

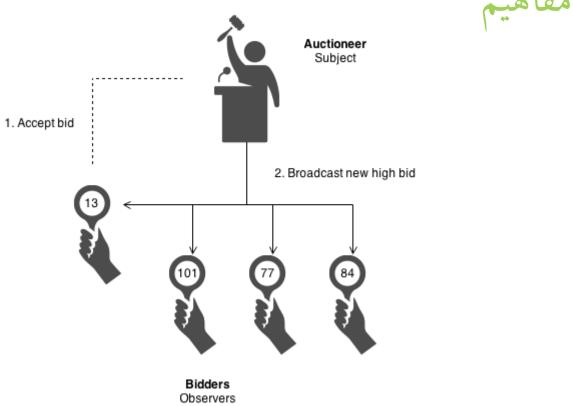
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مفاهيم

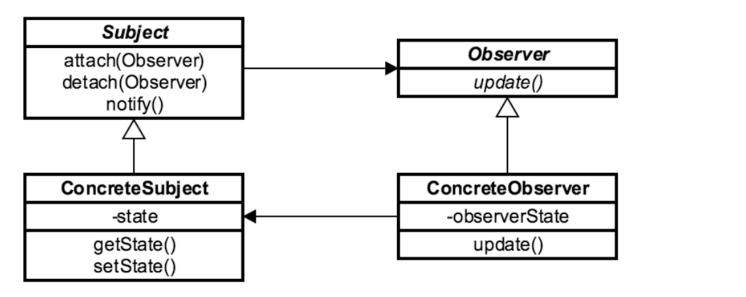
- . رابطه یک به چند
 - decoupling .
- استفاده از Event Handling
 - PUB/SUB .
 - نمونه ها
 - java.util.Observer
- java.util.EventListener
 - javax.jms.Topic -





طراحي

- Subject
- Observer



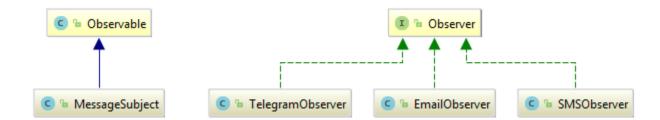
مثال 1

```
aComponent
class Subject{
    @Autowired
    ApplicationEventPublisher applicationEventPublisher;
    public void tellAllYouAreShuttingDown(){
        applicationEventPublisher.publishEvent(new ShutDownEvent());
class ShutDownEvent{
```

مثال 1

```
@Component
class Observer{
    @EventListener
    public void onShutDown(ShutDownEvent shutDownEvent){
        System.out.println("SHUT DOWN");
    }

@EventListener
    public void onShutDown2(ShutDownEvent shutDownEvent){
        System.out.println("SHUT DOWN 2");
    }
}
```



```
public class MessageSubject extends Observable {
   public void sendMessage(String message){
      setChanged();
      notifyObservers(message);
   }
}
```

```
MessageSubject messageSubject = new MessageSubject();
messageSubject.addObserver(
new EmailObserver("aa@bb.com","ww@hh.com"));
messageSubject.sendMessage("Hey this is me! , Please Call.");
```

جمع بندی

- Decouple كردن نحوه ارتباط اشياء
 - broadcasting رسانی
- پیاده سازی مدل publish/subscriber
 - دیباگ سختی دارد