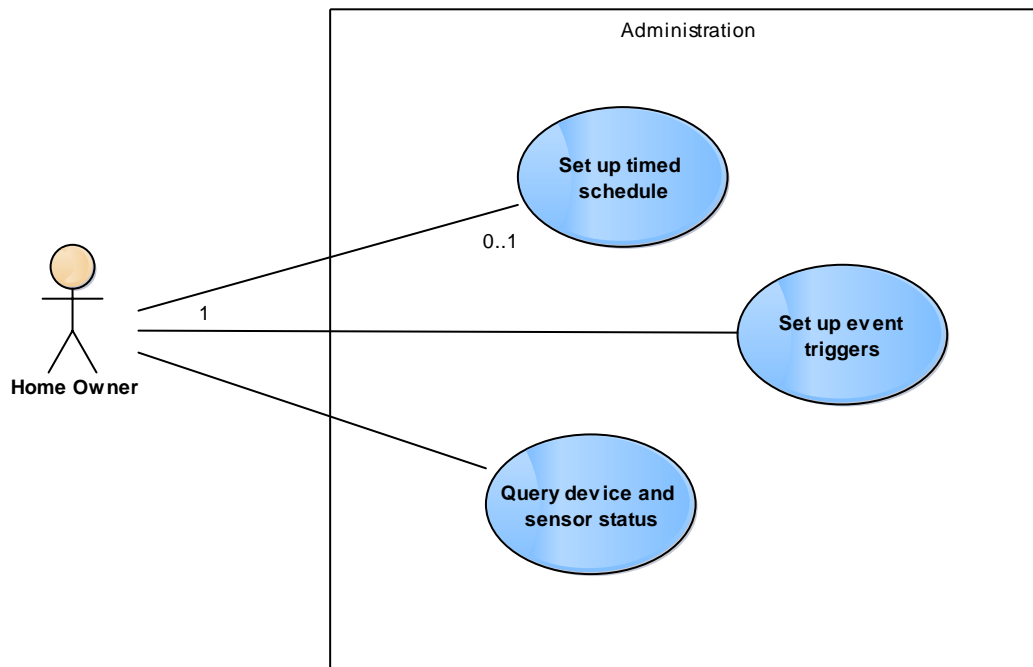


# Learning UML

O'Reilly

## Exercises – Use Cases and Actors

If you have followed along, your *Administration* 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:

Create two new packages under the *Use Cases* package called *Configuration* and *Running*, with a new use case diagram in each. Set them both to be stereotyped as «*subsystem*».

Drag the packages from the project browser into the package diagram called *Use Cases*, and lay them out in the diagram.

Open the *Configuration* use case diagram and add a subject/boundary called *Configuration*.

Within the subject add the three use cases: *Set up system*, *Add a device* and *Add a sensor*.

Add a note to each to summarise what you think its purpose is.

Add a new actor to the diagram called *Engineer*, with a note to say that *An Engineer is an employee of the company installing the system*.

Create associations between *Engineer* and each of your three use cases.

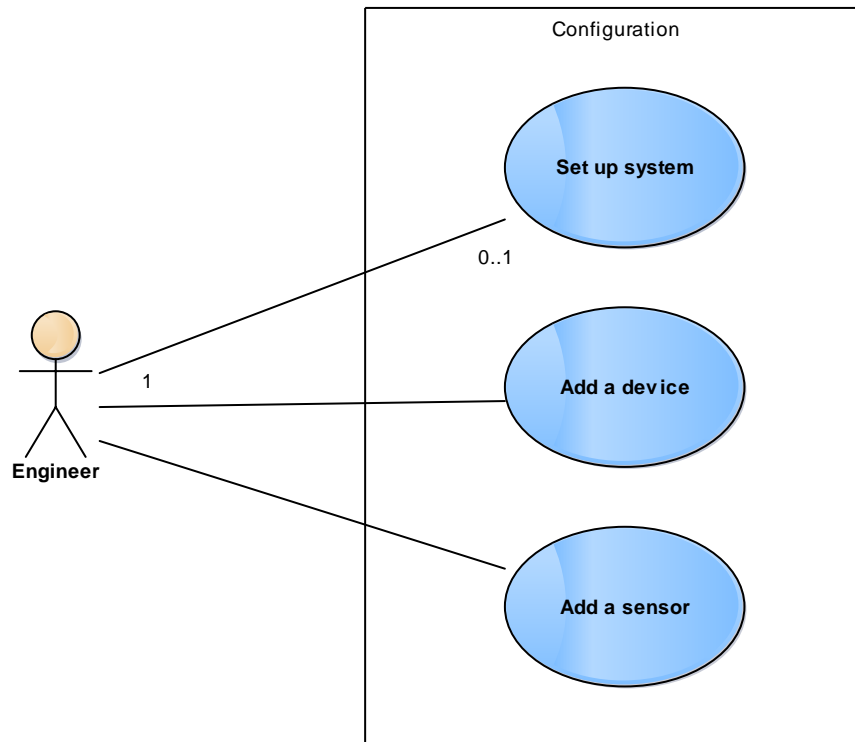
Set the multiplicities of the association between *Engineer* and *Set up system* to 1 at the actor end and 0..1 at the use case end.

Open the *Running* use case diagram and add a subject/boundary called *Running*.

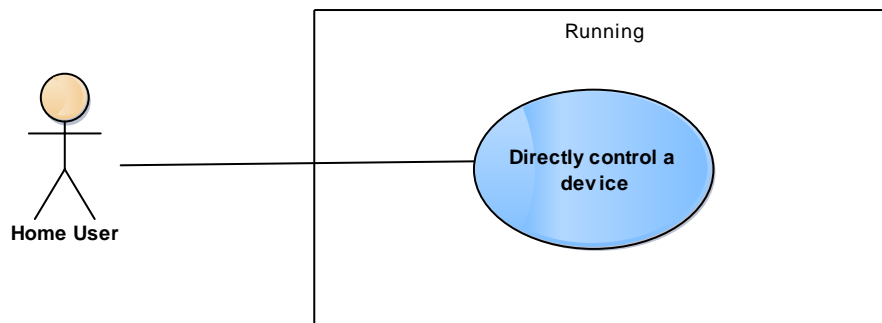
Within the subject add the use case: *Directly control device*.

Add an actor called *Home User* and add an association to the use case *Directly control device*.

Your *Configuration* diagram should look like this.



Your *Running* diagram should look like this.



Review the Use Cases package diagram. It should now look something like this.

