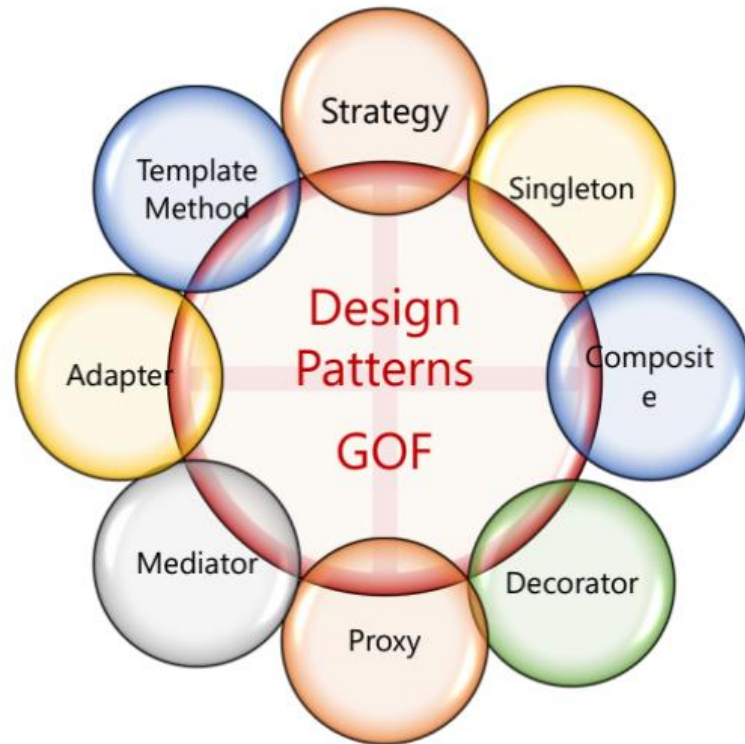


Proxy Pattern



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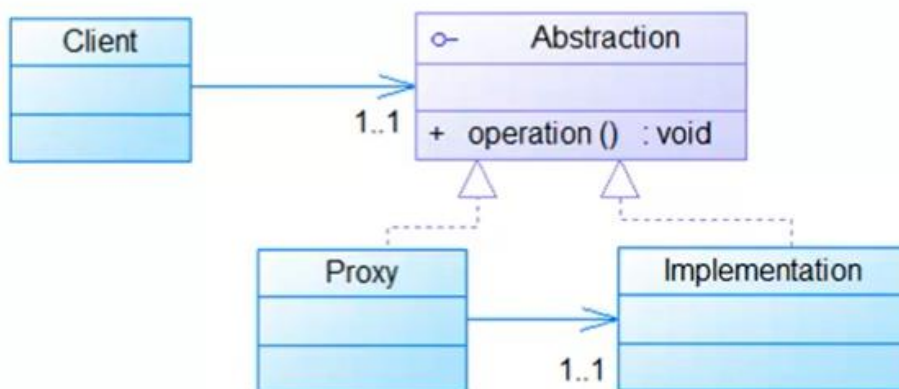
Catégorie :

Structure

Objectif :

Fournir un intermédiaire entre la partie cliente et un objet pour contrôler les accès a ce dernier.

Diagramme de classe :



Exemple d'application

Interface Standard:

```
package org.example.proxy;
```

```
public interface Standard {
    void process();
}
```

Classe StandardImpl :

```
public class StandardImpl1 implements Standard {
    @Override
    public void process() {
        System.out.println("process.....standard impl1");
    }
}
```

Classe Client :

```
public class Client {
    private Standard standard;

    public void setStandard(Standard standard) {
        this.standard = standard;
    }

    public void process() {
        standard.process();
    }
}
```

```
    }  
}
```

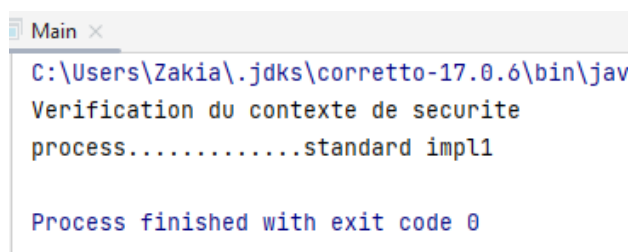
Classe proxy :

```
public class Proxy implements Standard{  
    private StandardImpl1 target;  
    @Override  
    public void process() {  
        System.out.println("Verification du contexte de securite ");  
        boolean b=new Random().nextBoolean();  
        if(b){  
            target=new StandardImpl1();  
            target.process();  
        }else{  
            throw new RuntimeException("Forbidden 403");  
        }  
    }  
}
```

Main

```
public class Main {  
    public static void main(String[] args) {  
        Client client=new Client();  
        client.setStandard(new Proxy());  
        client.process();  
    }  
}
```

Affichage 1 :



The screenshot shows a console window titled 'Main' with the following output:

```
C:\Users\Zakia\.jdk\corretto-17.0.6\bin\jav  
Verification du contexte de securite  
process.....standard impl1  
  
Process finished with exit code 0
```

Affichage 2 :



The screenshot shows a console window titled 'Main' with the following output:

```
C:\Users\Zakia\.jdk\corretto-17.0.6\bin\java.exe "-javaagent:C:\Program Files\JetBr  
Verification du contexte de securite  
Exception in thread "main" java.lang.RuntimeException Create breakpoint : Forbidden 403  
    at org.example.proxy.Proxy.process(Proxy.java:15)  
    at org.example.proxy.Client.process(Client.java:11)  
    at org.example.Main.main(Main.java:11)  
  
Process finished with exit code 1
```