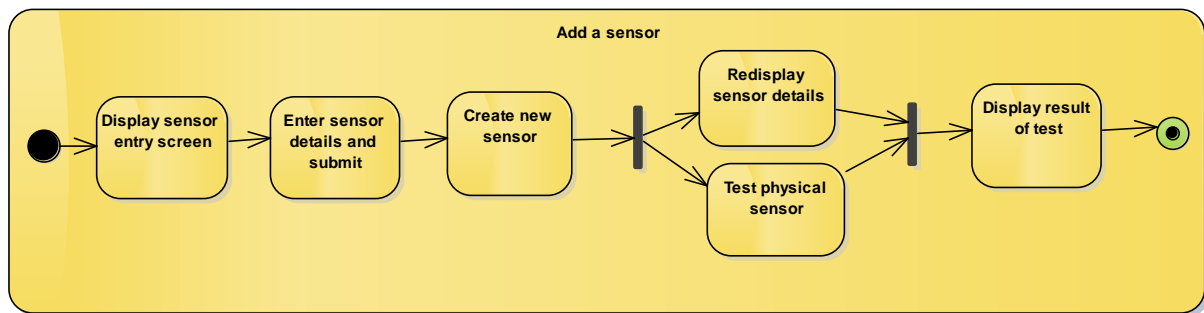# Learning UML

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Exercises – Swimlanes in Activity Diagrams

If you have followed along, you should have an activity diagram called *Add a sensor*.
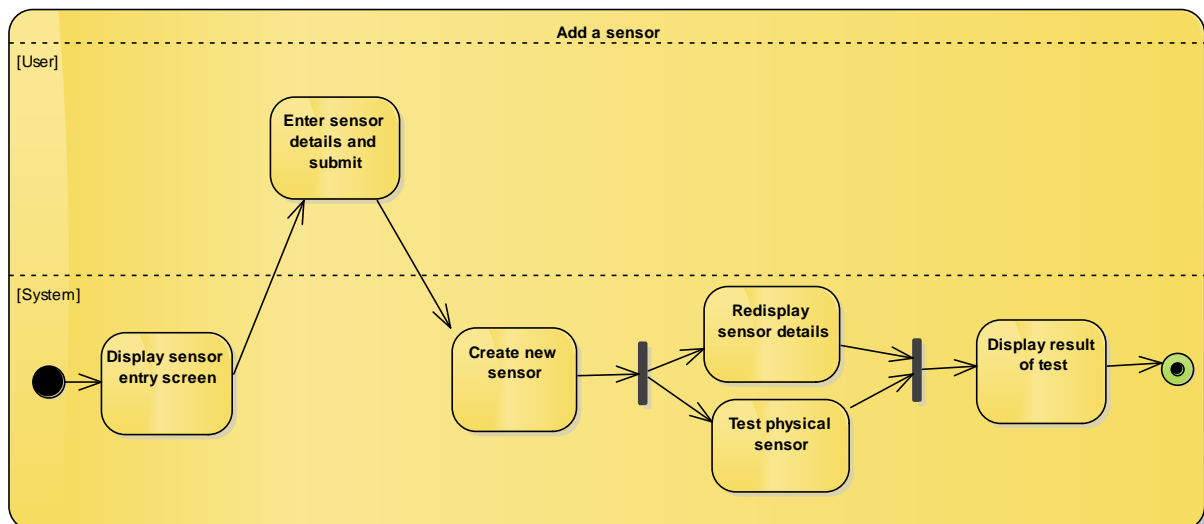

Now you are going to add partitions to this activity diagram.

Add two partitions called *User* and *System*.

Resize the activity *Add a sensor* and position the lines that divide the partitions appropriately.

Position the initial and final nodes and the activities that are the responsibility of the system in the *System* partition. Position the activity that is the responsibility of the user in the *User* partition.

Your diagram should look like this.

Select the use case *Add a sensor* in the Configuration use case diagram and add an activity diagram and call it *Add a sensor (Swimlanes)*.

Add two partitions called *User* and *System* and position them so that the activity diagram will flow down the page.

Add an initial node and the following activities and connect them with control flows:

Display sensor entry screen
Enter sensor details and submit
Create new sensor

Add a fork node and a join node.

Add the two activities:

Redisplay sensor details
Test physical sensor

Connect the activities to the fork and join nodes in parallel.

Add an activity *Display result of test* and an activity final node. Join the nodes and activities together so you have a connected workflow.

Your diagram should look something like this.