# C# Design Patterns: Mediator

### MEDIATOR PATTERN



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# Course Overview

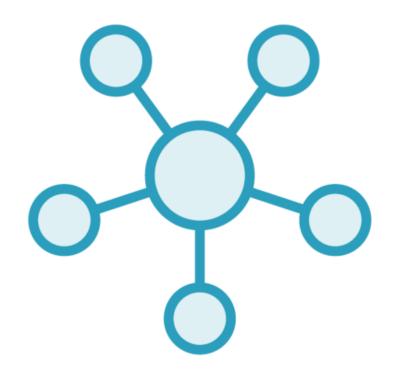


Understanding the Mediator Pattern
Implementing Mediator
Mediator Examples



# What is the Mediator Pattern?





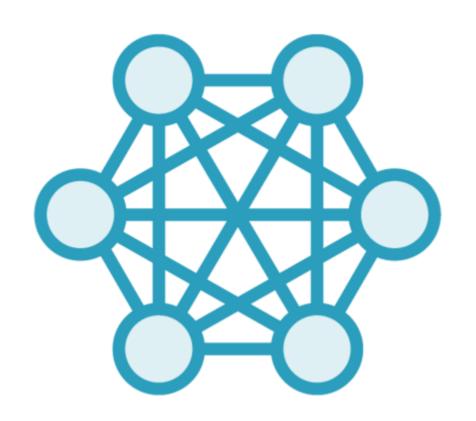
Encapsulate how objects interact

Promote loose coupling between objects

Mediator avoids objects referring to each other

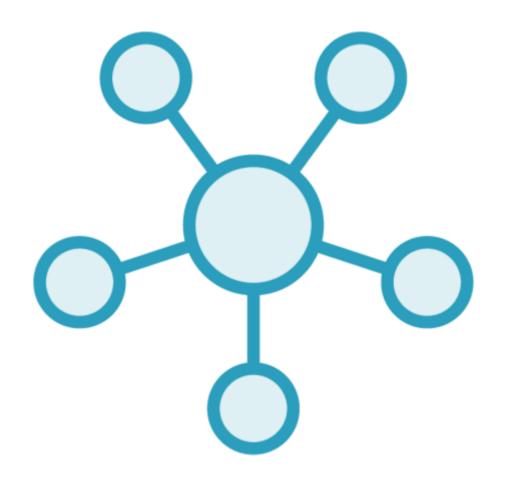


# Communication - Between Objects





# Communication - Mediator





### Composite Pattern Characteristics

#### Mediator

I define communication between colleagues

### Colleague

I communicate only with the Mediator

#### **Concrete Mediator**

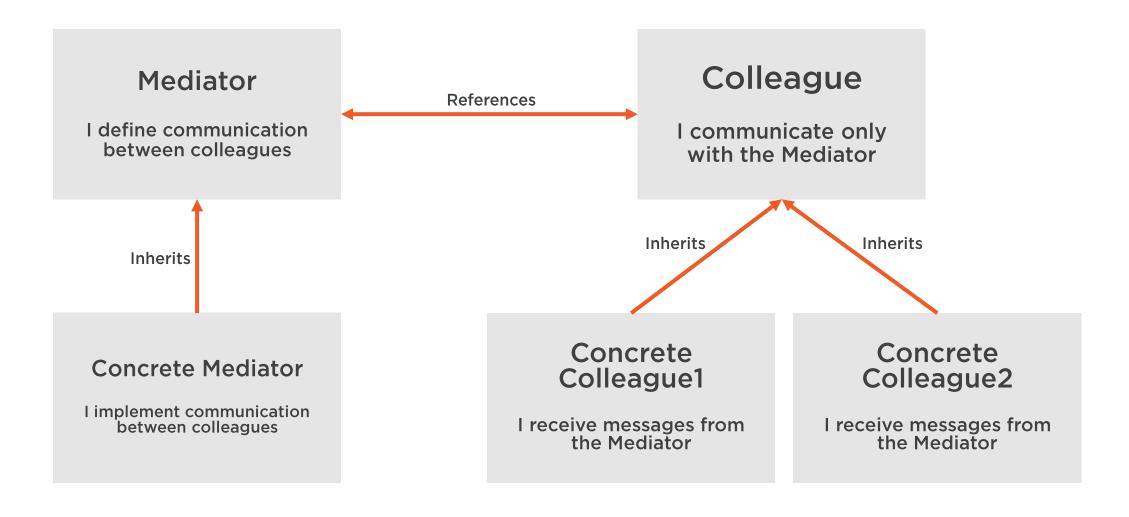
I implement communication between colleagues

