PROJECT MANAGEMENT COURSE

Report for the third iteration

Hospital management system –HMS

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In the third iteration, I change my role from "Manager" to "Developer" and my responsibilities are

- Design and develop two new functions related to "Nurse" role
- Refactor some exist functions

Design and develop two new functions related to "Nurse" role

I have already develop two new functions in our project: insert new medical record of patient, and assign available doctor to patient

For each function, I applied XP practices to develop it

- Design unit testing for input values and verify valid data before insert medical record to database
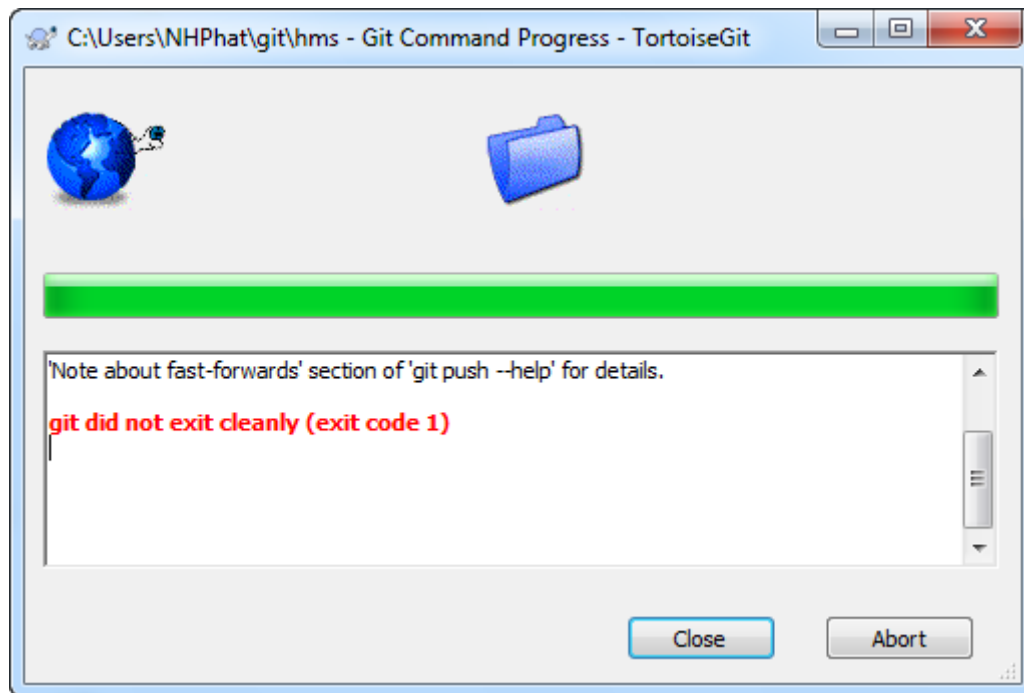- Implement this function and re-run unit test to verify code

Refactor

- Changes something in "Login" form
  - o Make more unit test for "Login Panel" class
  - o Validate input form, if user does not give a correct username and password, raise error and notify to user via message box
  - o Depend on user type (receptionist, nurse or doctor), after login successful, a corresponding form will be showed
- Refactor code of iteration 1 and iteration 2 to fix some bugs which are founded during testing: change some exists code of iteration 1 and iteration 2 functions: login, register patient, lookup patient information to fix some bugs in it

Difficult in my tasks

While using github with Eclipse, I have some problem when I commit code to github, for example

1. *Github raise error "git did not exit cleanly"*

After search on the Internet, I found that this error is raised in case between the times I pull last revision from github and commit new code to it, other team member already commit their code, so it has conflict in code.

