DI



# 교재(1~3,10)



### Design Pattern

- \* Template Method Pattern
- \* Factory Method Pattern
- Strategy Pattern
- \* Template/Callback Pattern

### IoC(DI)

- Inversion Of Control
- \* Dependency Injection
- \* Dependency Lookup

\* 이미저장되어있는 사용자 정보를 ID 를주면 이름과 패스워드를 가지고 오는 프로그램을 만들어줘.

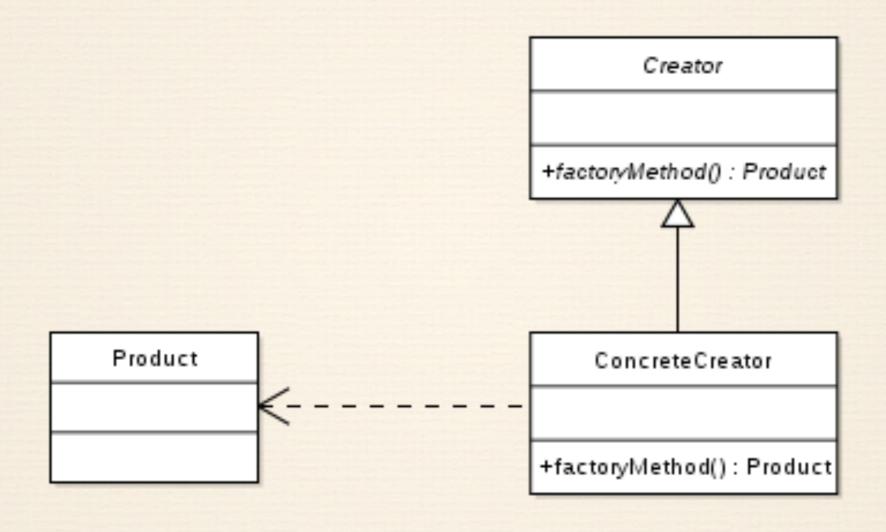
- ❖ DB에 직접 사용자 등록하니까 불편해.
- \* 사용자 추가기능 만들어줘

- \* 현재는 D사에서 사용하고있는데..
- \* N사에다가 납품해야한데..
- ❖ 거기는 DB 가 달라..
- ❖ 어떻하지?

#### Template Method Pattern

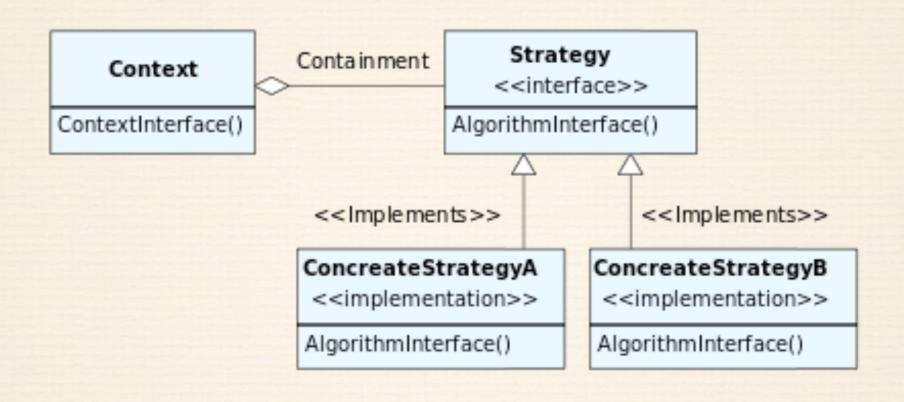
```
public abstract class Super {
  public void templateMethod() {
    //기본 알고리츰 코드
    hookMethod();
    abstractMethod;
  protected void hookMethod() { }
  public abstract void abstractMethod();
public class Sub1 extends Super {
  protected void hookMethod() {
  public void abstractMethod() {
```

#### Factory Method Pattern



\* 상품을 조회, 등록했으면 좋겠어.

### Strategy Pattern



### Spring Container, Bean

- DaoFactory => Spring Container (Application Context)
- \* Bean: Spring Container 가 관리하는 java object (UserDao)

### 장애

\* dao 를 사용하는데, 가끔 서버가 죽어 어떻게 된거야?

\* 사용자 삭제하는거 만들어줘

### JdbcTemplate

- \* jdbcTemplate.update()
- \* jdbcTempate.queryForObject()

**\*** 

### **ApplicationContext**

- StaticApplicationContext
- GenericXmlApplicationContext
- AnnotationConfigApplicationContext
- ❖ 각각의 WebApplicationContext
  - StaticWebApplicationContext
  - XmlWebApplicationContext
  - \* AnnotationConfigWebApplicationContext

### ApplicationContext 계층구조

Root ApplicationContext

A1 ApplicationContext

B1 ApplicationContext A2 ApplicationContext

#### Bean 등록

- \* <bean> ... </bean>
- \* @Configuration ... @Bean ... @Bean
- \* @Component @Controller @Service @Repository

#### DI설정

- \* property> ...
- <<constructor-arg> ... </constructor-arg>
- @Resource(name="jdbcTemplate")
- \* @Autowired

### Value 설정

- \* property name="name" value="value" />
- \* @Value
  - \* @Value("value") String str;
  - \* @Value("1.2") double rate;
  - \* @Value("1,2,3,4") int[] intarr;

### Value 설정

- \* property name="names">
  - \* < list>
    - <value> a </value>
    - <value> b </value>
  - \* </list>
- \*
- \* property name="ages">
  - **⋄** <map>
    - \* <entry key="Kim" value="30" />
    - \* <entry key="Lee" value="35" />
  - ♦ </map>

### Value 설정

- \* cproperty name="settings">
  - - \* cprop key="username">jeju</prop>
    - \* cprop key="password">jejupw</prop>
- \*
- \* property name="beans">
  - - <ref bean="beanA" />
    - <ref bean="beanB" />
  - ♦ </list>

#### Bean Scope

- \* singleton (Default)
- prototype
- \* request
- \* session
- \* globalSession
- \* application