



Object Oriented Analysis and Design with UML 1DV407

Assignment 1 (Peer Review)

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Abstract

The following document is the peer review of the first work shop of the course object-oriented analysis and design using UML, presented in Linnaeus University. The work shop has been done by *Anton K Andersson*, *Hannes Ljusas*, *Kristoffer Lind*. During this document we will try to write down the plus points and weaknesses of the model according to the “peer review instruction” document that our contact person has received.

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Introduction

In the first work shop we have been asked to come up with a domain model for a yacht club (boat club) in order to help them with the problems they had due to the growth of the club. In this document we have been asked to review the domain model that our classmates Anton K Andersson, Hannes Ljusas, Kristoffer Lind have been drawn for the yacht club.

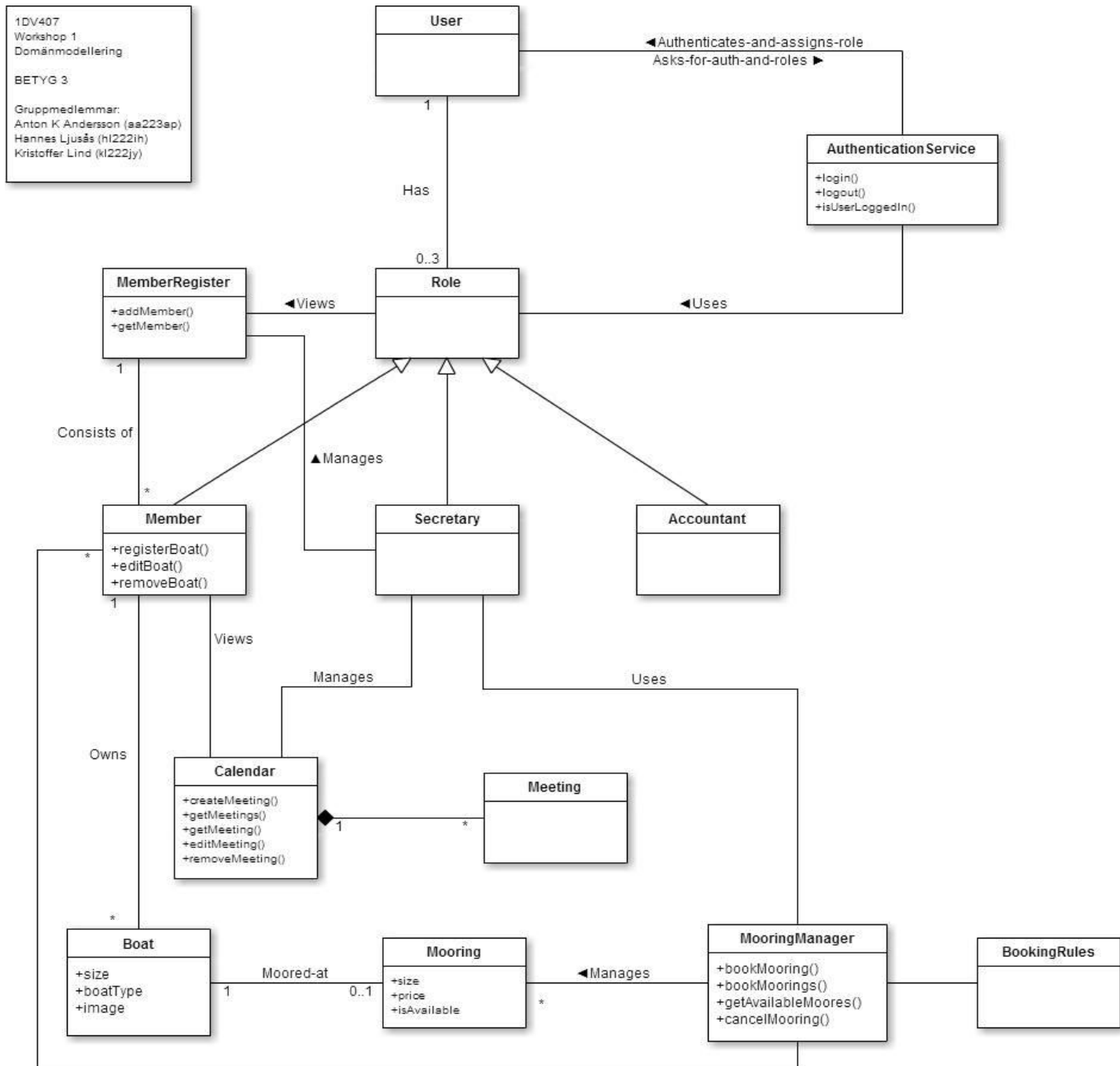
The document includes a general review section and then five main questions that we have been asked to answer in the “peer review instruction” document that we have received.

