

UP Elaboration

#2 OOD

10팀

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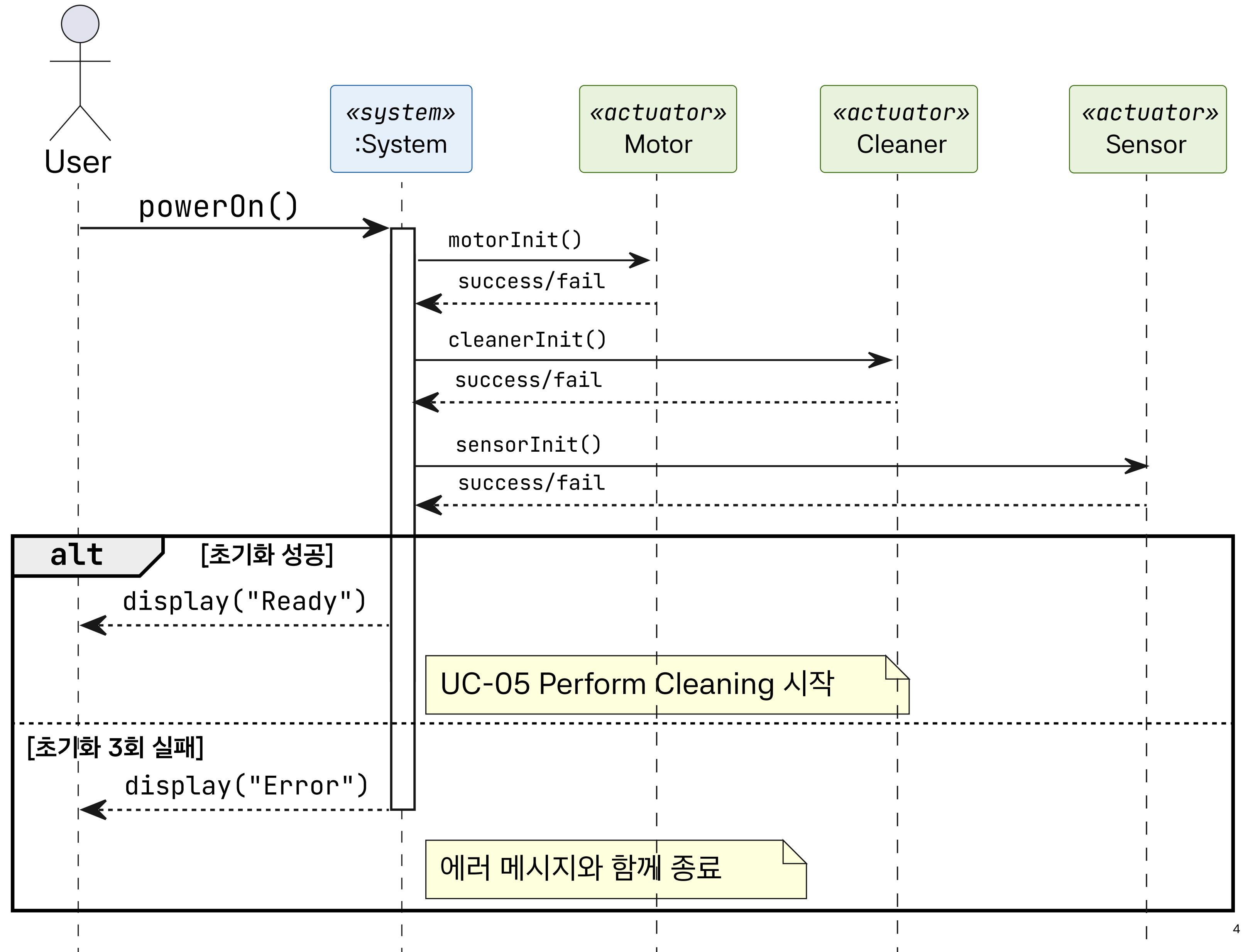
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Refinements

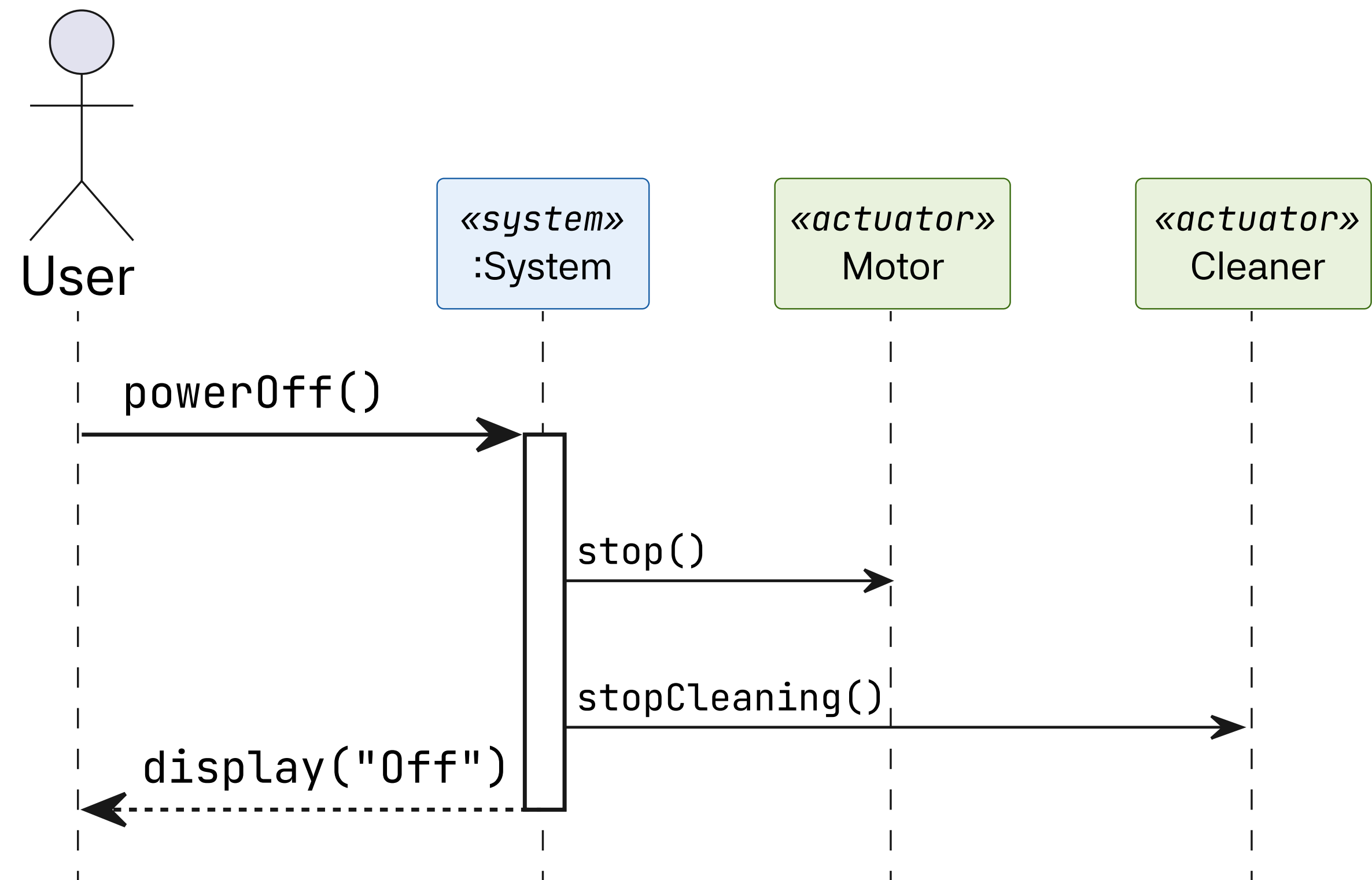
Power On

* Motor, Cleaner, Sensor 추가



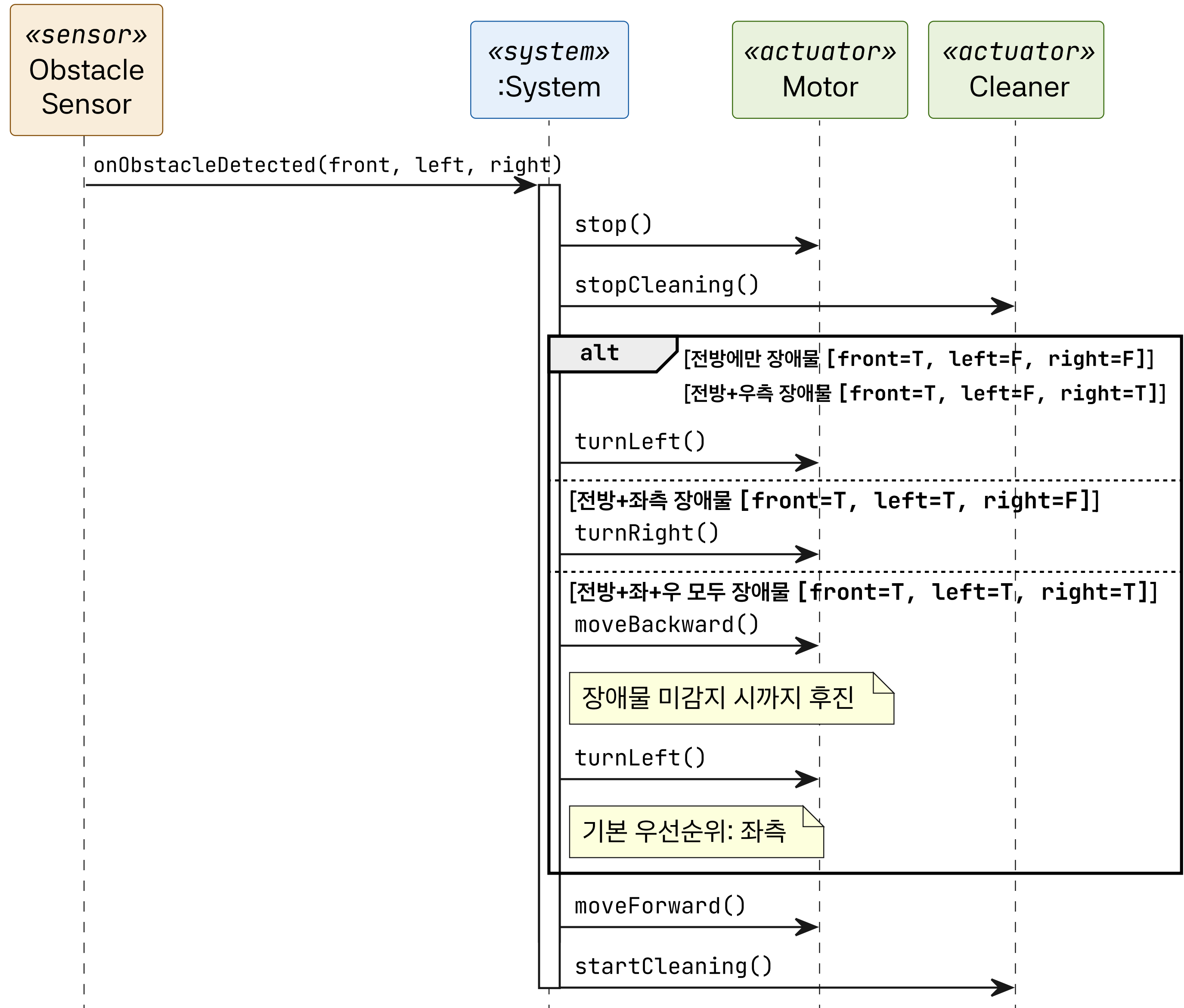
Power Off

* Motor, Cleaner 추가



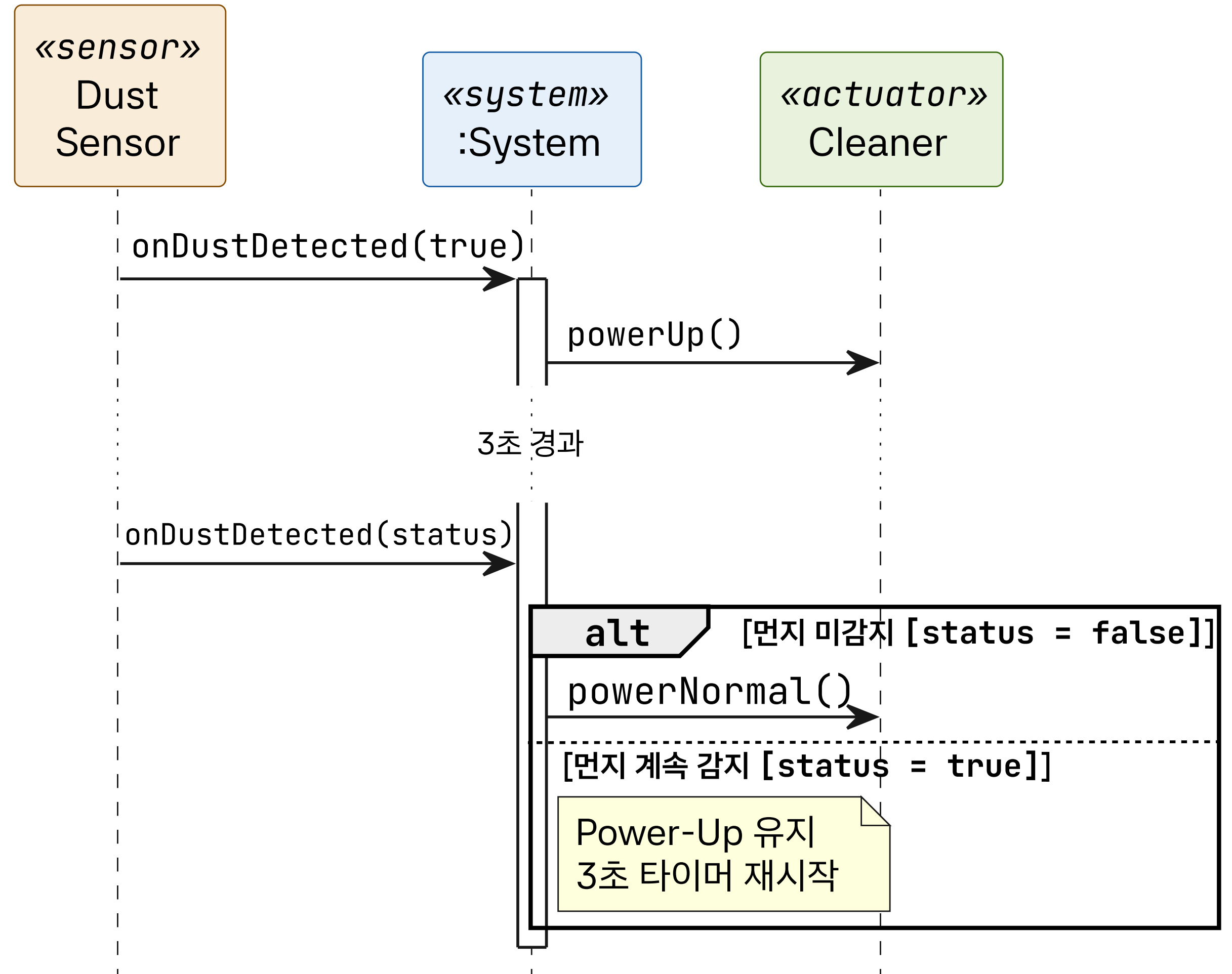
Avoid Obstacles

* onObstacleDetected 로 함수명 변경



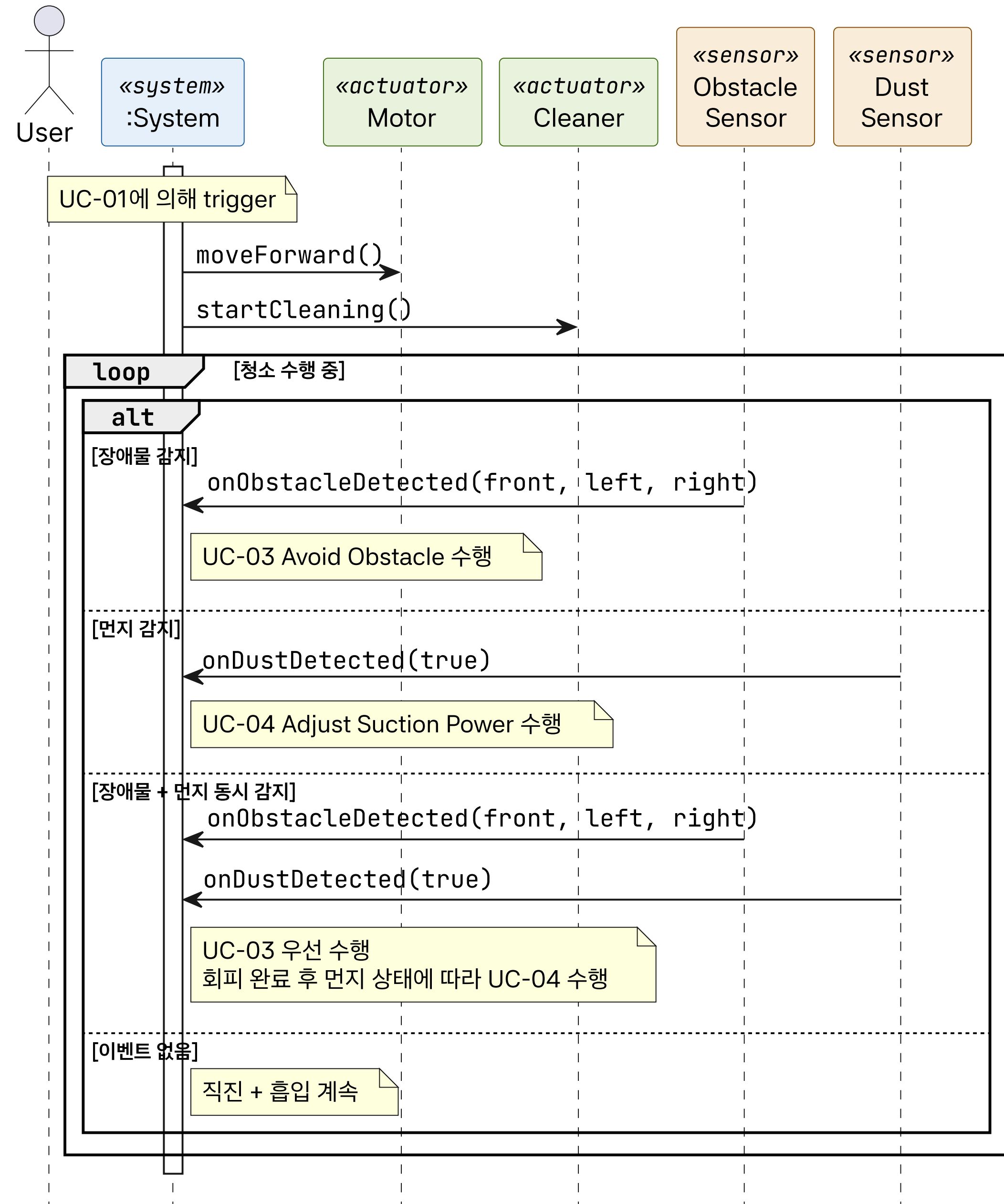
Adjust Suction Power

* onObstacleDetected, onDustDetected 로 함수명 변경



Perform Cleaning

