Assignment: 2

You should form a group of three students (Maximum) for this task.

Due date/Presentation: 26 May 2017.

**Submission:**

- Hardcopy of the assignment is to be submitted to the lecturer on or before the due date. You must indicate on the front page:

1. Your name and student number
2. The module name: Programming Principles and Development
3. Completed - Which parts of the project you did do
4. Not Completed - Which parts you didn't do
5. Known bugs - (if we find bugs in your code that you did not report, we will assume you didn't test your code well enough to find the bug)
6. Extra credit - what you did for extra credit (you will only get points for what you mention in this section

- Electronic copy in zip file must be submitted to MDIS blackboard on or before the due date. Name the zip file as Assignment2.zip

1. Your soft copy should consist of 1 to 2 pages of item (1) to (6) above in MS word format.
2. The rest should be your separate C++ file for the assignment.

|  |  |
| --- | --- |
| **Marking Scheme** - Marks will be awarded for: | |
| Programming: | 70% |
| Code Documentation: | 10% |
| Additional Features: | 10% |
| Presentation: | 10% |
| Total: | 100% |

ABC Company deals with import and export of stocks. The company has few department and about 50 employees. The company has requested you to write a C++ program for file based database for stock.

The system must also be able to add stock when new stock comes in. The system must also be able to edit, search for stock. When the stock not imported any more, then it allows to delete the stock from database.

You must use C++ program to create file based system to add, edit, delete and search for the stock records.

Your program must include necessary validation to accept the correct input for adding and editing record.

Sample screen design of each function is shown below:

You will need to create functions for each of the 5 menu options. Entering the number will call the correct function.

**Screen Design**

### Welcome to ABC Stock Database

#### Menu

1. **Add stock**
2. **Search for stock**
3. **Edit stock**
4. **Delete stock**
5. **Exit**

#### Add stock Record

1. **Stock\_Name : - XXXXXXXXXXXXXXXXXXXX**
2. **Stock\_ID : - XXXXX**
3. **Manufacture date : - XX/XX/XXXX**
4. **price : - XXXX**
5. **Brand : - XXXX**
6. **Expiary Date : - XXXXXXXXXXXXXXXX**

#### Confirm add employee (Y/N)? - X

#### Search for Stock records

Enter Stock\_ID : -xxxxx

1. **Stock\_Name : - XXXXXXXXXXXXXXXXXXXX**
2. **Manufacture date : - XX/XX/XXXX**
3. **price : - XXXX**
4. **Brand : - XXXX**
5. **Expiary Date : - XXXXXXXXXXXXXXXX**

#### Search again (Y/N)? - X

###### Edit Stock records

Enter Stock\_ ID : -XXXXX

1. **Stock\_Name : - XXXXXXXXXXXXXXX**
2. **Manufacture date : - XX/XX/XXXX**
3. **price : - XXXX**
4. **Brand : - XXXX**
5. **Expiary Date : - XXXXXXXXX**

Confirm changes (Y/N)? - X

#### