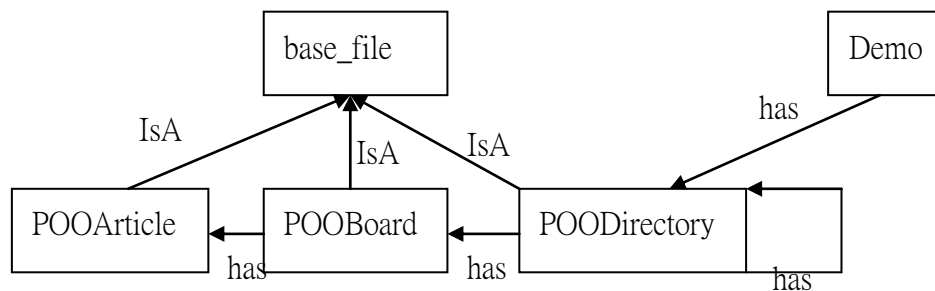Relation graph:

note: split line is also a member of base_file

Advantage:

1.

    Use base_file.java and let POOArticle, POOBoard, POODirectory inherit it.

    In POODirectory:

        When coding POODirectory, we can easily maintain file list in
POODirectory.

    In Demo:

        we can use base_file reference to easily traversal the whole directory
tree.

2.

    put upper_level parameter in base_file.

    In Demo:

        we can have where function to know where am I.

        we can easily go up/down to another directory/board/article

Disadvantage:

1.

    Use base_file.java and let POOArticle, POOBoard, POODirectory inherit it.

        We must be careful to use it, because base_file can be the three class.

    Before using, we must think what instance is it. It cause that the program has a
large amount of "A instanceof B".

Maintain my code:

    Problem encountered:

1.   Use two difference machines to write my code:

    Never use this function in this homework but I do some test for README file.

    First I use A computer to login and change README file. And then, I use B

    computer which is already login to check if the README file had been changed.

However, the result is the B computer's README file changed but not be seen in the screen(but it can be committed and sync). Finally I found that logout, and re-login in B computer can solve this problem.

2. Branch:

Never use this function in this homework but I do some test for README file. First create a test branch, change the README file in test branch. And then switch to master branch, and use git merge test to merge. The result is success. However when I do the same in test_for_branch branch and use revert after change the test file. I found it not merge successfully, but add something like this

note:

     switch branch will also change your file in local github. So never switch branch before you commit all changes, or there will be an error.

3. Rollback:

Never used.

Bonus:

Demo.java:

     where function:

         can easily know where am I.

     help function:

         can easily get all useful function's usage.

         In addition, you can type "help direction" to search for the help about this direction, and this function support regular expression.

     Support initial building directory: ex: java Demo test.txt

         can load test.txt file and execute commands in it.

     For Article:

         we can type blank in your message or article content