I have two solutions for this problem

- Pull new code from github, merge it with local version (by using "Tortoise git" – a free third party software to commit code by GUI) and commit again
- Pull new code to another workspace in local PC, manual compare that project with my project by using "Compare" tool in Notepad++, find a difference in it and change it manually
  The second way waste a lot of time to find a difference and solve problem
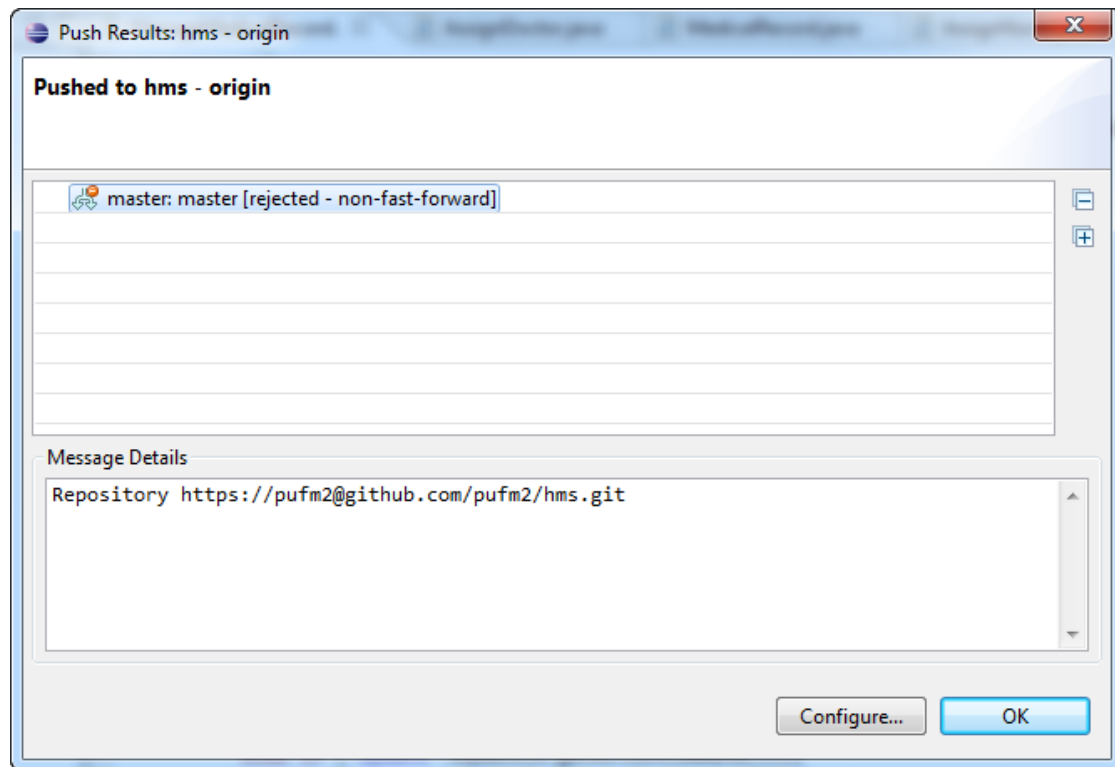2. *Problem with using Unit test and Easymock*

After pull new revision from github and try to run unit test in that project in my PC, Eclipse raise error about cglib and objenesis. It said that I used invalid library in my project

I found solution from http://www.easymock.org/EasyMock3_0_Documentation.html that I must download and install Objenesis 1.2 instead of Objenesis 1.0 which I used in last iteration. Besides that, I must install new package for cglib by using cglib-
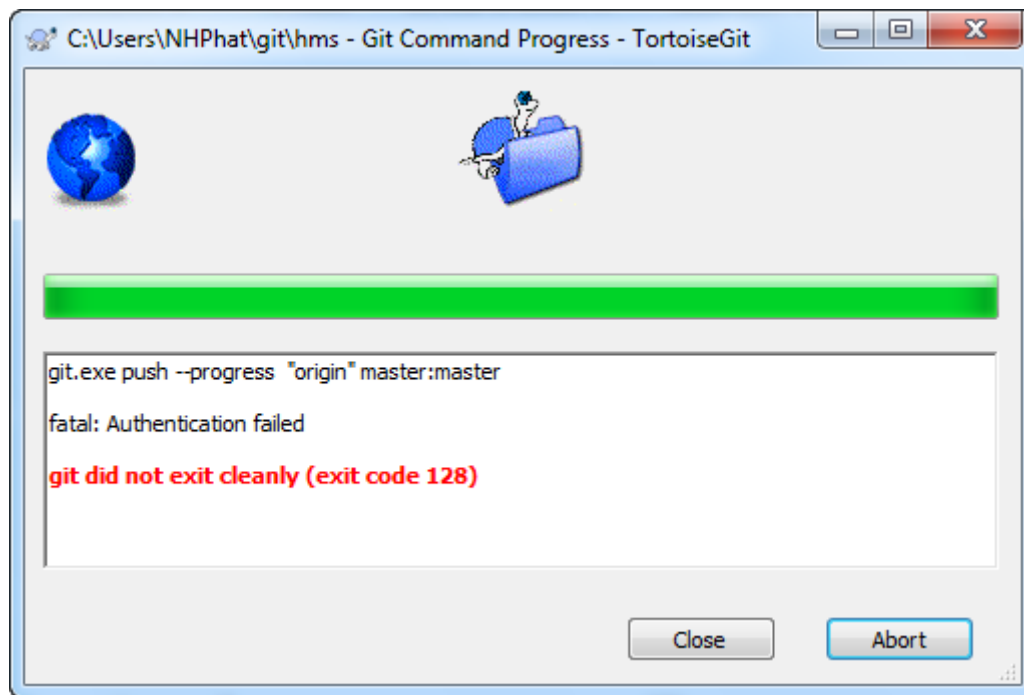
nodep-2.2.2.jar from instead of cbglib-2.2.jar to avoid platform dependent (Help from users in http://sourceforge.net/projects/cglib/forums)

It also have two problem I cannot find a solution

1. *Sometime when I push new code to github, I raise an error: non-fast-forward*

2. *Event if I give correct username and password of our repository in github, then I try upload new code, I said that "Authencation failed"*

```
C:\Users\NHPhat\git\hms - Git Command Progress - TortoiseGit

git.exe push --progress  "origin" master:master

fatal: Authentication failed

git did not exit cleanly (exit code 128)

                                        Close        Abort
```

I hope Prof. Emilie Balland can help us solve these problems