* onObstacleDetected, onDustDetected 로 함수명 변경

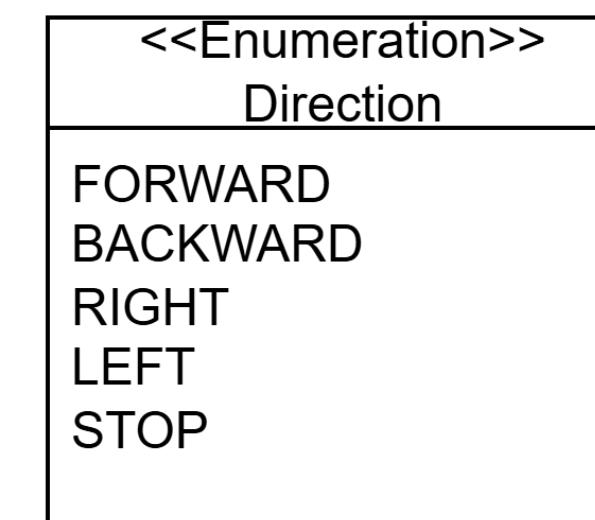
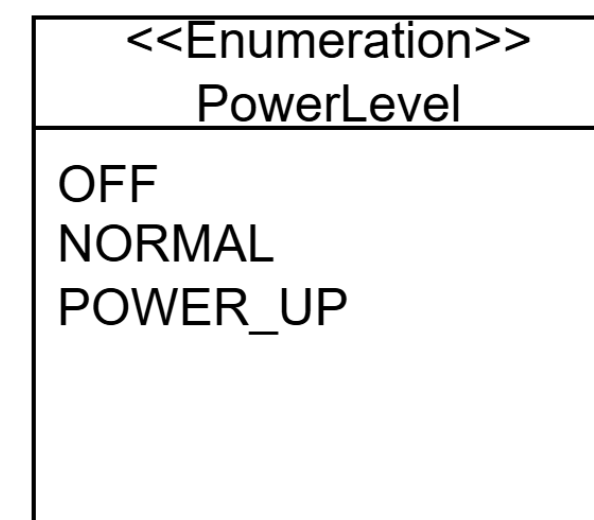
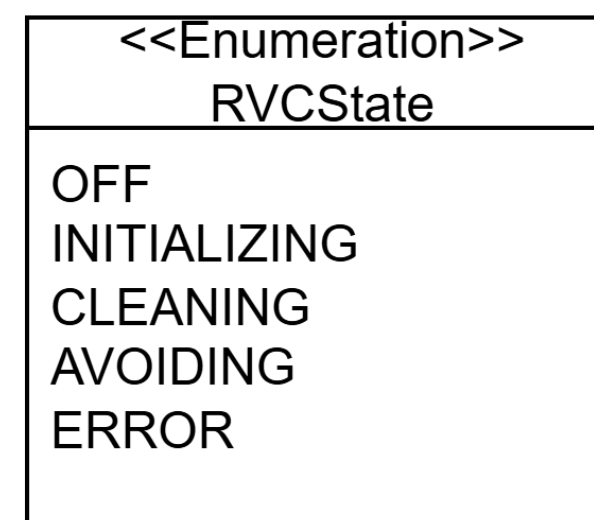
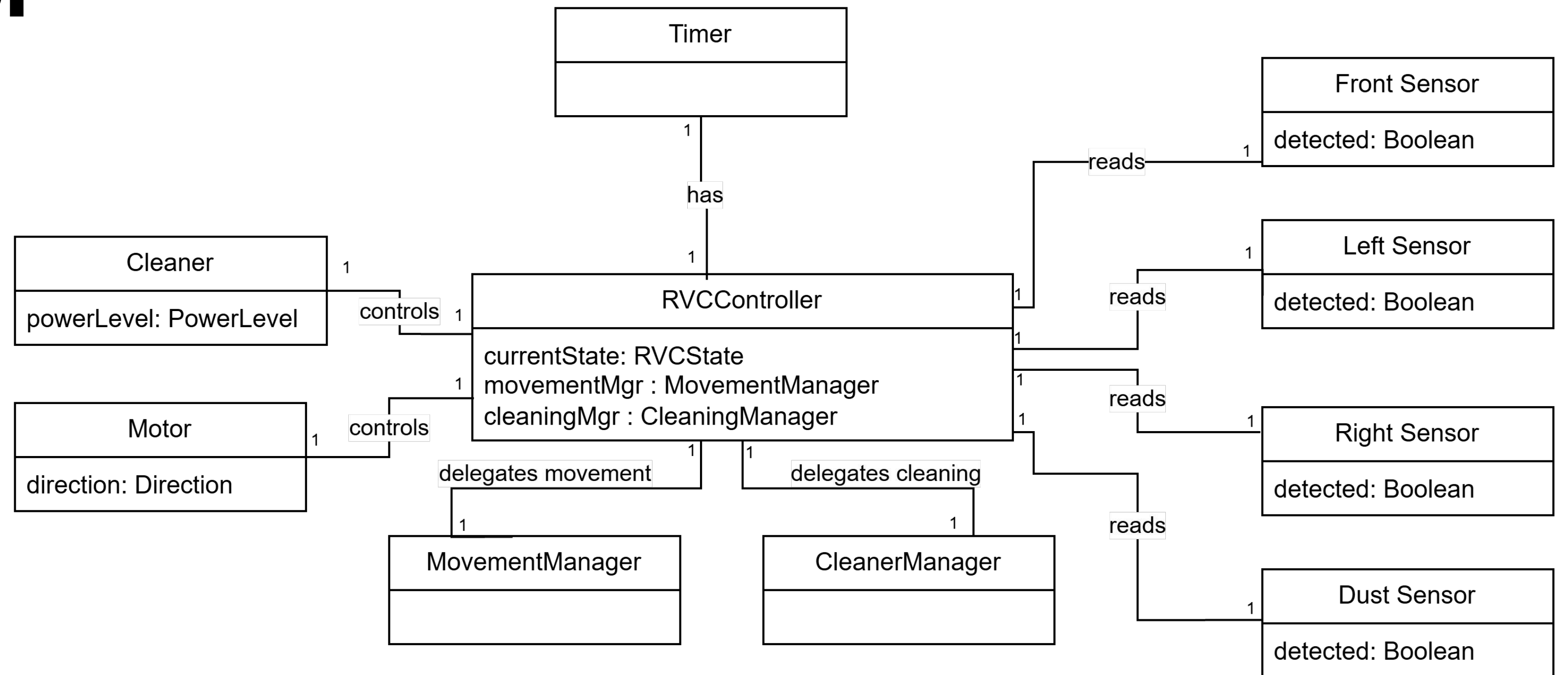


System Operations

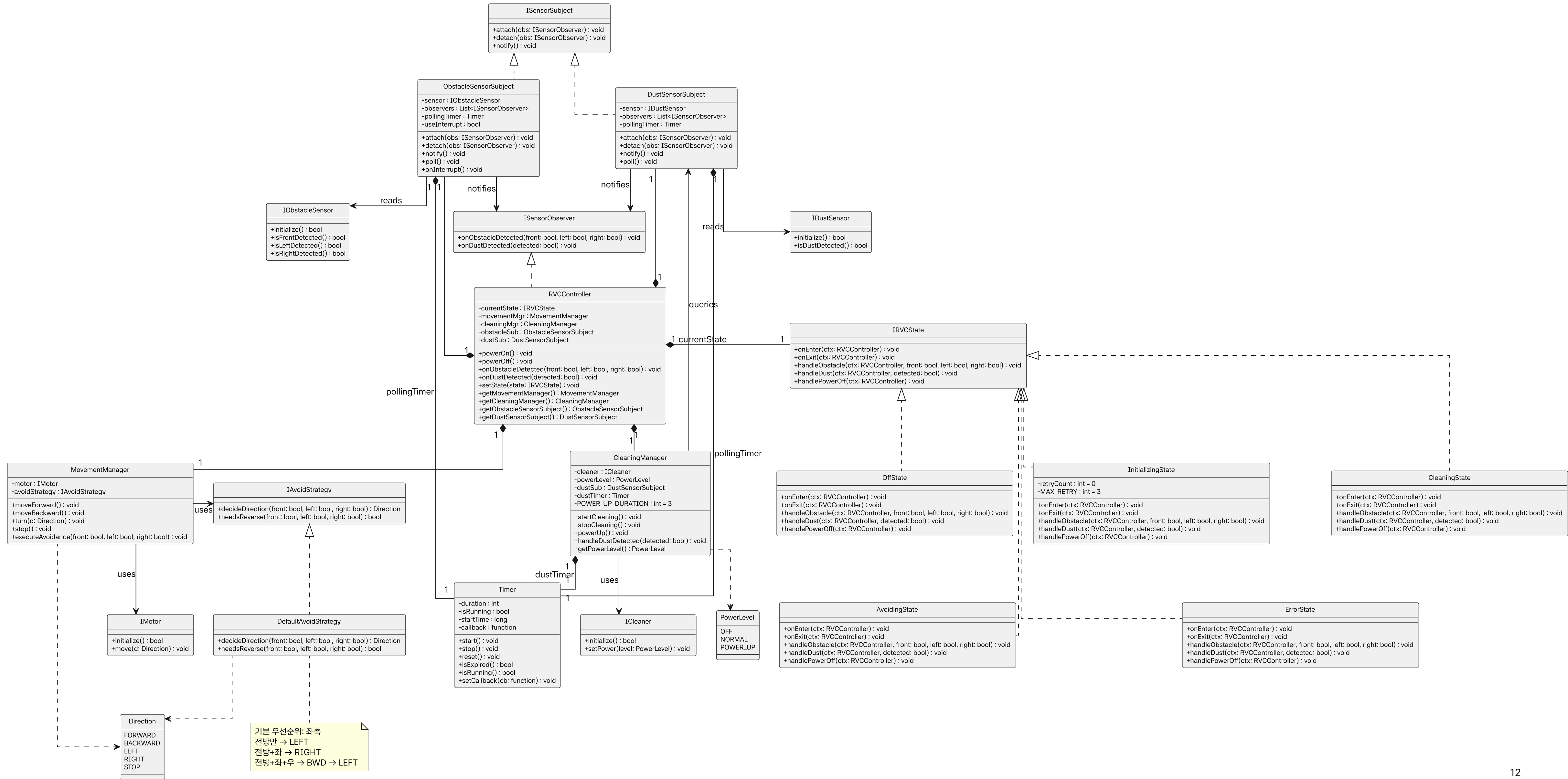
System Operations

```
+ powerOn()  
+ powerOff()  
+ onObstacleDetected(front: bool, left: bool, right: bool)  
+ onDustDetected(detected: bool)
```

