ECOLE NORMALE SUPÉRIEURE DE
L'ENSEIGNEMENT TECHNIQUE DE MOHAMMEDIA

UNIVERSITÉ HASSAN II DE CASABLANCA

ENSET

المدرسة العليا لأساتذة التعليم التقني
المحمدية
جامعة الحسن الثاني بالدار البيضاء

DEPARTEMENT MATHEMATIQUES ET INFORMATIQUE

Design Pattern

Filière :
« Génie du Logiciel et des Systèmes Informatiques Distribués »
GLSID

Pattern Template Method

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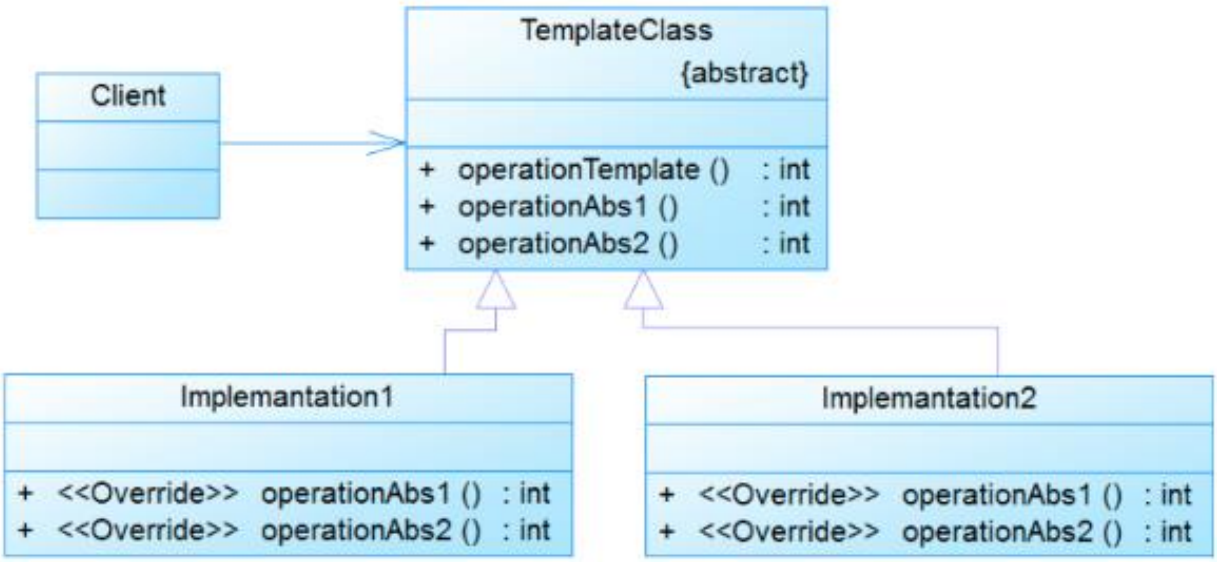
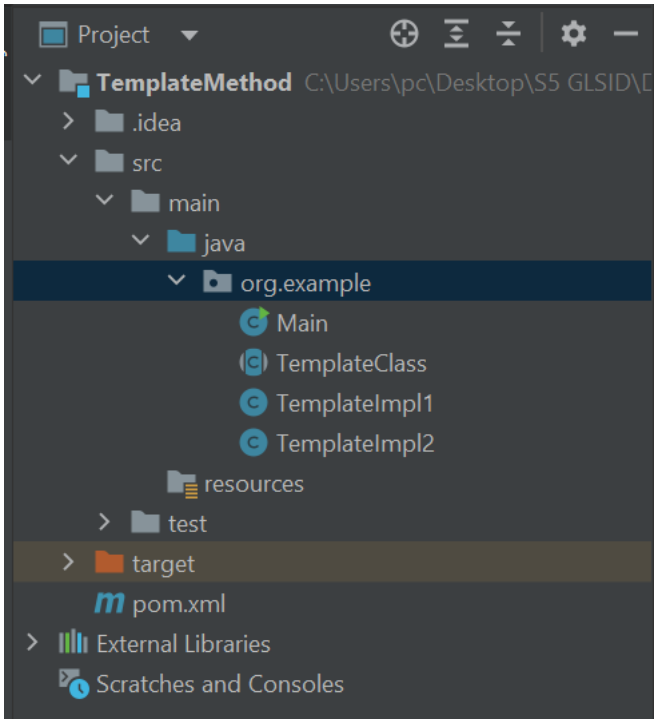
Pattern Template Method



Structure de projet :



La classe abstraite TemplateClass :

```
1   package org.example;
2
    3 usages   2 inheritors
3   public abstract class TemplateClass {
        2 usages
4       public double TemplateMethod(){
5           int n=operation1();
6           double somme=0;
7           for (int i = 0; i < n; i++) {
8               somme+=operation2(i);
9           }
10          return  somme;
11      }
12
        1 usage   2 implementations
13      protected abstract double operation2(int i);
        1 usage   2 implementations
14      protected abstract int operation1() ;
15  }
```

La classe TemplateImpl1 :

```java
package org.example;

1 usage
public class TemplateImpl1 extends TemplateClass{
    1 usage
    @Override
    protected double operation2(int i) {
        return 22;
    }

    1 usage
    @Override
    protected int operation1() {
        return 90;
    }
}
```

La classe TemplateImpl 2 :

```java
package org.example;

1 usage
public class TemplateImpl2 extends TemplateClass{
    1 usage
    @Override
    protected double operation2(int i) {
        return 74;
    }

    1 usage
    @Override
    protected int operation1() {
        return 12;
    }
}
```

Test :

```java
package org.example;

no usages
public class Main {
    no usages
    public static void main(String[] args) {
        TemplateClass templateClass=new TemplateImpl1();
        System.out.println(templateClass.TemplateMethod());
        System.out.println("**************************");
        templateClass=new TemplateImpl2();
        System.out.println(templateClass.TemplateMethod());
    }
}
```

Résultat :

```
1980.0
**************************
888.0


Process finished with exit code 0
```