

Voluntary Exam 1

Model Driven Software Development (MDSD)

Day: Nov 20, 2014 TIME: 14:20-14:40 Place:HC4

Responsible:	Rogardt Haldal
Result:	In the end of the course in collaboration with the oral examination on the project
Extra aids:	None
Grade intervals:	Each voluntary exam gives a maximum of 20 points. There will be 3 voluntary exams. The sum of the two best results will give the grade: <ul style="list-style-type: none">• U: 0 – 15p, 3: 16-23p, 4: 24-31p, 5: 32-40p• G: 16-31 p, VG: 32-40p

Please observe the following:

- Write clearly. Unreadable = wrong
- Fewer points are given for unnecessarily complicated solutions
- Indicate clearly if you make assumptions that are not given in the assignment
- Write your name, social security number and the project group number below:

NAME:

SOCIAL SECURITY NUMBER:

PROJECT GROUP NUMBER:

1) Give three examples for what is important to think about when making a domain model? (3 p)

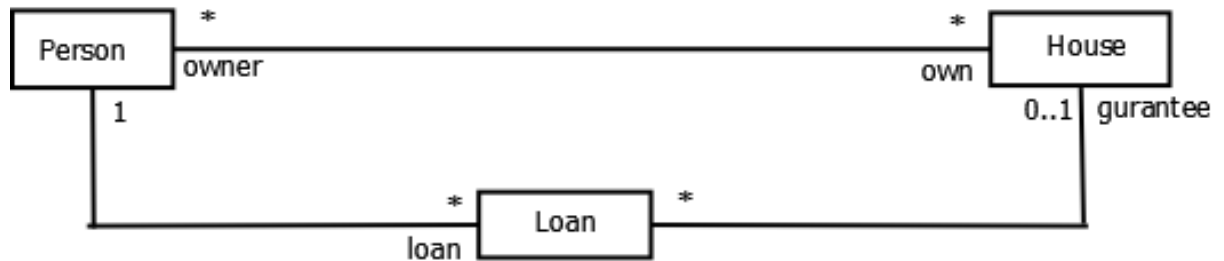
2) Describe what an association class means? Use a concrete example that is self-explanatory to show what you mean. (2p)

3) The kayak club, FastForward, needs to make money to run the club and therefore they want to start selling kayak courses. They wrote up a textual description of their domain:

They consider having several levels of courses, each course except for the introduction course require a course on the previous level. A course can have max 10 people. If there are no places left on a course one can be put onto a waiting list. One needs to be at least 15 years of age to be enrolled in a course.

Your job is to make a domain model from this description. (6p)

4) What is the main problem with the domain model below, which is supposed to describe that a person can take a loan with guarantee for a house he/she owns? (2p)



5) Name one important benefit of writing a domain model before writing a use case? (2p)

6) Express the following situation as a part of an UML activity diagram (i.e., you don't need an initial node and not all flows need to lead to an end node): After the activity *check authorization* is done, the whole activity *stops* in case the authorization fails, or continues with the activity *show available courses* otherwise. (5p)