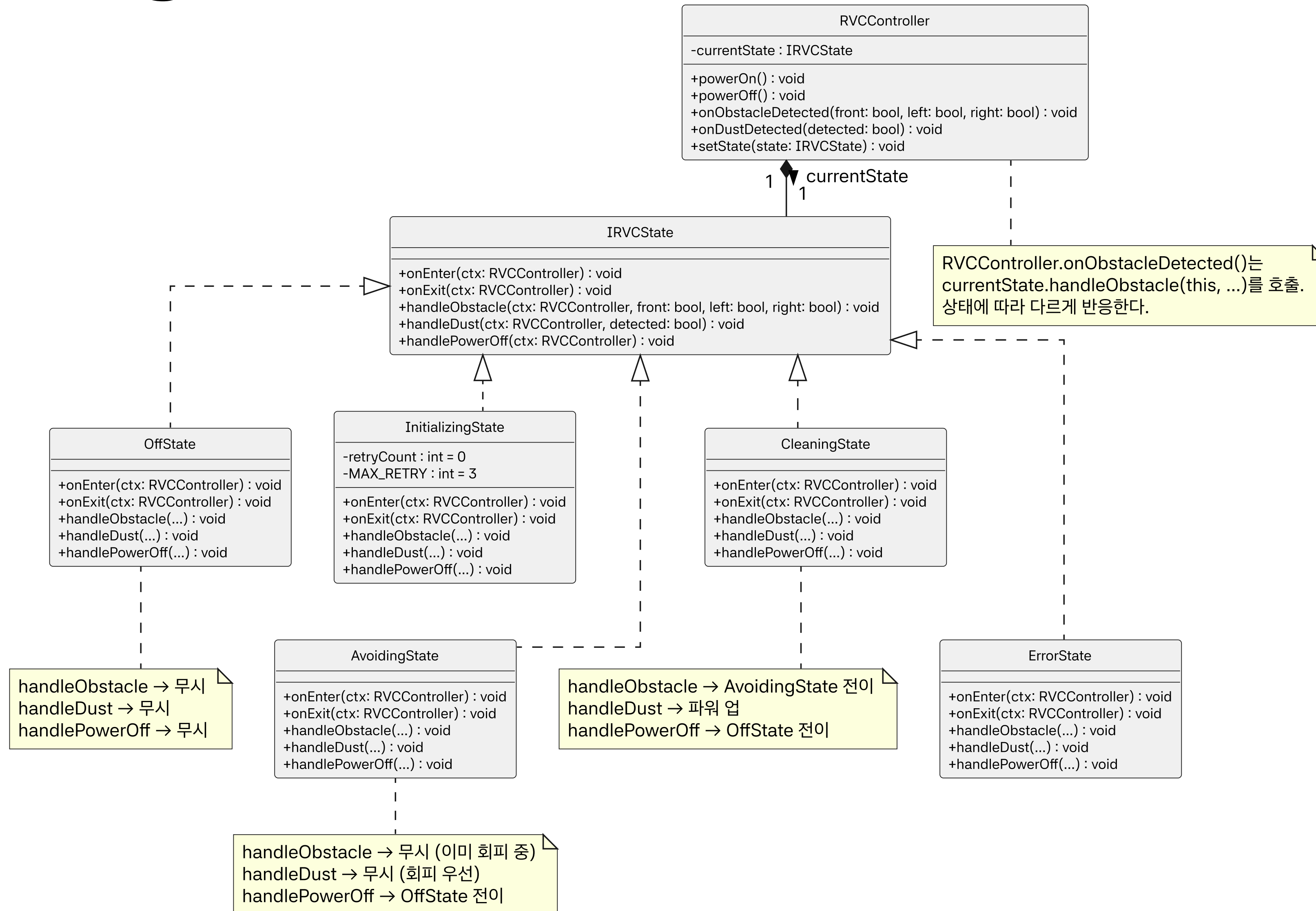
Domain Model Diagram



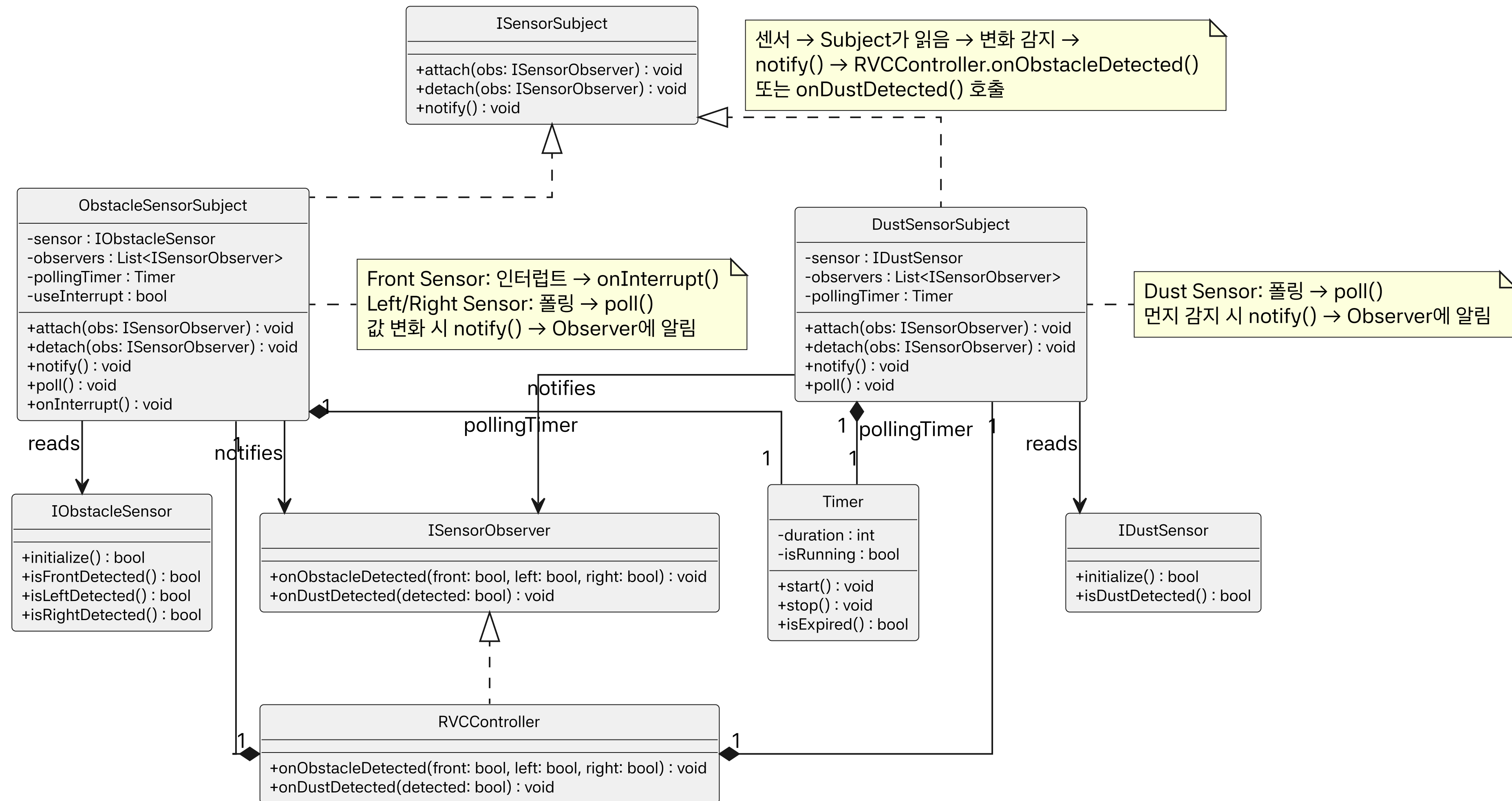
Class Diagram



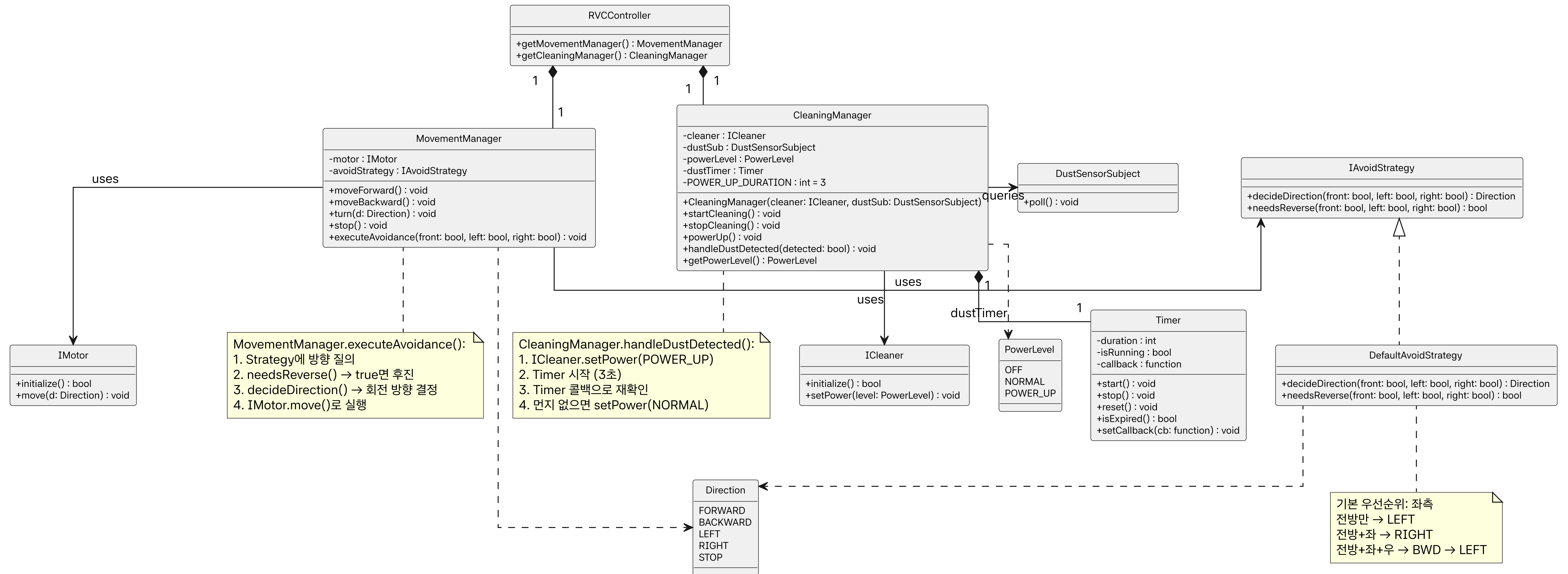
