OOP HW3 REPORT

1 THE ARCHITECTURE

POOArticle

POOBoard

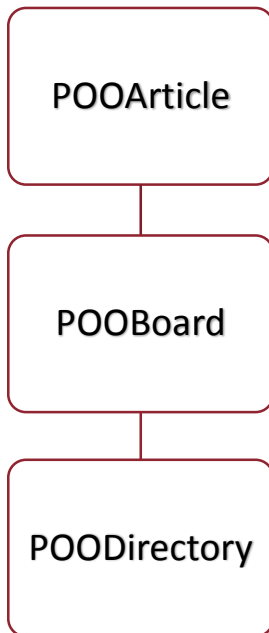POODirectory

The POODirectory extends POOBoard and POOBoard extends POOArticle. The class below can contains the class above, which is means POODirectory can contains not only POODirectory and POOBoard but also POOArticle.

2 THE ADVANTAGE

1. Elasticity of Container

   Since POODirectory can contain everythings, it could easily become a favorite article container by simply change the show method. POOBoard also have content and author attribute if you want to use them for any specific purpose.

2. Great for maintainance

   Only need to deal with POOBoard for container problem and article problem with POOArticle.

3. Simplify Code

   Since each file contains Basic instruction and method, it is easy to understand how the code works and operates.

3 THE DISADVANTAGE

1. Permission Not Tight enough

   The POODirectory can do more than it should do, POOBoard also have ability to write content etc.

2. Unknown reaction if you don't have each code

   Since if you don't have POOArticle code, the method reaction of POOBoard/POODirectory could be unknown and hard to predict. Maybe some variable will be changed due to calling POOArticle method.

4 FEATURES

1. Implementation time

   Since use extends, the code will not be long. The implementation time will be acceptable and easy to implement.

2. Code Reusing

   Code can be reused. When you want to add another object like "Empty Split line" into POODirectory, you only need to extends class from POODirectory and set the title into empty.

3. Hierarchy meanings

   A simple idea that the lower class can contains the higher class.

4. Javadoc Support

   Just type 'make doc' then the javadoc page will be established in 'doc' directory. The javadoc will give you the details of how to use the program.

5 GIT PROBLEM AND FIX

1. SSH key permission denied

   I install the github windows client which provides an easy way to fix it.

For advanced user, it can be use ssh-keygen to create your own ssh key and paste it into the github/gutbucket site for authentication.

2. Branch conflict

It caused when I played with git. Git provides an easy way to checkout between two branch and merge it with little difficulty. :)

3. Version rollback

To rollback, we should remember the SHA code and put it behind the "git checkout" command and stage that. The simpler way to do so is by installing some GUI program such as github for windows.

6 BONUS

1. Save BBS Support
2. Load BBS Support
3. Up/Down/Left/Right PTT like command demo
4. JavaDoc Support
5. README.md Offered