

Comments from peer design review.

- Discussions helped in requirement analysis.
- Create class hierarchy for message (E.g. Abstract class Message is derived by SatusChangeMessage, StateChangeMessage and DiscoveryMessage).
- Peer review helped me in designing the interface for each system.

What design patterns did you apply in this design?

- Facade
- Mediator
- Observer
- Factory
- Singleton
- Policy based or Strategy

Did the modular approach to the design help?

Service oriented architecture was of great help. I could divide the whole system into components. It became easy to define interactions between the components. I could apply my designing skills in designing individual components. The divide and conquer policy could be easily applied to break a larger system into smaller components and merging the components into one large system was just another step to follow in the whole process.

Did you find that you needed to go back and update modules to support modules designed later?

Actually yes, at each step of the design I was making sure that the individual components are working correctly as well as the system as a whole is working correctly. In order to achieve that I had to reiterate to previously designed components and make necessary changes.

Did the design review help improve your design?

Design review was of great help throughout the course. It was very easy to make oversights when designing alone but during review I could identify the defects and fix them.

Design review also is very helpful in understanding and analyzing the requirements. Because sometimes during design review I realize that I did not understand requirements correctly which has a cascading effect on design, implementation and coding?

Did the reuse of the Authentication Service help or hinder your design?

No I don't think reuse of authentication service will hinder in any sense. The only thing is the asteroid inventory system and spacecraft system is tightly coupled with authentication service or an service which implements the interface of authentication service.

Do you think you could implement this design?

Yes I think I can implement the design comfortably. I cannot imagine implementation without designing though.