Class Diagram – State Pattern



Class Diagram – Observer Pattern

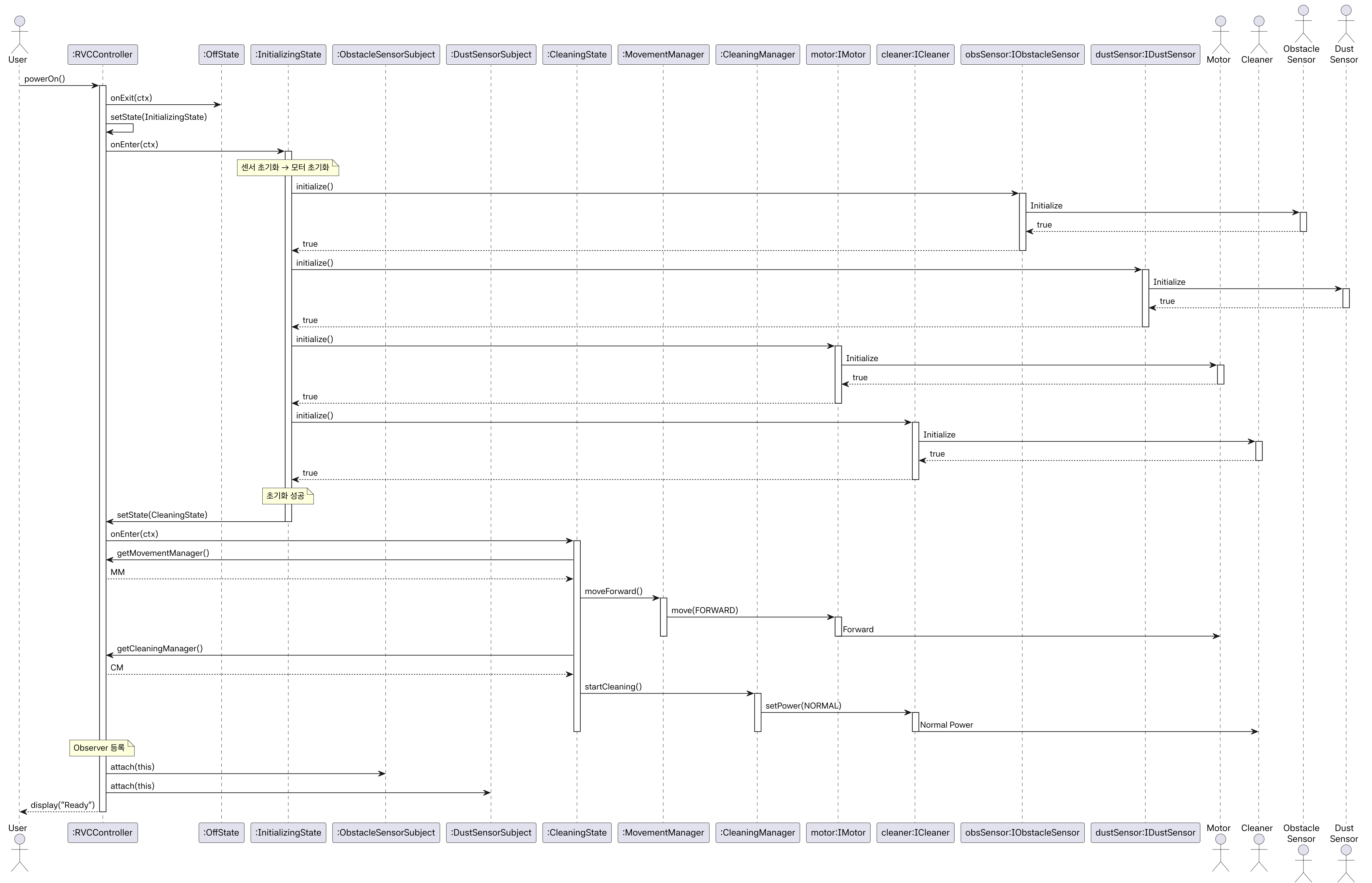


Class Diagram – Others

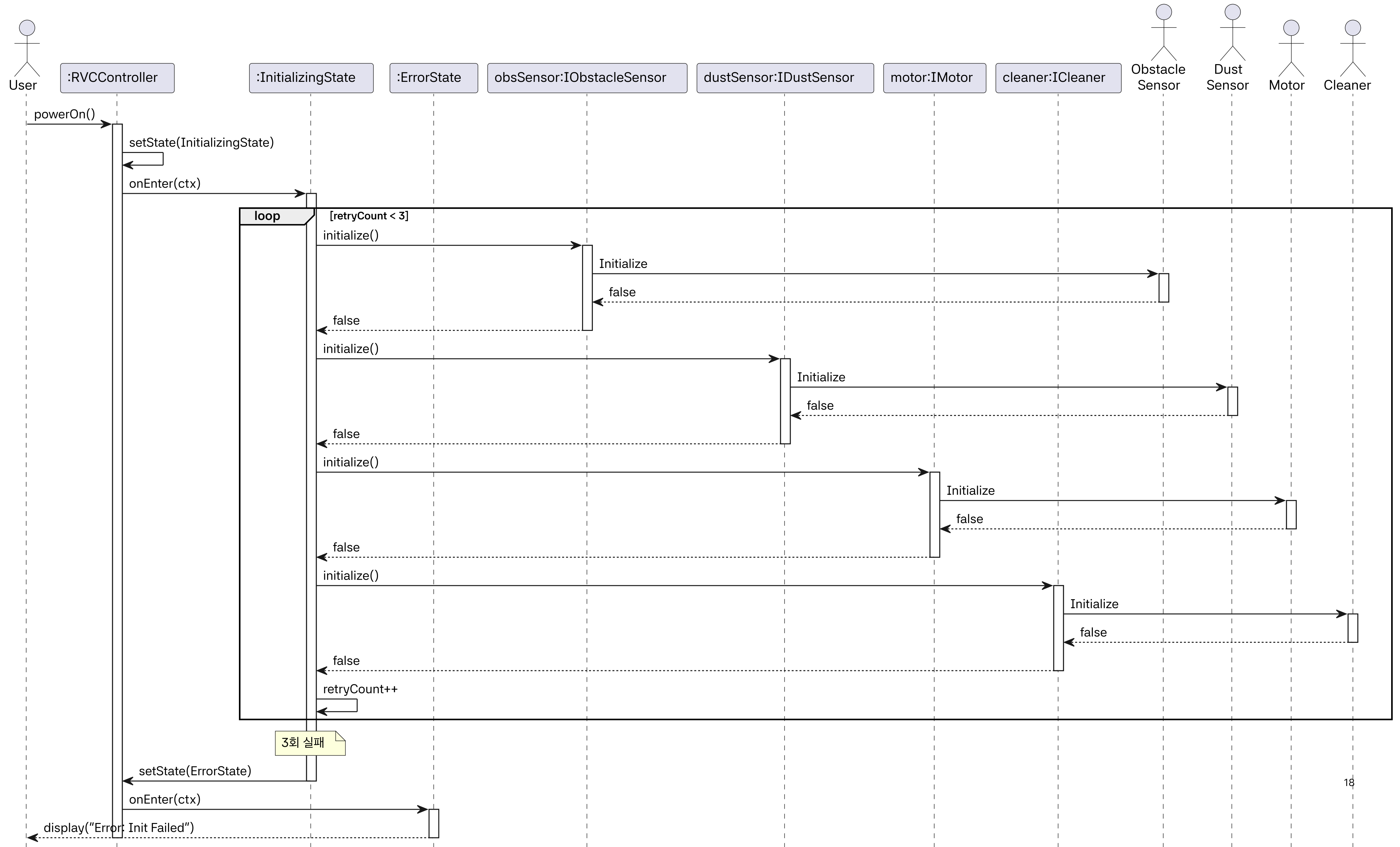


Sequence Diagram

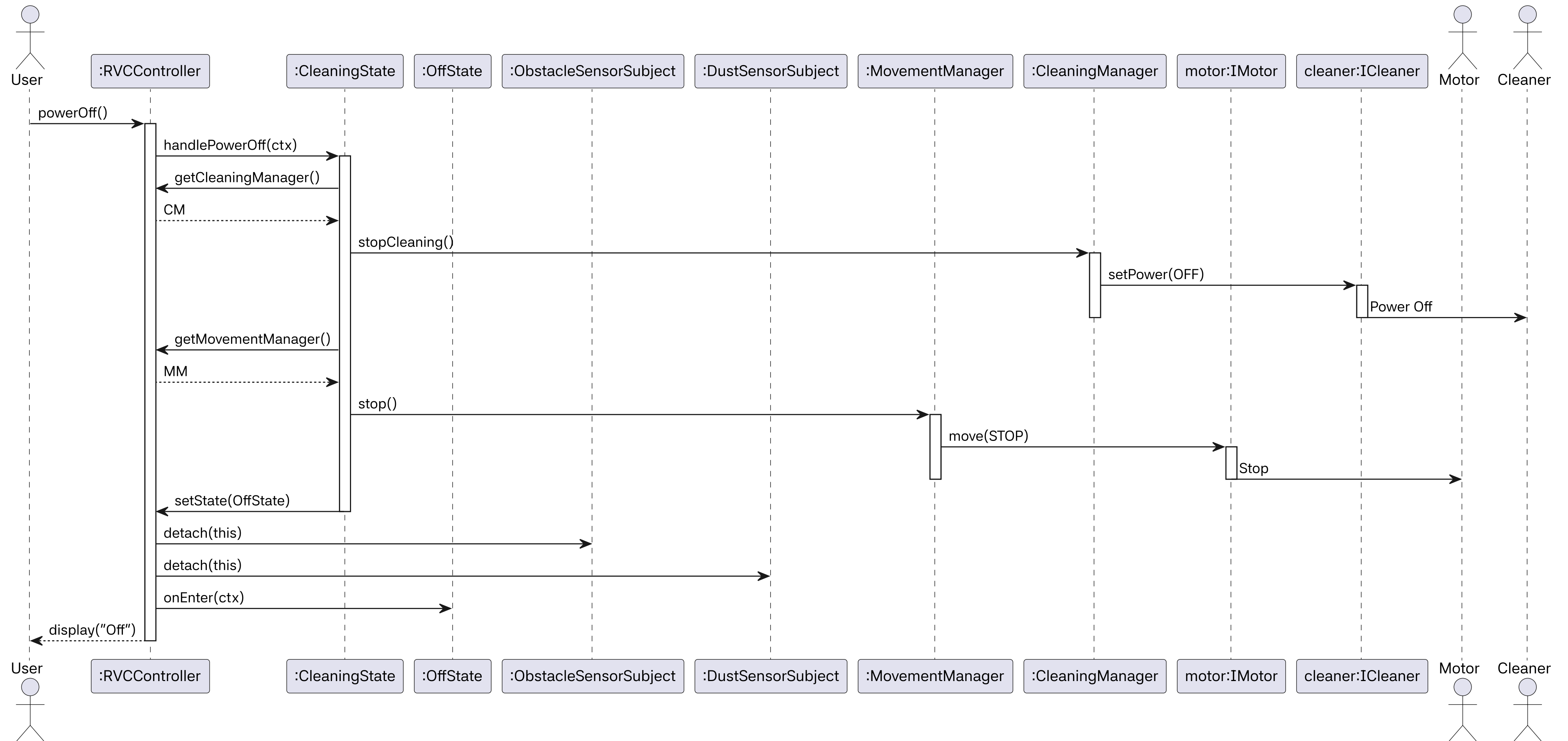
SD-01 - Success



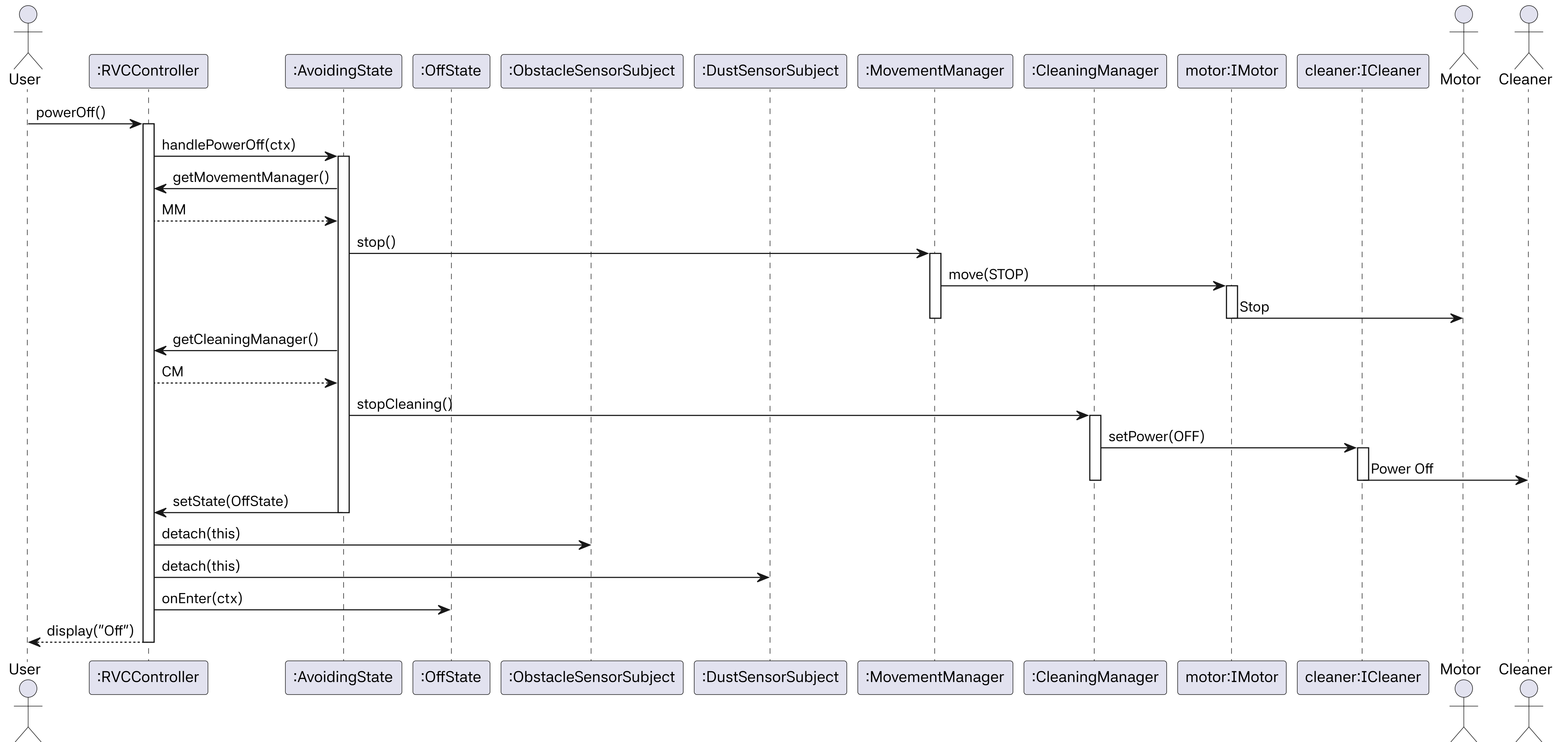
SD-01 - Fail



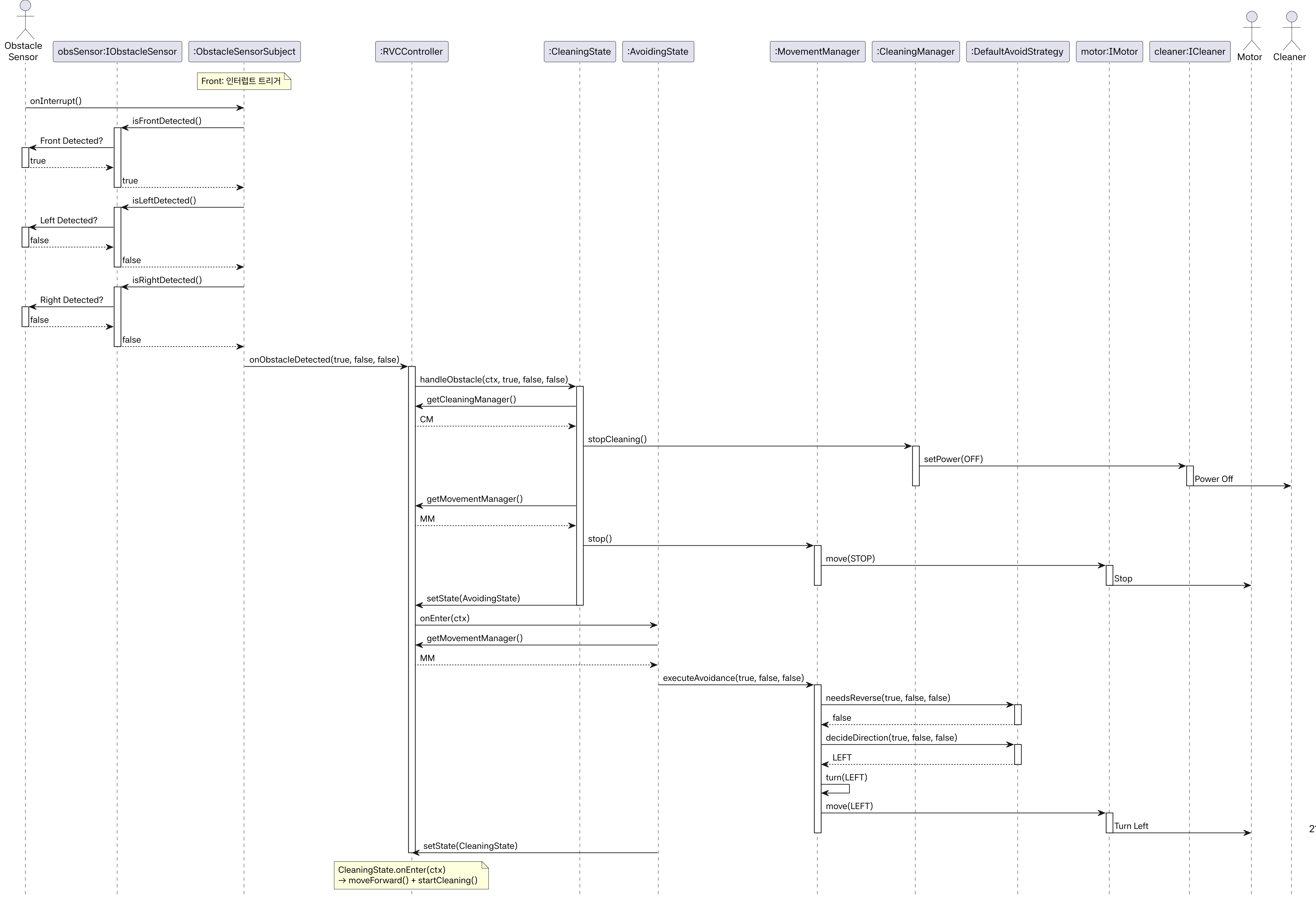
