

Replace State-Altering Conditionals with State

(state)

snippet.java

```
abstract class PermissionState{
    public String toString();
    public void claimBy(SystemAdmin admin, SystemPermission permission){}
    public void deniedBy(SystemAdmin admin, SystemPermission
permission){}
    public void grantedBy(SystemAdmin admin, SystemPermission
permission){}
}
```

snippet.java

```
class PermissionClaimed extends PermissionState {
    public void deniedBy(SystemAdmin admin, SystemPermission permission){
        if (!permission.getAdmin().equals(admin))
            return;
        permission.setIsGranted(false);
        permission.setIsUnixPermissionGranted(false);
        permission.setState(DENIED);
        permission.notifyUserOfPermissionRequestResult();
    }

    public void grantedBy(SystemAdmin admin, SystemPermission
permission){
        if (!permission.getAdmin().equals(admin))
            return;
        if (permission.getProfile().isUnixPermissionRequired() &&
!permission.isUnixPermissionGranted()){
            permission.setState(UNIX_REQUESTED);
            permission.notifyUnixAdminsOfPermissionRequest();
            return;
        }
        permission.setState(GRANTED);
        permission.setIsGranted(true);
        permission.notifyUserOfPermissionRequestResult();
    }
}
```

Move Embellishment to Decorator

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Decorator

- singleton flyweight
- ,
- 가 ,
- Strategy Decorator public 가 가 가

Replace Conditional Login with Strategy

Strategy () 가
Strategy

Compose Method

가
, Composed Method private 가

Compose Method 가

Inline Singleton

가 ^singleton^

Encapsulate Composite with Builder

^composite^ 가
, ^builder^

Introduce Polymorphic Creation with Factory Method

가

^facotry method^

Encapsulate Classes with Factory

^factory^

Program to an interface, not an implementation

Move Creation Knowledge to Factory

^createion knowledge^

^factory^

가

Replace Constructors with Creation Methods

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가

^creation method^

static method

- IT

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