

Assignment of Project Management course “Hospital management system” - HMS

Report for iteration 2

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Introduction

- In 2nd iteration, we are planned:
 - Design test
 - Develop two first functions
 - Database
 - Source
 - Refactoring
 - Change project plan to match with actual tasks
 - Apply XP practices to project
 - Build automatic build, version control and interaction system

Second iteration

- In second iteration, we keep each member's role are
 - Manager: NGUYEN Huu Phat
 - Tracker and tester: NGO Minh Anh Thu
 - Programmer: LE Xuan Hoan and TRAN Le Nhu Quynh

Setup development and testing environment

- Setup HUDSON
 - Already setup HUDSON in local PC
 - Do not have server and static IP address to setup HUDSON online
 - Refer to “TRAN Le Nhu Quynh_RoleProgrammer_Iteration2.pdf” for details
- Setup MAVEN
 - We also setup MAVEN in each PC instead of using ANT
 - MAVEN is easy to use

Task have been done

- Re-plan project
 - Changed deadline of some tasks
 - We have three more projects must be done in this and next month
 - Some new tasks are raised and should more time to do: setup MAVEN, HUDSON
 - Redefined order of task
 - Change priority of task
 - Add some tasks about testing into project plan

Task have been done

- Implement database
 - Use SQLite database with “SQLite Maestro” as management tool
 - Create table in database
 - Input test data to database
- Advantages of SQLite
 - Easy to use
 - Database file is small
 - Save resources
- Disadvantages of SQLite
 - Must use third-party software like SQLite Maestro to manipulate database easier
 - SQLite does not support write store procedure

Task have been done

- Design test case
 - As XP methodology practices, after define classes and methods in each class, we make some unit test by using JUnit and Easymock in project
 - Because we do not have a well design and a few experiences in XP, so unit test must be changed during this iteration
 - Refer to “NGO Minh Anh Thu_RoleTracker_Iteration2.pdf” for details

Task have been done

- Implement software functions
 - We build some functions for this project as client request in last iteration
 - Login
 - Register new patient
 - Lookup patient information
 - Assign nurse to patient

Task have been done

- Refactoring
 - After programmers implement functions in project and commit it to github, tester clone it to local repository and run test to verify code
 - We also do some refactor actions for this project like rename class and variable, change an architecture...

Advantages

- Some advantages when apply XP methodologies to our project
 - Small release
 - Simple class and methods
 - Test case are created before implement phase, so easy to check method right while coding

Disadvantages

- It also have some disadvantages for us in second iteration
 - Sometimes we do not follow XP practices, some code are implement without unit testing
 - Do not setup meeting frequently (everyday), but we send us email everyday or setup online meeting
 - Do not have a server to setup HUDSON online
 - Sometimes github with Eclipse has problem, so we must search solutions for its

Solutions

- We suggest some solution for disadvantages point, to improve project in next iteration
 - Try to apply XP practices to this project
 - Improve management and development skills
 - Ask some help from university to setup HUDSON online
 - Study more about github

Plan for next iteration

- Change team members' role
- Develop business logic layer for functions
- Generalize class to abstract for interface for extend system later
- Apply some design pattern to this project to improve design and system architecture

End.