SD-02 – CleaningState



SD-02 – AvoidingState

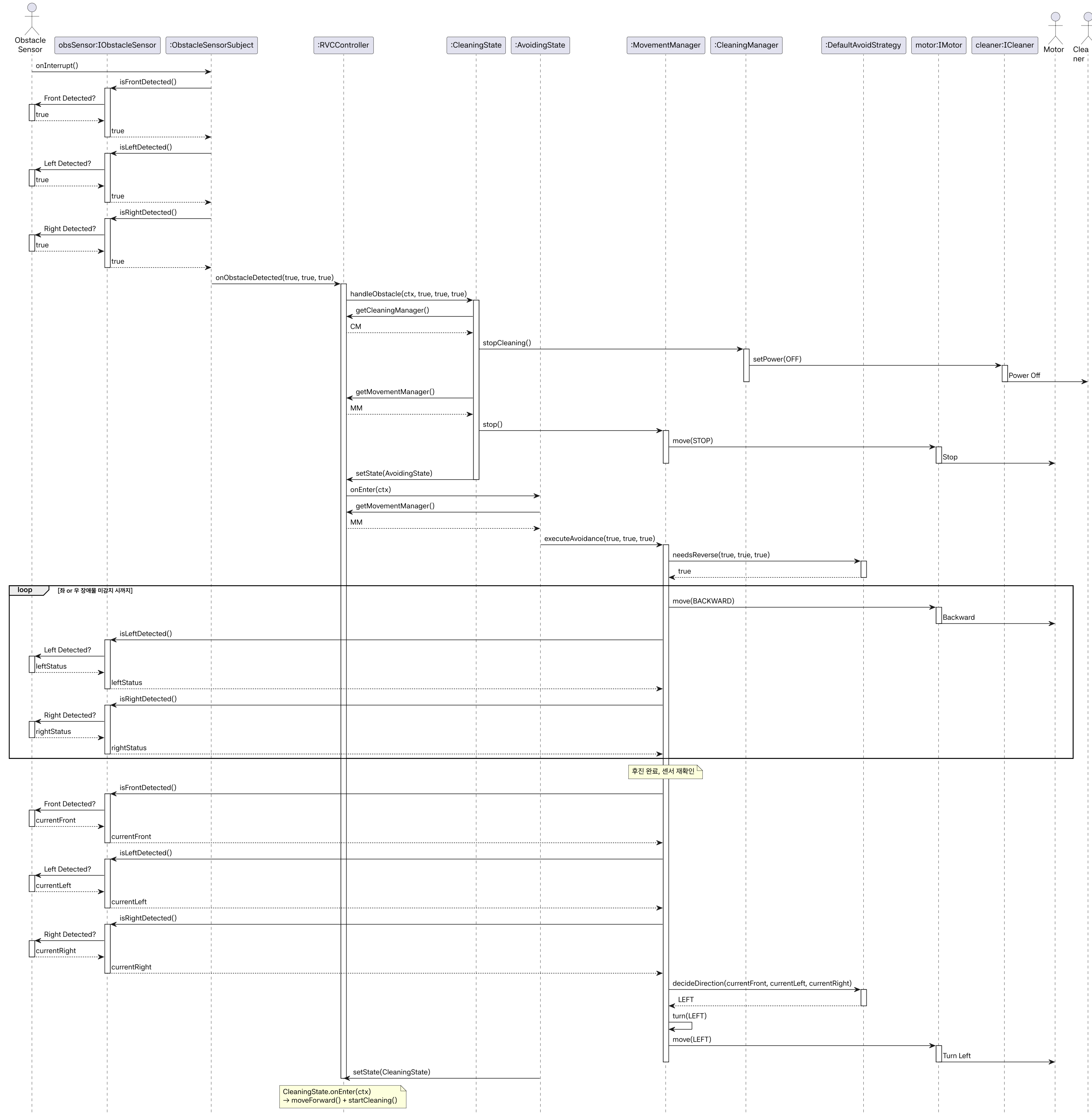


SD-03

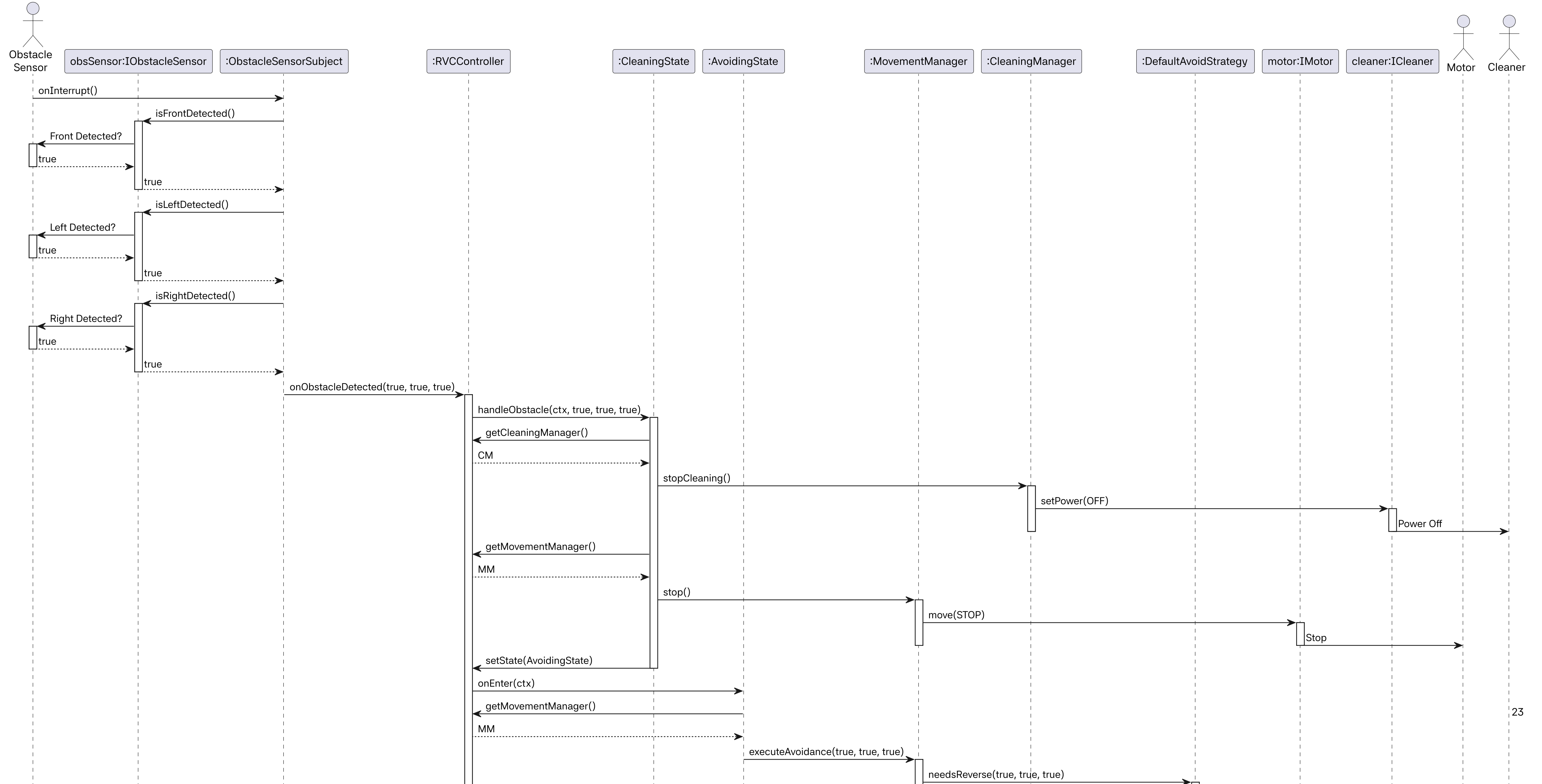


SD-03

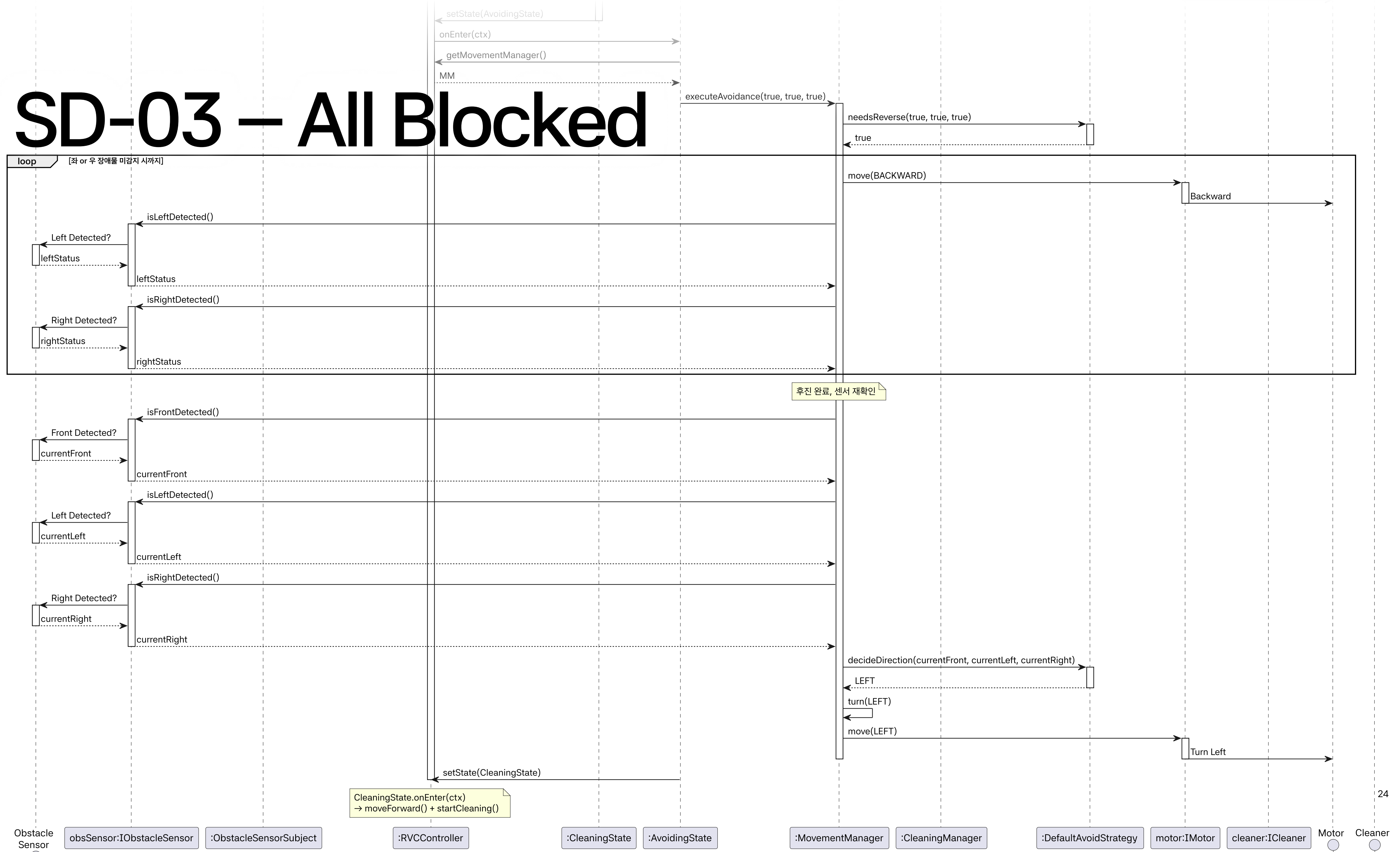
