UNIVERSITY *of* MARYLAND
UNIVERSITY COLLEGE - *Asian Division*

Project 3: Final Team Project

Objective:

For this project you will experience the first three phases of the system development life cycle for some worthy problem.

Requirements:

This project is a team project and has a value of 60 points. It is important to mark all work that you do on the project as the scores given will be dependent on individual effort. Each group will have the opportunity to suggest score distribution (+/- points) based on group members effort. The completed project report will be submitted on the last class of the 7th week. Each group will do a 30-minute project presentation the last class of week **7.** The term project requires a simulation of the first three phases of the System's Life Cycle for a given situation. The project report and presentation will need to cover each of the three phases.

The general requirements for each of the phases are:

1. Planning Phase:

Problem identification, development and identification of system objectives and constraints. The final outcome of this phase is the feasibility study. An initial project schedule (Table 7.1 p. 128) will be developed by the group with subtasks, areas of responsibility, and time estimates established. The System Study Proposal is created at the completion of this phase of the project and should contain appropriate items outlined in Figure 7.3.

2. Analysis Phase:

Identify end-user information needs and determination of the level of system performance to satisfy the end-user needs. This phase consists of two major components: data gathering and data analysis. These two components need to be meticulously documented by the team to ensure a complete understanding of the current system. The System Design Proposal is created at the completion of this phase of the project and should contain appropriate items outlined in Figure 7.5.

3. Design Phase:

Determination of the processing and data that is required for the new system, and recommendations for the hardware and software to transform the data into information. You will need produce a well documented design with figures as part of the implementation proposal. These should include Data Flow Diagrams, Entity-Relationship Diagrams, Project Schedule, and a written description of what they represent. Create an Implementation Proposal as shown in Figure 7.9.

The systems approach to problem-solving will be followed throughout the project. Relationships and data flow will be clearly documented. Alternative solutions, evaluation of each solution, and selection of the best solution will be stated clearly in project report. Include figures where appropriate.

The group may select any worthy project or make a choice from the following possibilities:

- Publications library application
- Training files application
- Student files application
- Small business application
- Travel agency application
- Inventory application
- Medical clinic application