

Workshop 1 Domain Modeling

Peer review for jm222hw

Strong points

The UML notation is correct. Associations, classes and multiplicity is drawn correctly (Larman 9.6, 9.14 and 9.16).

The association names are great. Instead of meaningless attributes like "has" or "is", the relations gives new information to how the classes are connected. Larman reasons in chapter 9.14 that you should use associations "...that indicates some meaningful and interesting connection" which is exactly what you have done.

It's good that you identified the events as a seperate class. Since Larman implies in chapter 9.12 that only primitive types should be attributes, it's correct to model it as its own class. It gives a good base for the later design and implementation.

Would this model help us as developers?

Yes. It gives an overview of the domain information needed to support the requirements.

It proposes some classes for the design and implementation, that might have gone unnoticed otherwise (like the Event class).

Weaknesses

Regarding the image attribute in the BoatDetails class. As Larman mentions in chapter 9.12: "If we do not think of some conceptual class X as a number or text in the real world, X is probably a conceptual class, not an attribute." So if there is a need to have the image in the domain model, maybe it should be a seperate class? Since it's not a simple text or number.

To further improve the readability, you might want to consider adding reading arrows on the associations that are supposed to be read from left to right. Boat to Berth, and Member to UserRegister. In chapter 9.14, Larman states that the reading arrow is optional but "it is conventional to read the association from left to right or top to bottom" if no reading arrow is present. It would be easier to follow along with the reading flow.

One more thing to think about. Larman, chapter 9.2: "A domain model, .. , is a visualization of things in the real world domain of interest, not of software components." I think that the authentication part of your model (User with username and password) is a part of the software that is to be implemented, not the real world domain that you are modeling.

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

Yes. Correct UML usage, good overview, readable and understandable.

References

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

