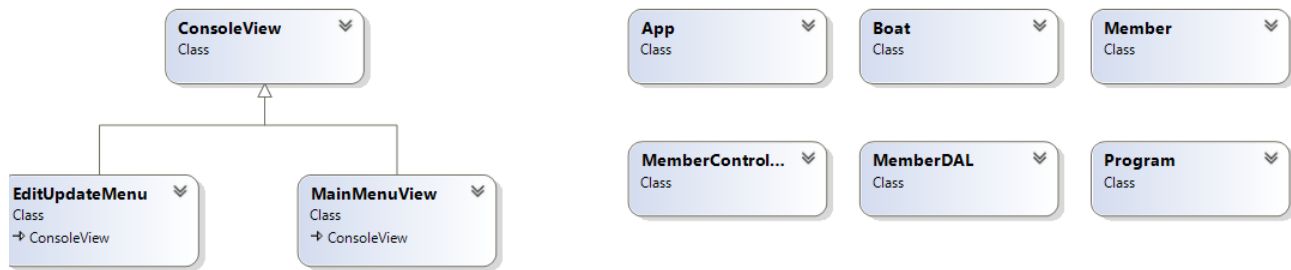# Object Oriented Analysis and Design

Workshop2 : Design

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Class diagram

Review

1. It should show the relationship between the different class.[1]
2. It could be nice to show in which package each class is. To show the MVC pattern.
3. The name of the instance can be mentioned with the multiplicity.[2]

Sequence diagram

Review

1. You could add the actor (user) on the graph to show when he interacts with the program.[3]
2. When creating an object the arrow should go on the object directly. There start his lifetime.[3]
3. It would be easier to read it if the different part would have been separated, instead of one big image. And would be more accurate as it is not the same boat or member for the whole program, as it could be understand on your diagram.

Test runnable version

Bugs

1. No bug have been found in the program. And it is well written, with a lot of comments.
2. You could improve it by listing the type of boat when adding one, and let the possibility to not change some information when editing a member or boat.
3. As the class diagram doesn't show a lot of relation it isn't possible to control its conformity

Architecture

1. Very good architecture well, implemented with even explanations with link for more information how the unique id is generated.

Code

1. Some name could be better than a simple letter.
2. Very well documented code, with no duplication/dead code, respecting the standards.

Design

1. Really good design too. No error have been found in the code about the design.

Questions:

As a developer would the diagrams help you and why/why not? Yes, however the class diagram could be more explicit about the relation between classes.

What are the strong points of the design/implementation, what do you think is really good and why? The implementation respect the MVC and GRASP patterns.

What are the weaknesses of the design/implementation, what do you think should be changed and why? The class diagram as already said the different relationship should be shown.

Do you think the design/implementation has passed the grade 2 criteria?

Yes definitely.

Bibliography

1. Larman C., Applying UML and Patterns 3rd Ed, 2005, ISBN: 0131489062, Ch 16. introduction
2. Larman C., Applying UML and Patterns 3rd Ed, 2005, ISBN: 0131489062, Ch 16.15
3. Visual-paradigm, Sequence diagram, 08-10-2015, http://www.visual-paradigm.com/VPGallery/diagrams/Sequence.html