### **Concrete Colleague**

I receive messages from the mediator

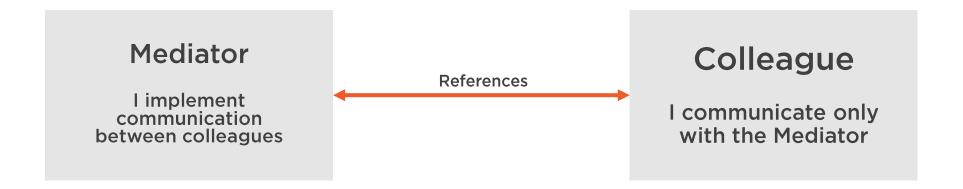


### Mediator Pattern Characteristics





### Mediator Pattern Characteristics





# Encapsulate object interaction with loose coupling





Mediator Pattern - Structural example





**Alternative Considerations** 

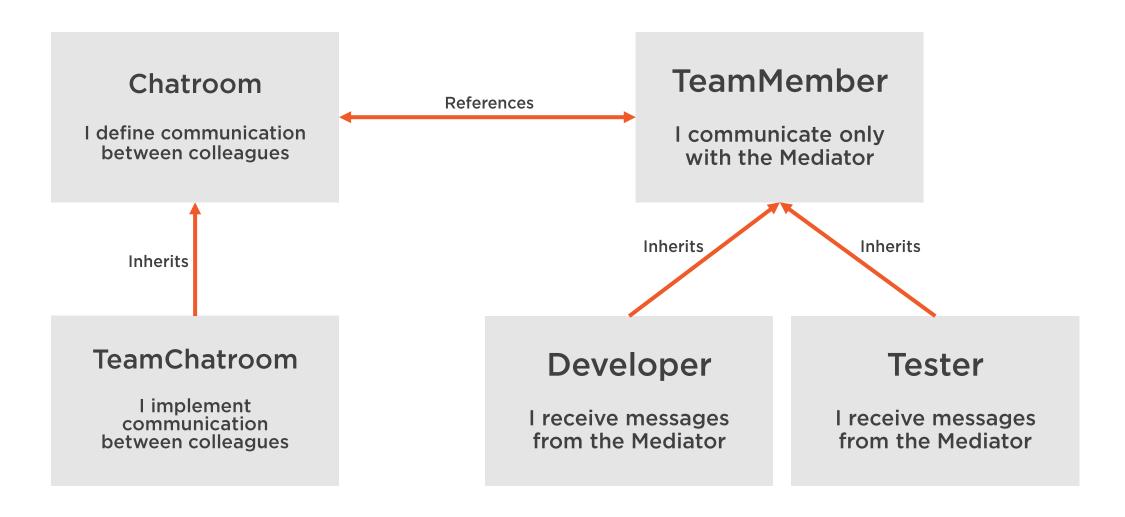




