

CSC 405 Capstone

Design Deliverable

Motivation

Agile is all about minimum documentation. To make you draw diagrams for your entire system is to make you do plan driven development. Which is not the focus of this course. Some agile developers will still draw models, but only enough to either help them communicate with clients or to help them develop features (i.e. accomplish user stories). Models can help us think through a particular problem and may be beneficial to developing a solution. These models aren't really maintained and updated but rather they are created to serve their purpose and then are thrown away.

I want this deliverable to serve two purposes:

- Because agile development is about interleaving process activities, free feel to continue on with the Specification phase via requirements engineering as you design your system. To this end, your models can help you communicate with your client
- Also, this will give you added experience using different types of models so you can use them going forward in a more ad hoc manner (i.e. you are better able to use them when/if the need arises)

Document Submission

Using the tool of your choice, create the following diagrams:

- A Context Diagram of the entire system
- A Data Flow Diagram showing one of the data exchanges from your Context Diagram (i.e. how the input becomes output)
- A Use Case Diagram showing user stories (converted into use cases) for one of your Features. I want to see at least 5 use cases here.
- A Sequence Diagram showing the full interactions required for one of your use cases
- A Class Diagram showing all classes/methods used in your Sequence Diagram, as well as some more classes and other user defined types that your system will need. I want to see at least 4 UDTs here.

Each diagram must be converted into either .png or .jpg format so I can view it. If your software doesn't do this, a simple screen shot (cropped appropriately) will suffice. Name each image file with the name of the diagram, e.g. "Context.png", "DataFlow.png", "UseCase.png", etc. Zip all these up and submit the zipped folder on the course website. Only one submission required per team.

If any of these diagram types do not work for your project and you would like to use a different type of diagram (for example an activity diagram in lieu of a sequence diagram), please talk with me and get my permission first.

Presentation

This will be similar to your RE presentation. I want your group to go over your diagrams, one at a time, for your system. Talk about each one and explain the feature(s) and aspects of your system that the diagram represents. Show the relationships between the diagrams (i.e. how the Data Flow diagram zooms in on one part of the Context diagram, same with Use Case, Sequence and Class). Leave some time for questions and feedback from the class.

The entire presentation should last no more than 13 minutes per team.

Rubric

Submission (meets the minimum requirements) 15 pts

Presentation (hits all points above) 5 pts

Total 20 pts