All Blocked



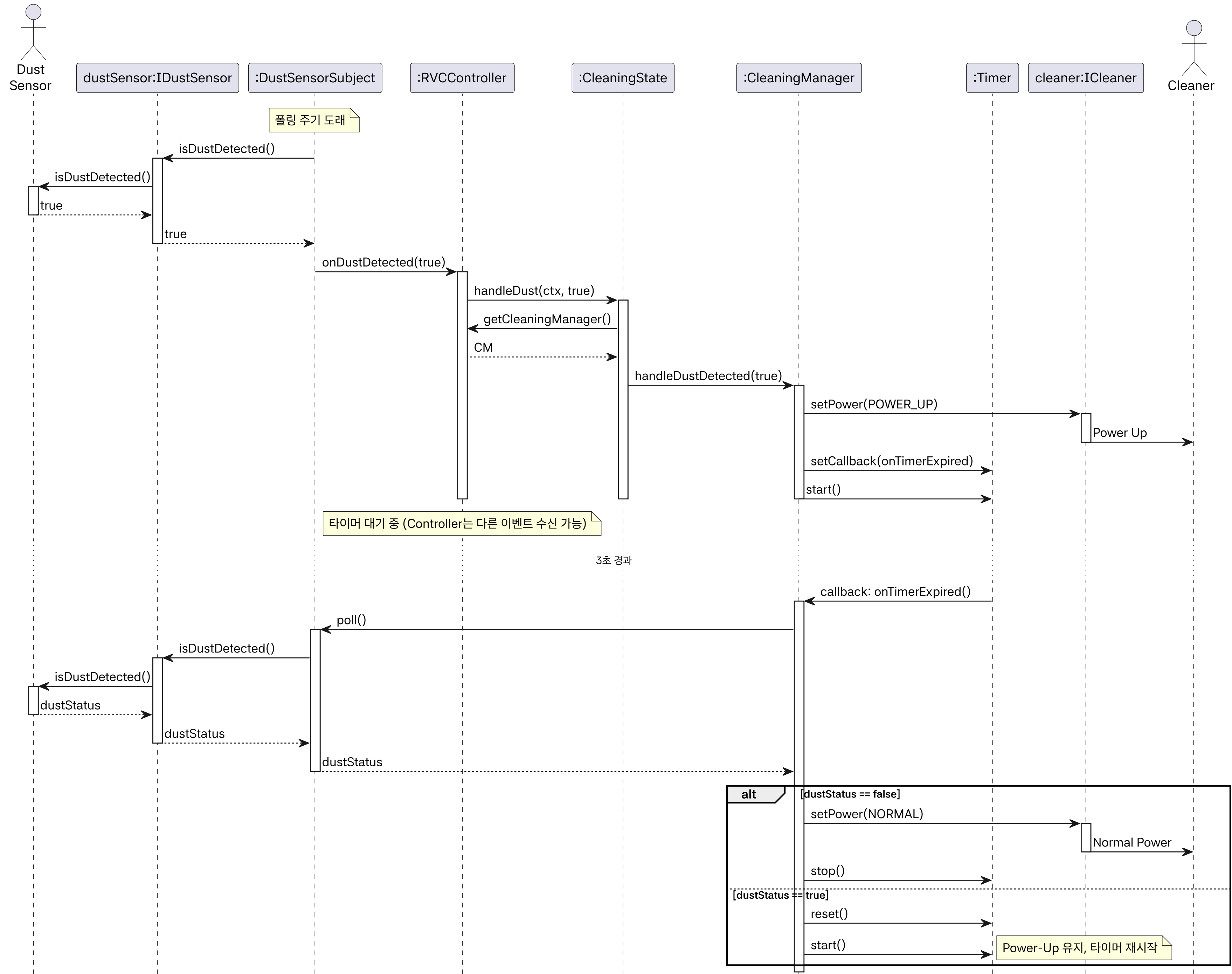
SD-03 – All Blocked



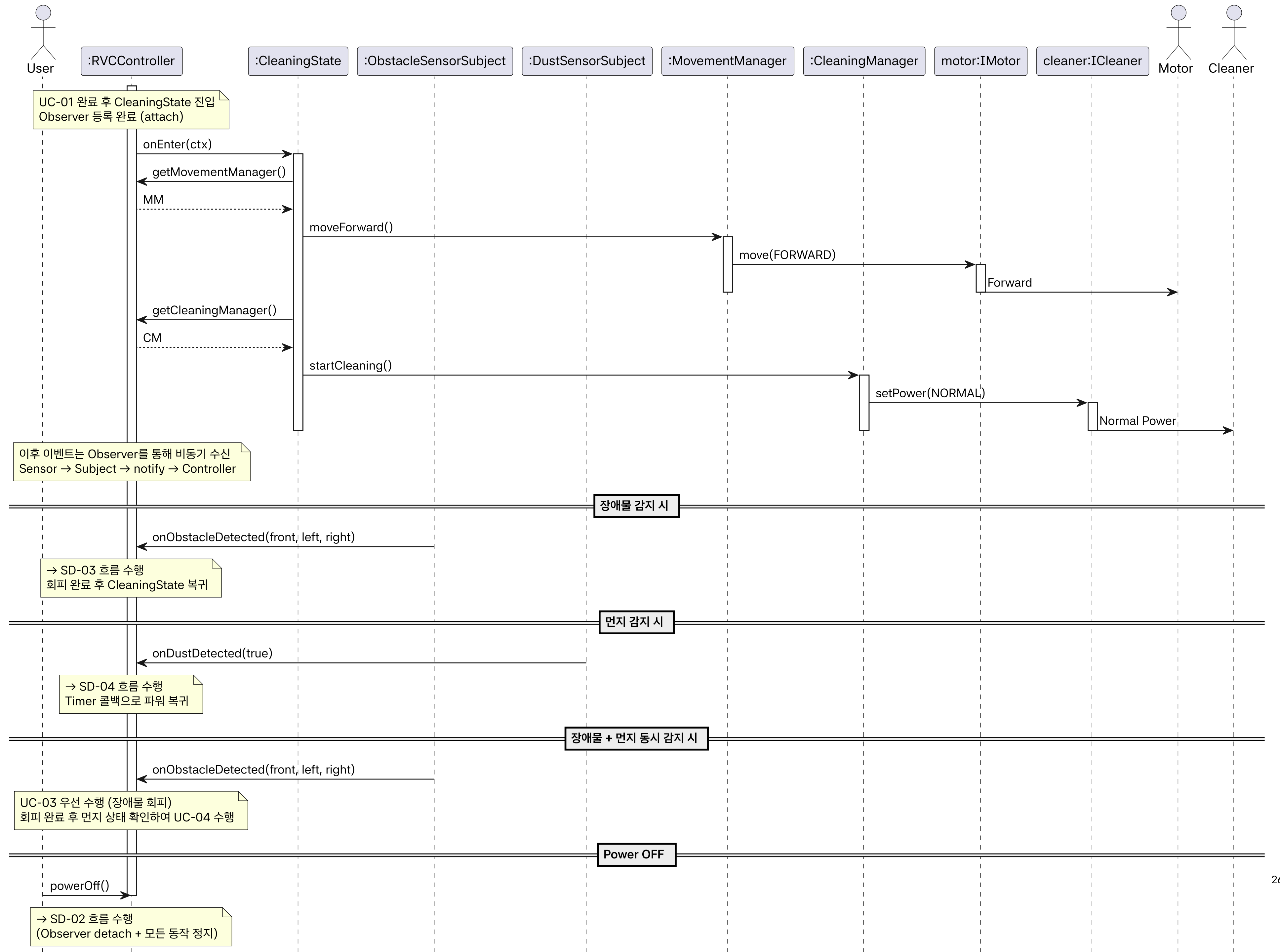
SD-03 – All Blocked



SD-04



SD-05



Q&A