

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

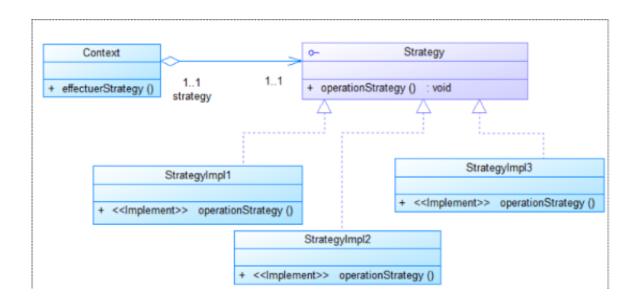
Pattern Strategy

Réalisé par :

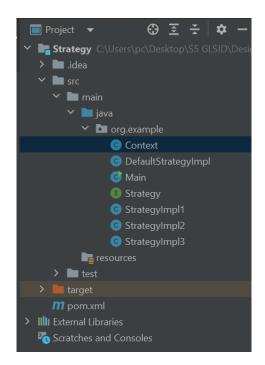
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Pattern Strategy



Structure de projet :



Classe Context:

Interface Strategy:

```
package org.example;

6 usages 4 implementations

public interface Strategy {
    2 usages 4 implementations
    void operationStrategy();

}
```

Implémentation 1:

Implémentation 2:

Implémentation 3:

Implémentation par défaut :

Classe Main La façon 1:

```
package org.example;

import java.util.Scanner;

no usages

public class Main {
    no usages

public static void main(String[] args) {
    Context context=new Context();
    context.effectuerOperation();
    context.setStrategy(new StrategyImpl1());
    context.setStrategy(new StrategyImpl2());
    context.setStrategy(new StrategyImpl2());
    context.setStrategy(new StrategyImpl3());
    context.setStrategy(new StrategyImpl3());
    context.setStrategy(new StrategyImpl3());
    context.setStrategy(new StrategyImpl3());
    context.setStrategy(new StrategyImpl3());
    context.setStrategy(new StrategyImpl3());
    context.setStrategy(new StrategyImpl3());
}
```

Résultat:

```
"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent
  *******
    .....Default Strategy.....
⋾
  ±±
  *******
.....Strategy 1.....
  *******
    .....Strategy 2.....
  *******
    .....Default Strategy.....
    .....Strategy 3.....
  Process finished with exit code 0
```

Classe Main La façon 2:

```
package org.example;

import java.util.Scanner;

no usages

public class Main {
    no usages

public static void main(String[] args) throws Exception {
    Context context=new Context();
    Scanner scanner=new Scanner(System.in);
    while (true){
        System.out.println("Quelle stratégie ?:");
        String str=scanner.nextLine();
        Strategy strategy=(Strategy) Class.forName( className: "org.example.StrategyImpl"+str).newInstance();
        context.setStrategy(strategy);
        context.effectuerOperation();
}
```

Résultat :

```
"C:\Program Files\Java\jdk-17\bin\java.exe" "-jav
   Quelle stratégie ? :
<del>.</del>
   *******
      .....Strategy 1.....
<del>-</del>
î
   Quelle stratégie ? :
   ********
      .....Strategy 2.....
   Quelle stratégie ? :
   ******
      .....Default Strategy.....
      .....Strategy 3.....
   Quelle stratégie ? :
```