# Ink tutorial – 2

# Adapting the software behavior with Ink

In the previous tutorial (link) we showed you the basics.

Note: Ink tutorial are built to be consumed consecutively…

In this tutorial we will show a technique, known as AOM (ref), that allows users to change the system behavior without need for changes in the Java code (and hence with no software delivery).

# The example system

Please refer to tutorial 1.

# New requirement

After using the system for a while the customer wants to incorporate more types of promotional benefits into the system based on cooperation with other companies and institutions. Here are some examples:

* Get $ 40 discount for SPLASH/ICSE/PLOP/CBSE conference
* Buy (via Amazon) one of these books (…) for 40% off
* Subscriber to Time magazine (another publisher) at introductory annual price of $ 25
* Get giant Coke for free on your next 5 McDonald meals

These benefits will be given to subscribers in the form of coupons as agreed with the business partners. Different business partners have different kinds of coupons and some require that the user will register with their site before they can receive the benefit. The customer wants to control which types of benefits are given in each campaign. i.e. the marketing department will define the allowed combinations of benefits so that individual campaign will be restricted only to those combinations (e.g., it will not be possible to define a campaign that gives all available benefits).

After analysis of the requirements, the following commonalities and variabilities are found:

Common to all types of benefits:

* Include the benefit description in the promotional message
* Ability to define allowed combinations of benefits
* The user has to supply his details in order to be eligible for the benefit

Variabilities:

* The promotional message is different in different benefits
* Different promotional campaigns may use the same type of benefit with a different magnitude (e.g. 5 free Coke or 10 free Cocke)
* The user details form is different for different benefit types

## Solution