

# Design Amazon Notification System

## Functional Requirements:

**1. Notification Channels (Subscriber) :** The system should support multiple notification channels, such as email, SMS, push notifications, and in-app notifications. Each channel has its own delivery mechanism and requirements.

**2. Product Types (Publisher) :** Users can subscribe to different types of product, such as Iphone. Each product type may have specific content and type.

## Observer Design Pattern

Define a one-to-many dependency between objects so that when one object changes state, all its dependents are notified and updated automatically.

### **Pros :**

**Open/Closed Principle.** You can introduce new subscriber classes without having to change the publisher's code (and vice versa if there's a publisher interface). You can establish relations between objects at runtime.

### **Cons:**

Subscribers are notified in random order.

## Class Diagram

