Course PM: OO programming project, TDA367/DIT212, LP4 2015

Course responsible	Joachim von Hacht Tel: 1003 Room: 6482	hajo@chalmers.se
Examiner	Joachim von Hacht	
Lecturer	Joachim von Hacht	
Assistants	See cours page	
Course site	http://www.cse.chalmers.se/edu /course/TDA367/	

General

This course is intended to make you familiar with the principal activities of software construction: requirements elicitation, analysis, design, implementation, testing, and documentation. The idea is to practice what you have learned in the courses Object-oriented programming (TDA545/DIT011) and Object-oriented programming, advanced course (TDA550/DIT950). On top of that, you will gain experience in specifying, designing and implementing a system from scratch, in a (small) team.

Course uses English for most written documents (all code in English). Spoken language is Swedish (sadly with a lot of svenglish computer terms).

Collaboration with LSP310

This applies only to students taking the course ”Kommuniktion och ingenjörskompetens”, LSP310. The oral presentation is part of the grading for both courses. See examination below.

Schedule

See TimeEdit (link from course page > About).

Literature

Recommended;
Robert C. Martin, *Clean Code*, Prentice Hall
Eric Evans, *Domain driven design*, Addison-Wesley
Jan Skansholm, *Java Direkt med Swing*, Studentlitteratur
Joshua Bloch, *Effective Java 2:nd ed,* Addison-Wesley

Environment

IDE We recommend (and can handle) the NetBeans IDE. But all projects must use Maven as management and build tool so it should be possible to move the project to your favorite IDE (NOT: Make Git ignore IDE specifi files!).

Version control system Git is mandatory and supported by moste IDE's. Still we recomments using the commandline.

Organization

Project

Each group is supposed to deliver a project. For project details see Project PM on site.

Groups

The project is carried out in groups of four students. If you are a group of four students who want to work together, you may sign up for an empty group. However, if you are alone or a group of fewer than four persons, you should join an existing, not yet full, group. When you add your name to a group (having an open slot), you don't need to ask their permission to join. However, you need to inform them.

We will only allow group size different from four when this is necessary because the total number of students is not congruent to zero modulo four.

Lectures

There are a few introductory lectures, see course site.

Workshops

During the first weeks there are some workshops to help you (your group) to quickly get going. The workshops are hands-on (in lab rooms). Workshops are optional but strongly recommended. See course site.

Seminar

There is an obligatory seminar, see schedule. The group has 10 min. to present the project and the analysis (domain) model (use overhead or one slide). Be well prepared, tight schedule!

Supervised meetings

Each week you will have a meeting with your supervisor. The meetings are compulsory!

If you miss a meeting you will have to do a complementary assignment (code or write a paper or worse...)! This is also applicable if you have too many late arrivals.

Group meetings

The group is assumed to organize at least two group meeting each week. The meetings should be documented (use agenda template on course site).

Examination

Basic requirements for the group to pass;

- Have handed in and got the project (incl. documentation) accepted.
- Each week have organized two meetings for the group.
- Have done an oral ”technical” presentation of the project (slides and demo assumed).
- Have attended some of the other groups presentations and acted as ”opponents” on one of them (at least one day presence).

For individual of groups to pass;

- Have fulfilled the group requirements.
- Have visited all mandatory meetings (or handed in the complementary assignment).
- Have been an active member of the group.
- Have participated sufficiently to the final deliveries (project, documents).
- Have spoken at the oral presentation.
- Have asked some questions (as an opponent).
- Have delivered a self estimation, see course page.

It will be possible to trace individual code contributions. If you work in pairs (or similar) you must take turns when committing into the version handling system. Else your contribution will be lost!

Grades

Individual (U/3/4/5, U/G/VG). Grading will be done in two phases;

1. Group grade; Depending on the project, the documentation and the oral presentation a group grade will be assigned.
2. Individual grade: We’ll estimate each students contribution to the project, documentation and presentation. High or low contributing students could get higher or lower grades. Normally the group and individual grade will end up the same.