Assignment of Project Management course "Hospital management system" - HMS

First iteration report

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Introduction

- Our team is responsible to build a HMS, team has four members:
  - NGUYEN Huu Phat
  - LE Xuan Hoan
  - TRAN Le Nhu Quynh
  - NGO Minh Anh Thu
- We choose XP for development methods, JAVA as programming language and SQLite as database management system as client suggest.

First iteration

- In first iteration, team is organized with
  - Manager: NGUYEN Huu Phat
  - Tracker: NGO Minh Anh Thu
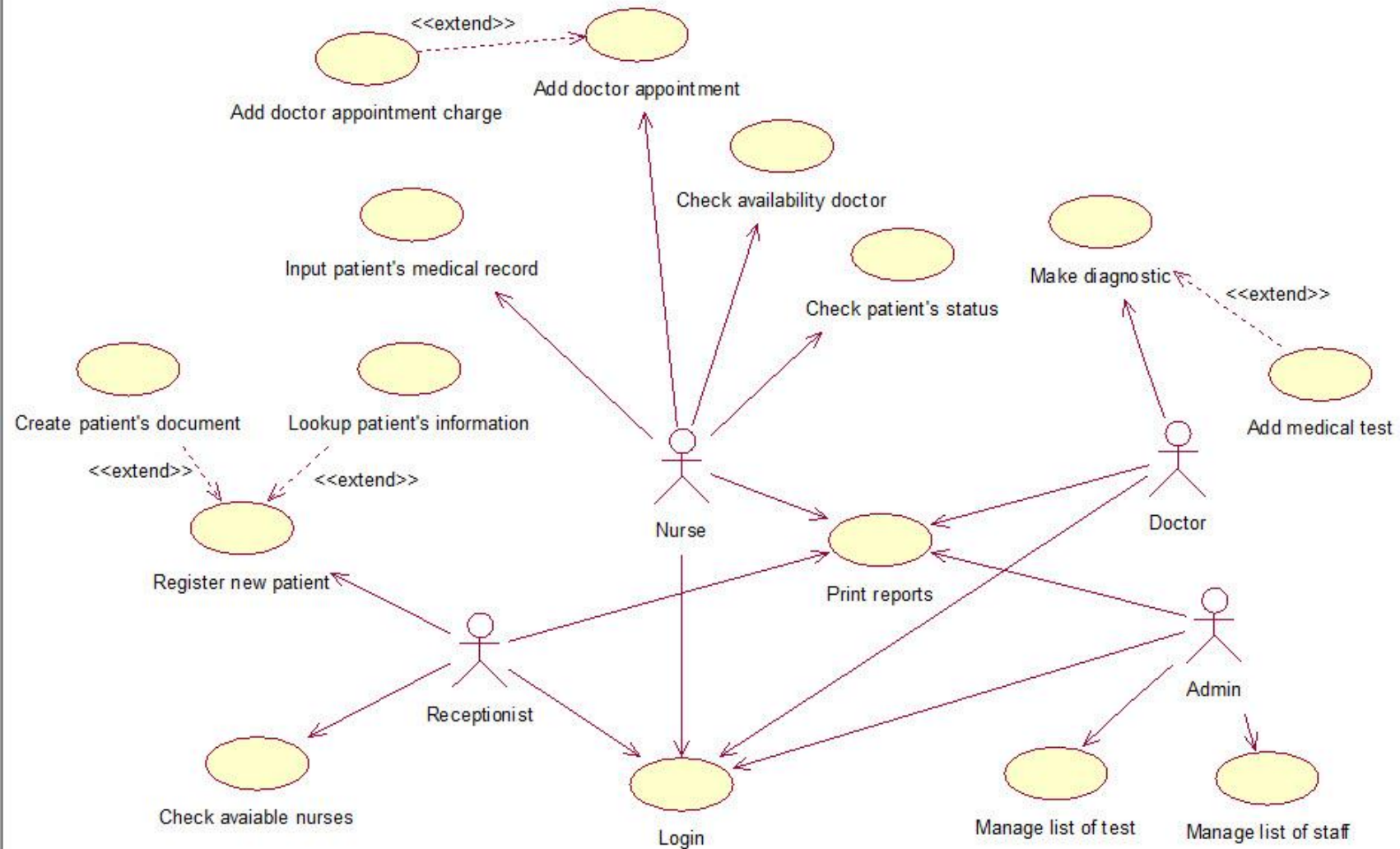 - Programmer: LE Xuan Hoan and TRAN Le Nhu Quynh

Task have been done

- Project plan
  - We make a project plan for this project based on XP methodology concepts
  - Project plan also including project resources, timetable, predecessor between tasks
  - We estimated a cost and budget for this project
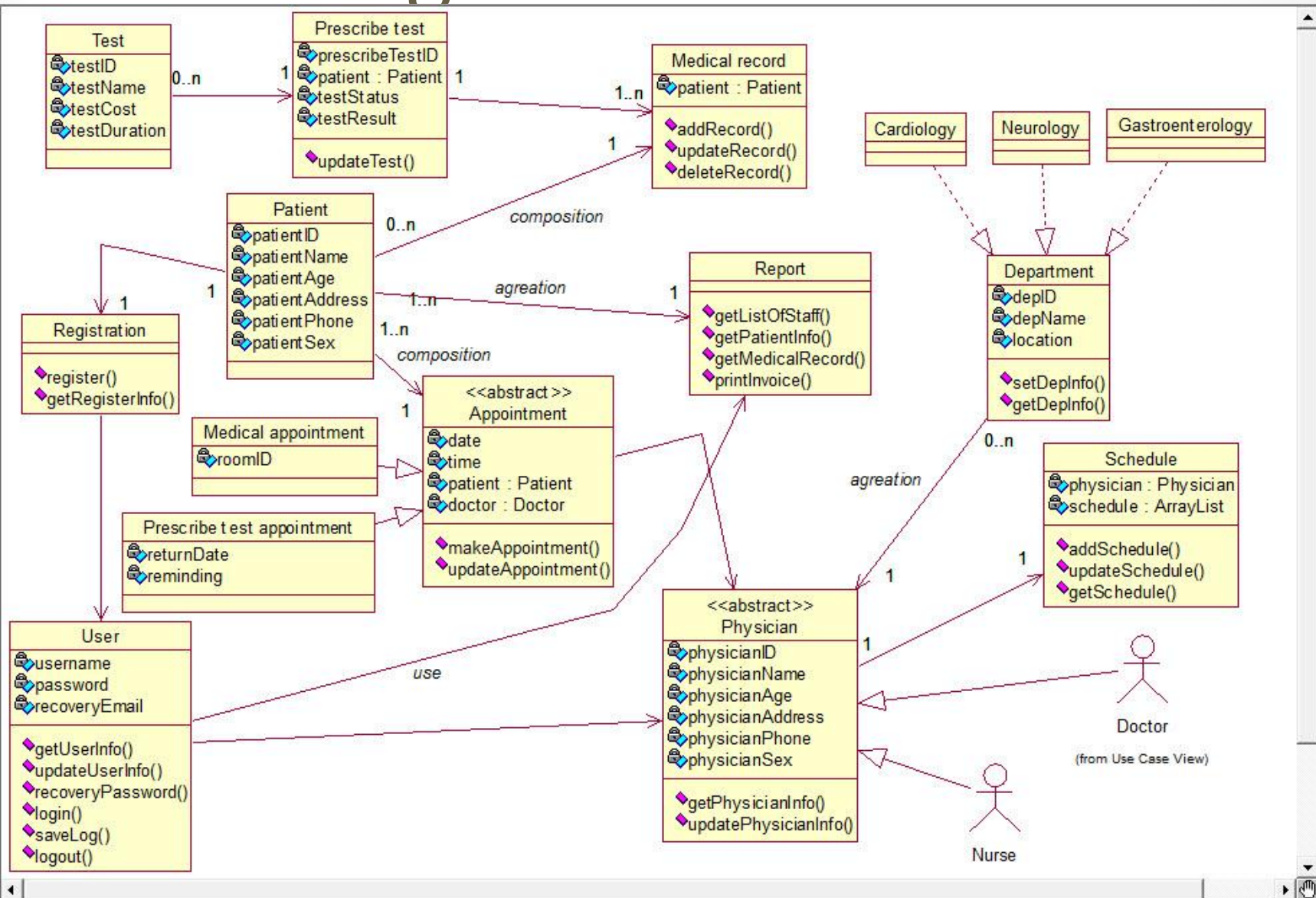 - Project plan is sent to client by Mar 1st

Task have been done

- Analysis and design
  - We suggest some functions for this project and send to our client, for first iteration, client decide that these functions should be done first
    - Register new patient
    - Update medical record(s) of patient
    - Receptionist check availability of physicians
    - Nurses and physicians is assigned for patient
  - As XP required, we just have a simple design for project with some use case and class

Use case diagram

Class diagram

Setup development environment

- For supporting group development, we setup a github repository for project at git@github.com:pufm2/hms.git or https://pufm2@github.com/pufm2/hms.git

- Each user has a account in github to make a clone project to local computer

GUI

- Programmers in our team make some example GUI for some functions
  - Login
  - Register new patient
  - Check patient's status
  - Diagnostic

Login interface

Registration New Patient

ID Patient: P0023

Full name: Some text

Birthdate: / /   [calendar icon]   Sex: O Female   O Male

Address: Some text

Phone: Some text   Social Security: Some text

Biographic health: Some text
A second line of text

Receptionist code: 0123

Register

Register new patient

Registration New Patient

ID Patient: *P0023*

Full name: Some text

Birthdate: / /   Sex: ○ Female   ○ Male

Address: Some text

Phone: Some text   Social Security: Some text

Biographic health: Some text
A second line of text

Receptionist code: 0123

Register

Check patient's status

Diagnostic

Advantages

- When apply XP methodologies to project, it has some advantages for us
  - Easy to setup stand up meeting, so task is defined clearly
  - Simple design: do not have too much time to design, have a release earlier than other methodology
  - We are small team, it is suitable for XP

Disadvantages

- This is first time we apply XP methodologies, so it also have some disadvantages for us
  - XP requires small release, but until now we hadn't had a release for project
  - We do not have experiences about hospital management
  - XP does not require widely analysis and design document like other similar methods (water fall, spiral…), so we must change design several times

Solutions

- We suggest some solution for disadvantages point, to improve project in next iteration
  - Modify project plan for milestone releases
  - Investigate more business process for an HMS
  - Study more about XP methodology and try to apply its key points to our project

End.