Aim

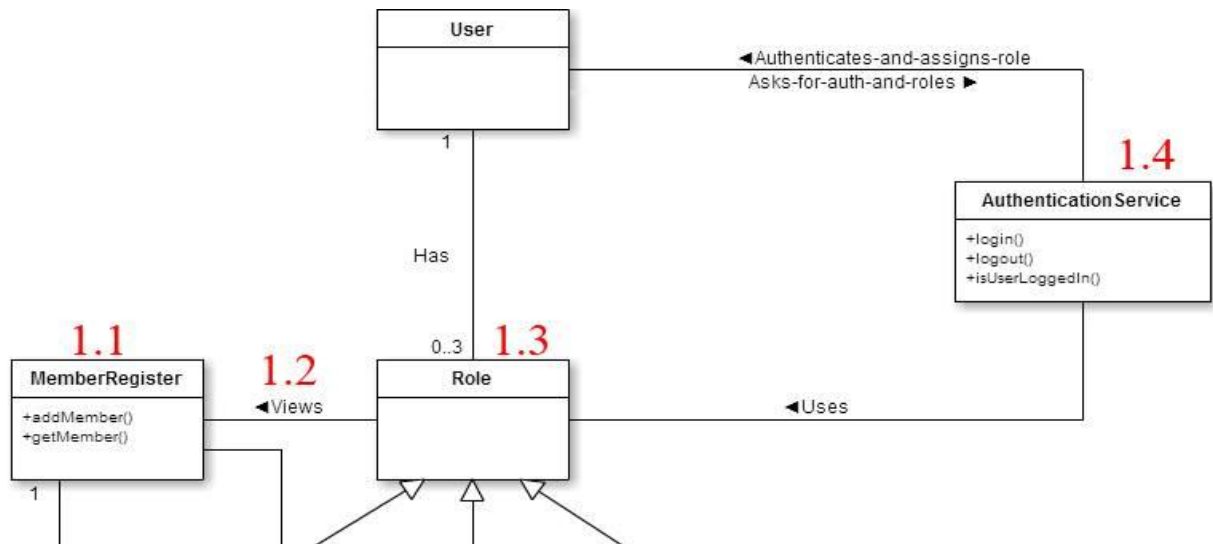
As we mentioned in the introduction section this document includes a series of questions that we have been asked to answer in the “peer review instruction” document that we have received and a General review section which we will do a general review of the model and try to see if it meets the requirements that we have been asked to do during the lectures and tutoring sections or not? And finally we will answer each of the given questions and try to find the weaknesses, plus points of the domain model.

General Review

Below is the domain model that they came up with for the yacht club.



In order to do a better review we will divide the model into four sections and then we will comment on each section separately.

