miPads Supply Chain Management Project
INLS623-001 Spring 2013

This is a Supply Chain Management (SCM) project. The aim of the project is to develop a data-information system for a company called ”Maple" for its supply chain manufacturing and selling "miPad" an electronic widget. Maple is starting an entirely new division for this and standing up a whole information system that will help it in manufacturing and selling miPads. Team "623" (students in INLS623.001) is charged with defining, and deploying the information framework for this miPads project. The outcome will be a database infrastructure needed to support the full supply chain management for the Maple’s miPad widget product.

The project will be in three phases.

The first phase is the 'requirement gathering' stage which needs you to go out individually and find all that is needed to set up a SCM system for the miPads widget. I want you to concentrate mainly on the database requirements and also show how it relates to the rest of the SCM. This phase will end in your submitting a report on a data model for the design of the data base infrastructure for the SCM for the miPads widget.

The second phase is the 'design' phase where you design the database and the processes needed for your part of the project. This phase is done as a group project. There will be three or four groups and each group will be charged with designing (and later developing) one aspect of the SCM framework. In this stage, for your part, each group will define the architecture, the modules and their roles in the architecture, and the database schema needed to implement the data model for the architecture. In this phase, you also, as a group, define the processes needed for your aspect of the SCM. This includes, external procedures (client-level), internal stored functions and procedures, and the views, triggers, assertions, domain and other constraints to make your part work. You also will define the interactions with other parts of the SCM project (being developed by other groups in class) and explicitly define how the interaction will occur. This phase will end in your group submission of a design report for your part of the project.

The third phase of the project is the ‘implementation and integration’ phase. Your group will implement the database and the processes needed for your part of the CSM to work. You will test it by designing ad performing unit tests for your module components. You will also integrate your part of the CSM with other parts of the CSM and perform integrated module testing. This phase will end with a demonstration of the end-to-end CSM system for the Maple’s miPad widget product.

Important Dates:

Phase I start – Feb 06, 2013
Phase I end – Mar 04, 2013 (data model design report due before class by email)
Phase II start – Mar 06, 2013 (groups and tasks assigned)
Phase II end – Mar 27, 2013 (database and processes design report due before class by email)
Phase III start – Mar 27, 2013 (start implementation)
Phase III end – Apr 22, 2013 (demonstration in class)