

1. Introduction

About the Project:

The final project of this course this semester is the library management system. It is supposed to execute common functions of the school library in reality. A user should be able to use his own username and password to access the system and perform corresponding operations according to his user type. For example, a reader can borrow a book and a librarian can add a new reader.

Project Objective:

- Design a project using C++ programming language;
- Implement object-oriented programming concepts such as inheritance, overloading, classes, objects, methods;
- Manipulate different types of data using appropriate data structure such as list, queue and vector;
- Perform input / output of data from / to files;
- Try to apply advanced concepts such as template;
- Practice analyzing and debugging techniques;
- Develop good coding habits:
 - Use separate code files for different classes' declaration and implementation;
 - Use functions to make the code concise and modular;
 - Use comments where necessary;
 - Use appropriate indent during coding;

Team Configuration:

You can form a group of 3-4 students to work on this project together. Each group is required to submit a soft copy of your source code (.cpp, .h and corresponding data files) and a project report. Detailed requirements will be given later in this file.