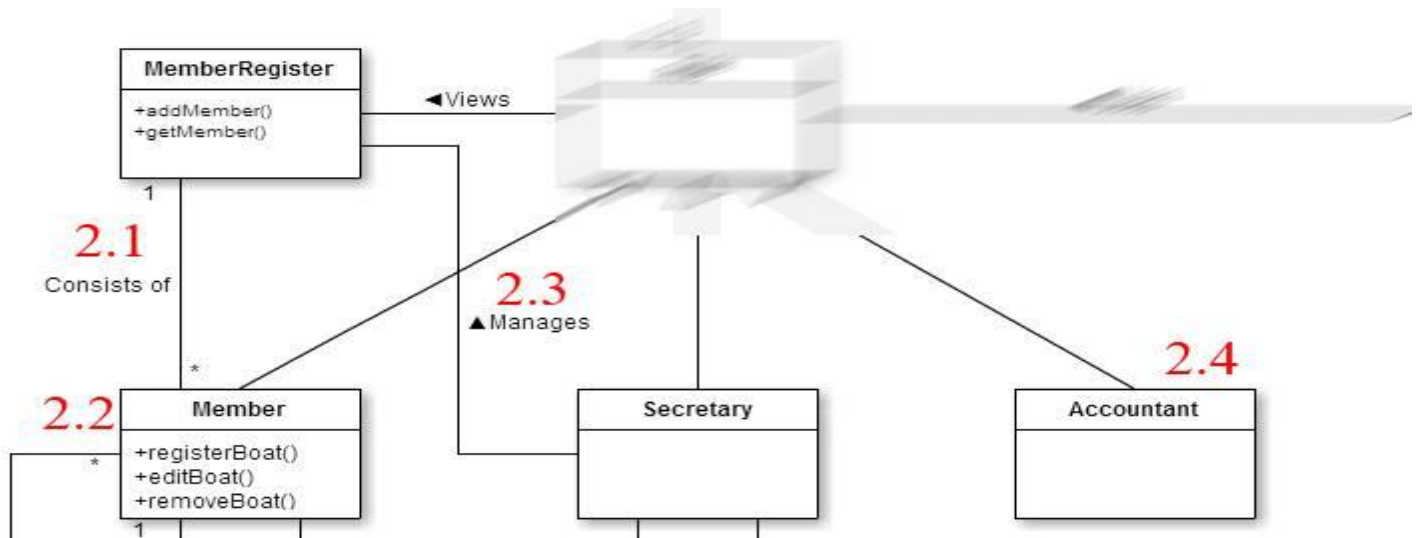


1.1 There is no mentioning of registering member in the use case so we think that this class is unnecessary also the attributes of the class are functions not attributes. (There shouldn't be any function in domain model).

1.2 Based on the use case it is not really clear why "Role" should "View" "Member Register"

1.3 Unnecessary since after login user will be authenticated as a member, accountant, and secretary anyway so this will just make the model more complex.

1.4 Doesn't cover the secondary scenario of the first use case (wrong user name and password) also wrong attributes (usage of functions instead of attributes).

