Mediator

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Overview

Motivation

SmartHome Demo

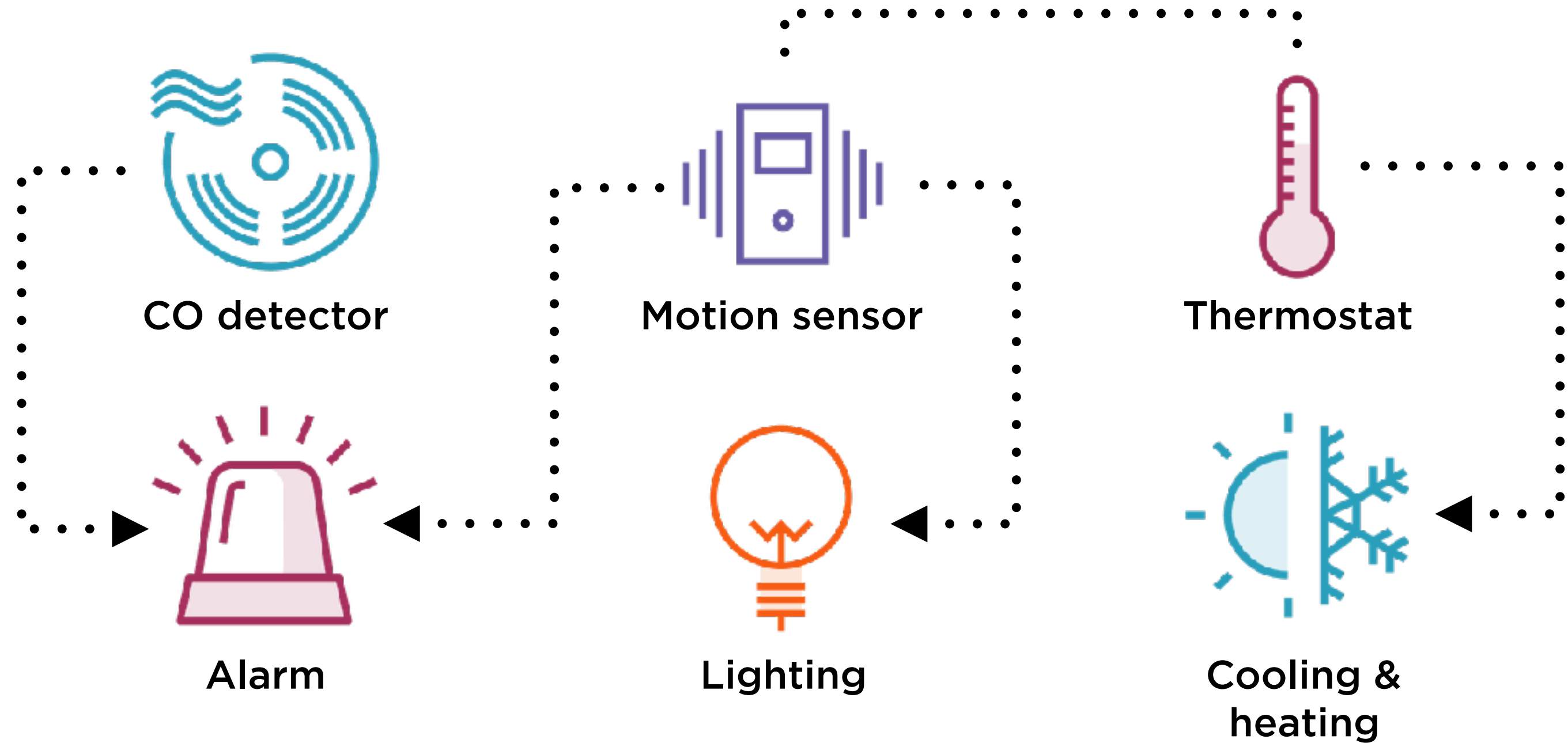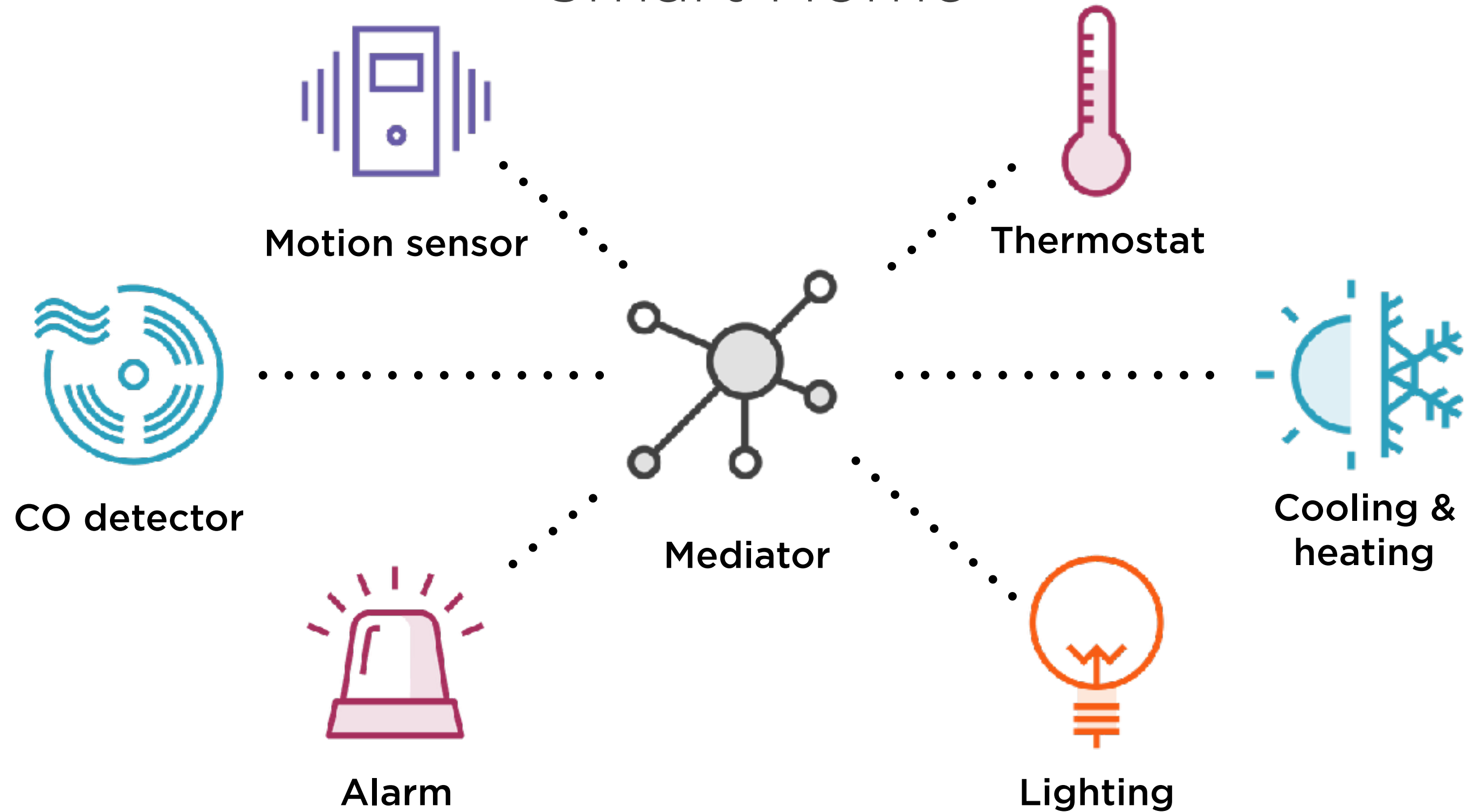 - Simplify and decouple objects

Motivation

Simplifies communication

- Introduces a middleman

- Objects communicate with the mediator

- Promotes loose coupling

- Increases reusability

Smart Home

CO detector

Motion sensor

Thermostat

Alarm

Lighting

Cooling & heating

Smart Home

Motion sensor

Thermostat

CO detector

Mediator

Cooling & heating

Alarm

Lighting

Mediator

Encapsulates how objects interact and promotes loose coupling by keeping objects from referring to each other explicitly.

Demo

SmartHome demo

- Start with a tightly coupled design

- Refactor using the mediator pattern

Summary

The Mediator design pattern:

- Promotes loose coupling and reusability

- Objects communicate with the mediator

- The Mediator contains the control logic

Pitfalls

- The Mediator may become overly complex