Real World Example - Chat App



### Chat Room







Real World Example - Location Proximity

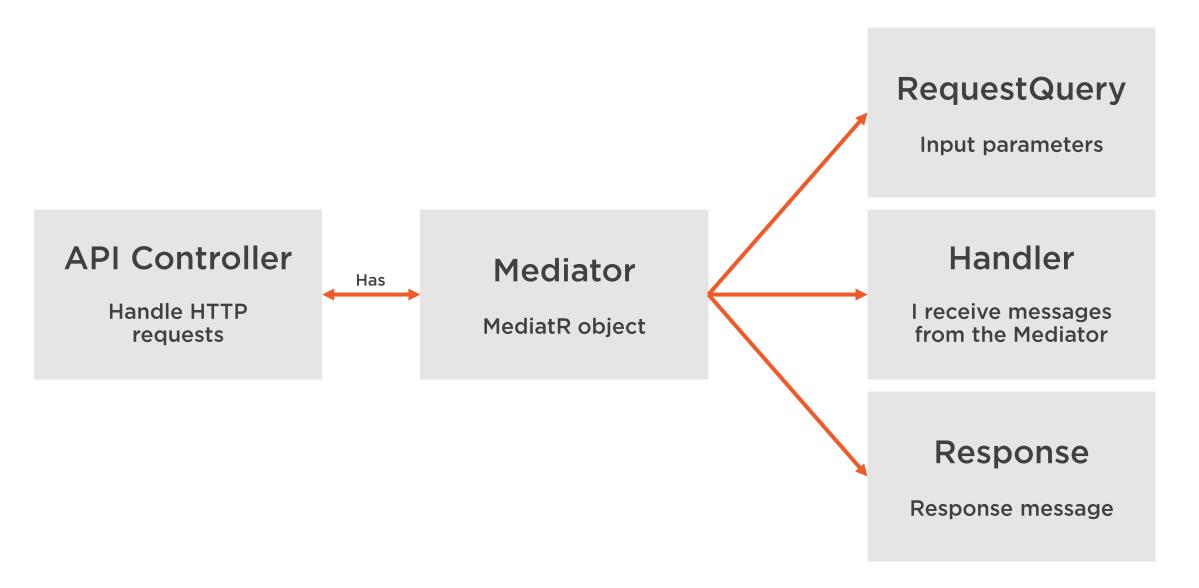




MediatR

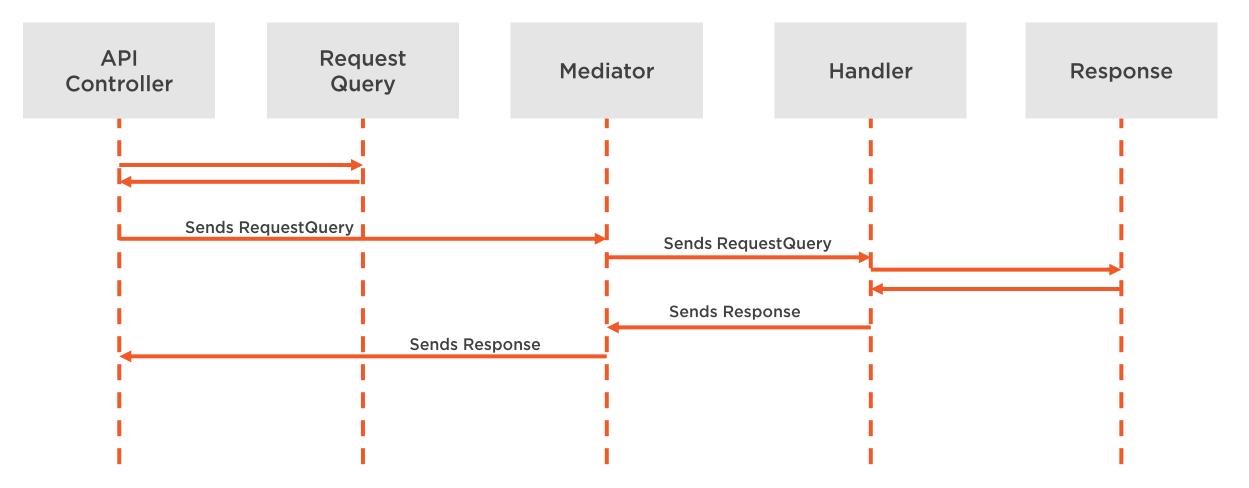


### Web API with MediatR





### Web API with MediatR





# Summary



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# Encapsulate object interaction with loose coupling



# Thanks for watching!

