High-Level Design Specification

Due: Week 10/ 12th March

The high-level design specification specifies the overall structure of how the analysis model is to be implemented. This document is the first step of translating the requirements specification into an executable form. The table of contents for the architectural design specification is:

* Introduction.
* Architectural design.
* Common tactical policies.
* Requirements cross-reference.

**Introduction.**

The introduction shall give an overview of the architectural design.

**Architectural Design.**

The architectural design shall consist of object and class diagrams in UML notation, describing how each element of the analysis model is to be structured. Classes should be grouped into categories reflecting the logical organisation of the system, and into subsystems reflecting the physical organisation of the system. Possibilities for concurrency should be identified.

One important choice you have to make here is regarding code style. There are many different well-known code styles for Java. Pick one, document which one you pick, communicate your choice to the group, and stick with it.

**Common tactical policies.**

Localised mechanisms which appear throughout the system should be identified and policies for handling them should be developed. Scenarios describing the semantics of each policy should be given.

**Requirements cross-reference.**

This section is used to give the relationship between the analysis model and the architectural design. Whenever there is a one-to-one correspondence between sections of the analysis model and the architectural design, they should have the same name. When there is not a one-to-one correspondence, a requirements cross-reference table should be given.