File #2

Review Clarity
Language
- No issues regarding spelling or grammar. Good!

Notation and layout
- The diagram is unfortunately not a UML class diagram. (See reference Wikipedia, Class diagram to learn more).

- The file is readable by not being too small nor too big and uses a common image format .png.

- The layout is ok, as there are not too many lines crossing.

- You are using a consequent format for names, as all classes are uppercase and the associations starts with an uppercase letter.

Naming of classes and associations
- The naming of classes follows the rules of thumb, as they are all nouns in singular form.

- The naming of associations also follows the rules of thumb, as they are all verbs.

Notes:
The diagram is unfortunately not in the right format, as it is not using the correct UML for domain modeling. The correct UML for domain modeling is a class diagram.

The low grade is based on that the submission is something else than the expected class diagram.

Review Completeness

You have provided a diagram that unfortunately is not a UML class diagram and therefore not a domain class diagram.

The assignment for grade 2 was to make a domain model for the requirements 1, 4, 5, 6, 8, 10, 11 and 12. All these requirements are not considered in the provided diagram.

These are my thoughts about the completeness:

Req. 1 - Not done.

This is what is missing:
- A class (maybe Person?) containing the attributes username and password, that is associated with the Secretary and Member.

Req. 4, 5, 6 - Started, but not close to done. The provided diagram contains Member, Boat and Berth, but all are without attributes. It does however include associations between Member and Boat + Boat and Berth, which is good, though the associations are not using the right lines. (Should not be an arrow).

This is what is missing:
- Boat should have attributes such as size, type and image. Image should be made optional [0..1] (Larman, chapter 9, figure 9.20, 2004).

- Berth should have attributes such as fee and location.

- There should be a MembershipFee class with attributes such as fixedCost and variableCost. (See the last paragraph in the problem description).

- An association between Member and the MembershipFee stating that the Member Has-a MembershipFee.

- An association between MembershipFee and the Berth stating that the Berth Is-captured-on the MembershipFee.

- You should add multiplicity. (Larman, chapter 9, figure 9.9, 2004).

Req. 8 - Partly started. Both Secretary and Berth is in the provided diagram.

This is what is missing:
- An association between Secretary and Berth stating that the Secretary books Berth.

Req. 10, 11, 12 - Partly started. Both Secretary and CalendarEvent is in the provided diagram.

This is what is missing:

- An association between Secretary and CalendarEvent stating that the Secretary Manages CalendarEvent.

- CalendarEvent should have attributes such as title, startDate and endDate, as stated in the requirements 10, 11 and 12.

- An association between Member and CalendarEvent stating that the Member Views CalendarEvent.

Review Content

There are no unneeded classes in the provided diagram, but it is missing some that are crucial. The diagram is however not the class diagram we were supposed to make, so saying that it does not contain any unneeded classes is hard since it does not contain any classes.

All the information needed to realize the requirements are not present in the diagram.

The provided diagram is focused on problem understanding.

The three main concepts Member, Boat and Berth are a part of the diagram, but does not include the needed attributes.

The reservation of a berth and the history of this is not handled in the diagram.

Membership fees are not handled in the model.

I appreciate the try to make a simple sketch of the domain, but unfortunately it is insufficient and not using the right UML for domain modeling.

Suggestions for improvements
- Make a class diagram containing the parts you have in your sketch. (See reference Wikipedia, Class diagram and Larmans book to learn more).

- Create a class (maybe Person?) containing the attributes username and password, that is associated with the Secretary and Member.

- Add attributes to Boat such as size, type and image. Image should be made optional [0..1] (Larman, chapter 9, figure 9.20, 2004).

- Add attributes to Berth such as fee and location.

- Create a MembershipFee class with attributes such as fixedCost and variableCost. (See the last paragraph in the problem description).

- Add an association between Member and the MembershipFee stating that the Member Has-a MembershipFee.

- Add an association between MembershipFee and the Berth stating that the Berth Is-captured-on the MembershipFee.

- Add multiplicity. (Larman, chapter 9, figure 9.9, 2004).

- Add an association between Secretary and Berth stating that the Secretary books Berth.

- Add an association between Secretary and CalendarEvent stating that the Secretary Manages CalendarEvent.

- Add attributes to CalendarEvent such as title, startDate and endDate, as stated in the requirements 10, 11 and 12.

- Add an association between Member and CalendarEvent stating that the Member Views CalendarEvent.

Reference
Larman, C. (2004). *Applying UML and Patterns: An Introduction to Object-Oriented Analysis and Design and Iterative Development.* Boston: Addison Wesley Professional.

Wikipedia. (2017). *Class diagram.* Retrieved 2017-09-07, from https://en.wikipedia.org/wiki/Class_diagram.