Identifying the Requirements and Creating the Data Flow Diagrams(DFDs)

Identifying the Requirements

1) You should write a detailed statement of what your system must do and the main characteristics of the system (this means you should define the requirements of your system). For that purpose, you should group your requirements as functional requirements and non-functional requirements.

Functional Requirements

a. Be sure to state your requirements clearly.
b. Include a numbering scheme that will allow traceability.
c. You may provide a brief design rationale for any requirement which you feel requires explanation for how and/or why the requirement was derived.

Non-functional Requirements

a. Be sure to state your requirements clearly.
b. Include a numbering scheme that will allow traceability.
c. You may provide a brief design rationale for any requirement which you feel requires explanation for how and/or why the requirement was derived.
d. Also, remember to include system, performance, and usability requirements in this section.

Validation Criteria

Requirements Validation: How do you know that you have the right requirements? What steps did you take to make sure that you had enough information? What steps did you take to make sure that you had correct information?

Of course, requirements will change over time at each step as project moves from one stage to another. But, for the beginning, to make sure you have identify, at least, all the important user and functional requirements, choose one or two of your friends (this depends on the number of the people in your team) as a customer or as a user of the system. Do not tell him/her the user & functional requirements you consider in the beginning and then discuss all together these requirements. State the missing requirements or the requirements that should be changed during these process.

Creating Data Flow Diagrams (Process Modeling)

2) Create the related Data Flow Diagrams of your system.
   - **a.** Context Diagram
   - **b.** Level 0 Data Flow Diagram (Diagram 0)
   - **c.** Level 1 Data Flow Diagrams (For every process in Level 0)
   - **d.** Level 2 Data Flow Diagrams (For at least two processes in Level 1)

NOTE: You can use any tool to create the DFDs. (Visual Paradigm, SQL Data Modeler, Visible Analyst, etc.)

NOTE !! Same or similiar projects will be considered as cheating and both teams will get ZERO from the term project.

!! You should submit your assignments ON TIME. Any assignments submitted after the due date will **NOT** be accepted.