Phase 2: Specification  
Fall2000

Specification precisely describes what the product must do with any constraints. In our project, we will utilize the semi-formal techniques to write the specification, i.e., we will utilize two modeling techniques:

1) **Functional Modeling**, i.e., data flow oriented technique using the stepwise refinement. This means that we need to generate DFDs starting from level 0 (Context Diagram) and make further refinements, i.e. level 1, level 2, …, level n DFDs.

2) **Class Modeling**, i.e., the classes and attributes of the classes

Thus, in our project, writing the specification document involves 3 activities:

1. Initially mapping the functions in section 2.1 of RA (sec. I.2.1) into bubbles in DFD and creating further refinements with input/output
2. Writing a data dictionary of composite data.
3. Find classes with attributes and associations

You may utilize any graphical tool to draw diagrams or they may be hand written. If you hand write them, please write them typed and clear.

*The first cut of your requirements and specifications are due on Oct 6 (Friday).*

Remember, that your first deliverable will not be graded but comments will be given if necessary.

*The format for the documentation is as follows:*

II. Specification

1. Introduction  
   1.1 Purpose  
   1.2 Definitions, Acronyms, or Abbreviations  
   1.3 References  
   1.4 Overview

2. Data Flow Diagrams  
   2.1 Context Diagram  
   2.2 Level 1  
   …  
   2.n Level n

3. Data Dictionary  
   3.1 Data 1  
   3.2 Data 2  
   …  
   3.n Data n

4. Class Diagram