

# Design-pattern project

## Project report

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## What changes have been made ?

We have used some refactoring techniques :

### **Composing Methods**

1 - Extract Method =>

2 - Replace Method with Method Object => transformed  
print choice functions into the class Selection

### **Moving Features between Objects**

3 - Extract classes

### **Organizing Data**

4 - Encapsulate Field => used in all classes of data such  
as(product, payment, ..)

### **Simplifying Method Calls**

5-Preserve Whole Object => the View::showProductData I pass  
the whole product to it instead of its attributes

.....

### **The Design pattern that we have used :**

1 - MVC => Main Management of the project

2 - Singleton => in the model class, ObjectPool and Utils class

We have used a new design pattern (doesn't included in the course):

3 - Object Pool => for Selection class