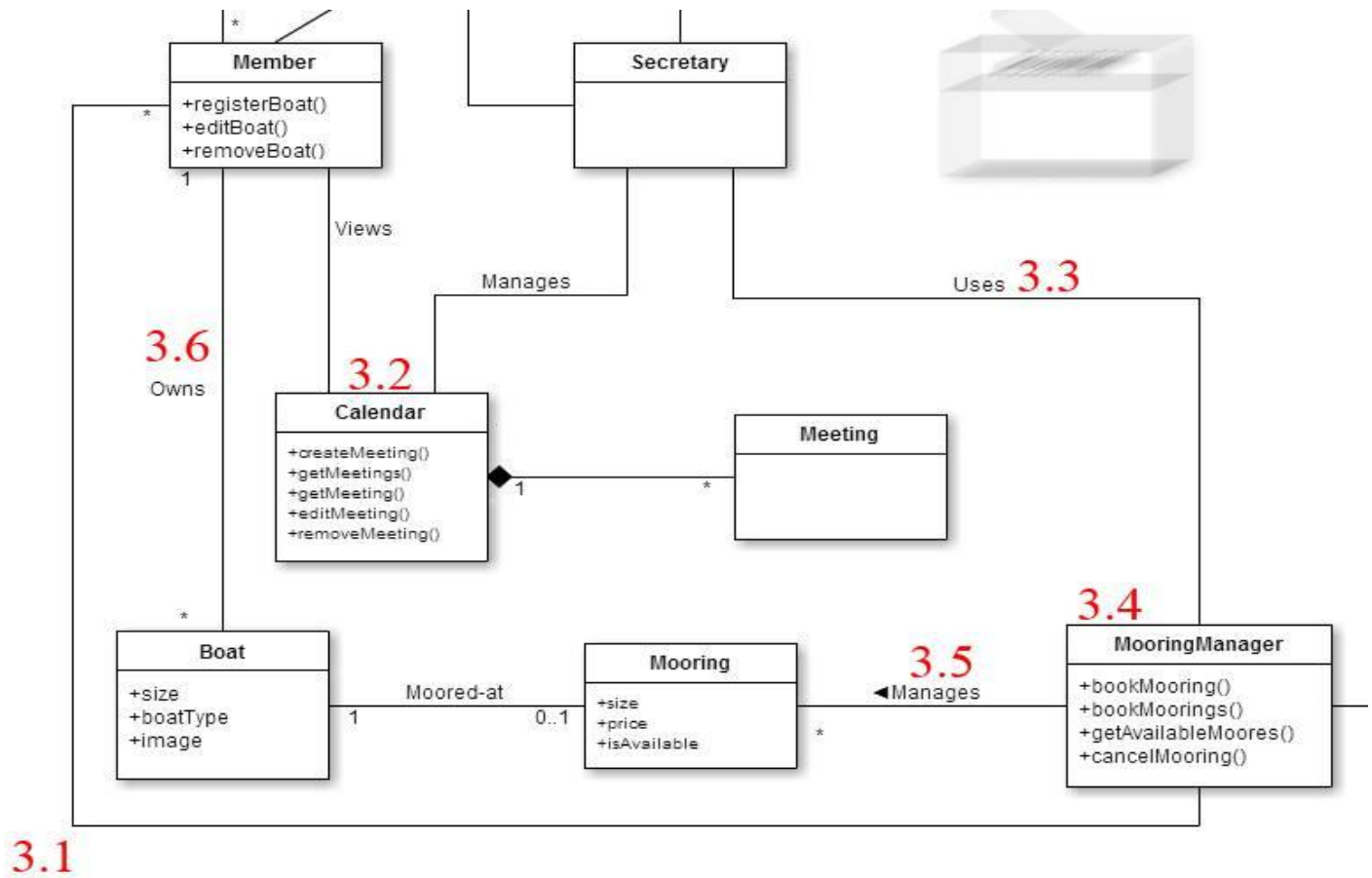


2.1 It is not really clear that why a member should consist of member register. Is it related to member registration? Is yes it has conflict with the scenario.

2.2 Register, edit and remove boat all are functions not attributes.

2.3 Member registration is not done by secretary so there is no need of being “managed” and there is no need for their association.

2.4 Wrong naming according to use case.



3.1 What is the association name between mooring manager and member? Also only one side has multiplicity.

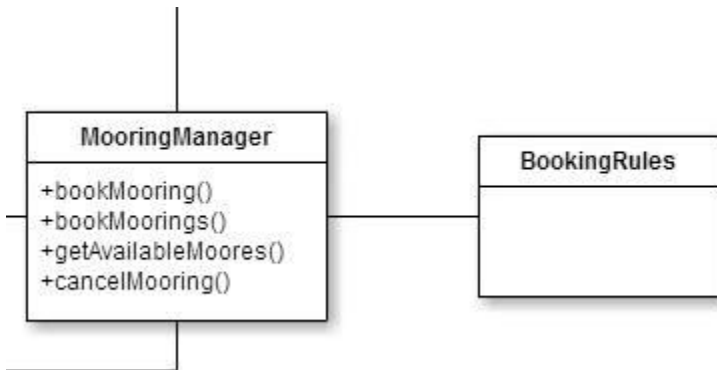
3.2 Using of functions instead of attributes. Also according to use case the boat club calendar will be updated which is not considered here. Also it doesn't cover the secondary scenario of 4th use case.

3.3 “Uses” is not a perfect naming.

3.4 Using of functions instead of attributes.

3.5 Why there is only one multiplicity?

3.6 If the association name is “owns” the arrow shape should be changed.



There is no association name between mooring managers and booking rules classes also there is no multiplicity.

Question 1

As a developer would the model help you and why/why not?

Yes it is helpful model to develop the system however; the final result might be a little bit different. We would like to also mention that since most of attributes has been replaced by functions, a developer might actually find the model more helpful.

Question 2

Do you think a domain expert (for example the Secretary) would understand the model why/why not?

Yes a domain expert will understand the model but we think that this model doesn't cover the whole scenario so the domain model expert might not get the exact scenario but of course will understand the model. Also a secretary almost understands the whole idea, but could probably understand the model even better if there was less functions instead of attributes.

Question 3

What are the strong points of the model, what do you think is really good and why?

From our point of view, simplicity and mostly correct associations and almost good cover of the scenario are the strong point of this model.

Question 4

What are the weaknesses of the model, what do you think should be changed and why?

From where we stand, the biggest weakness of the model is wrong usage of functions instead of attributes. Also there are some unnecessary conceptual classes and some necessary conceptual classes which are missing. Another paramount weakness that should be considered is inappropriate naming in some of the classes.

Question 5

Do you think the model has passed the grade 3 criteria?

Yes we think the model has the chance to pass the grade 3 and if some of its weaknesses be fixed that chance will be increased.

