

## **Systems Development: Requirements Specification Assignment**

### **Background**

This is the second of three related assignments for the requirements phase of developing a student registration database. We will engage in a practical exercise for documenting the requirements in a specification.

### **Due Date**

Each group will turn in a written report of the completed assignment due before the start of class on April 2, 2007.

### **General Requirements**

During the need assessment sub-phase, each team interviewed customers of the student registration database. Both subjective and objective murmurs, needs, and wants should have been captured.

However requirements must be objective, unambiguous, and verifiable. Usually needs do not fit this model 100% of the time. So we must translate needs into requirements.

Develop a report specifying the database registration system requirements. Note since this is a system specification, it will contain more information than a software only specification.

### **Specific Requirements**

Please make sure your group completes **all** of the assigned tasks for the entire assignment.

### Schedule Work

Just as before, plan the group's tasks for the entire assignment. Determine a reasonable work schedule for completing all relevant tasks. Note this assignment includes significant clerical and documentation activities.

### Develop Capture Model

Define a capture method that allows collection of the following data items for each requirement:

- Unique identifier to track the requirement.
- Dates of creation and modification.
- Source, for example a document or a person.
- Title, or the requirement name.
- Description, or the detailed requirement text.
- Status: rejected, in progress, verified.
- Class: primary or derived.
- Compliance: mandatory, guidance, information.
- Type: attribute, constraint, function, interface, performance.

Refer to the readings on Collection Methods for this part of the assignment. The team may use any vehicle for requirements collection, for example paper forms, electronic documents, spread sheets, or databases. But the chosen method must capture all of the above listed information.

### Transform Needs to Requirements

Using the above method, transform each murmur, need, and want obtained during the assessment sub-phase into a requirement. Use follow-ups from interviews and survey instrument responses as inputs for this activity.

### Verify Characteristics

For each requirement captured, make sure it meets all five of our taxonomy characteristics. Verify every requirement is clear, measurable, modifiable, neutral, and objective.

### **Final Report**

Submit a report including the work schedule, a discussion of the capture method, and the system requirements specification. See the appropriate readings for guidance on an outline for the specification.