Lebanese American University
Computer Science and Mathematics Department, Beirut
CSC490 Software Engineering
Course Project-Submission III
Implementation
Due Date: December 5th, 2021

At this point of the project you implement the system. The submission should consist of the following three parts:

A. Class Description

You will start with the architectural design which is an intermediate step between specification and design. For this, you are supposed to submit a complete architectural model that includes system structuring (showing how the system is decomposed into sub-systems) and a modular decomposition of the subsystems. You have already included such a model in your second submission. Copy it as is into this one. Also, include Data Flow and Entity-Relationship diagram.

B. Method/function Specification

In this part, you have to write the specification of the different methods/functions that you will implement. You have to use the format and notation we saw in class (not included in the textbook). You can find the documentation in the book "Data Structures and Other Objects Using JAVA by Main, 2nd edition or later or in Java Documentation (regardless of the language you are using). Your specification should be complete so that any programmer can take the document and immediately implement the methods/functions. Always keep in mind people who will be involved in the maintenance/evolution of the system when you write the specification. Remember, most probably these people will not be you.

C. The Executing System

This, now, is the implementation of all what you have designed so far. If you took the time to design the system properly, this step should be easy. Write well-documented, clear and clean code and follow the conventions. Be ready to answer questions regarding the design as well as coding details.

Notes:

- Make sure your solution to the problem that you are solving is optimal and well-designed.

- Submit an electronic copy including parts A and B. Part C should be submitted electronically only (on a CD or a USB).

- Have your code ready to execute on PCs in the labs or on a laptop that **you will be bringing. If your system involves networking, make sure you bring more than one PC.**

GOOD LUCK!