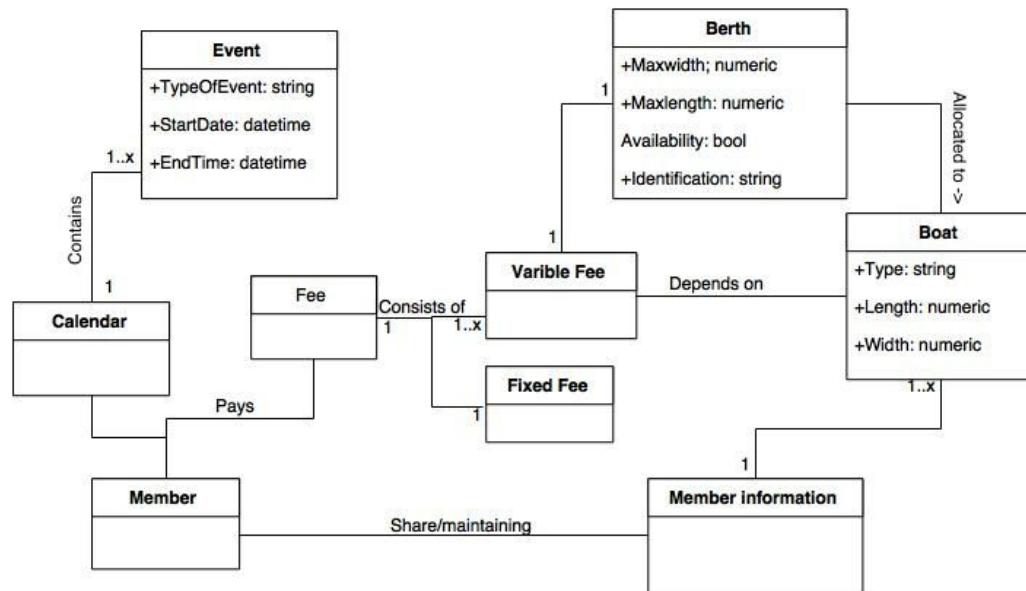


Workshop 1

Grade 2



Andreas Bom 2015-09-12

Domain Model peer review (Andreas Bom)

1. The conceptual classes for Variable Fee and Fixed Fee might not be needed, as they are not mentioned in the requirements. "Do not add things that are not there" as Larman states [1, p145].
2. A conceptual class for Secretary should be included, as stated by Larman's conceptual class category table in [1, p140], it is often important to include roles of people and actors.
3. Larman states in a Guideline [1, p148] that a description for a class should only be added under certain conditions, considering these conditions we don't feel that the Member Information class is needed. However if you want to keep it, consider adding an association label between Member information and Boat, also the association between Member and Member information is not very clear. [1, p155].
4. The associations between Calendar/Member/Fee is confusing. Consider [1, p152], Larman states that if no reading direction arrows are used, the convention is to read from left to right and top to bottom. Right now your model states that Fee pays Member. We recommend separating the associations from Member, using two associations. Also add a suitable label to the Calendar/Member association.

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

As it is a model that describes most of the problems present in the problem description, it does help. However the model suffers from both being too complicated in some areas and not complex enough in others. As an example we would like to see the “Fixed variable” and “Variable Fee” removed from the model as they take up too much visual noise. However we would really need a conceptual class for the Secretary to cover the other requirements.

We are also missing some association lines (example: Boat and Member) which on its own would make the model more complex, but by removing some of the unnecessary classes, adding such lines would not take up too much attention and the model would still look quite clear.

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

Considering the fact that the Secretary is not included, no. From a general standpoint we believe that the model features a few too many unnecessary and complex classes which clouds the vision of the basic system. The Secretary is probably not interested in knowing that there's a description class for Member, but rather how the Member interacts with the boat and the berth.

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

The model displays a good amount of multiplicity associations which makes it easy to understand in what way certain objects are related. The association descriptions are also well portrayed with the exception of the description between berth and boat. It is true that the berths are at some point allocated to the boats, or vice versa. However the true relationship between these objects would seem to be that the berth contains the boat.

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

The model lacks some of the key components that are needed to understand the problem. The model also suffers a little from over complicating some interactions between different objects, examples stated above. However, removing some classes and adding one or two new ones should probably clean this problem up nicely.

Do you think the model has passed the grade 2 (passing grade) criteria?

The designer has created an object oriented analysis using domain modelling based on the problem description and the requirements. However we feel that the model is missing one or two key components. Removing some unnecessary components and adding the important ones would most likely let this pass with a pretty good margin.

References

1. Larman C. , Applying UML and Patterns 3rd Ed, 2005, ISBN: 0131489062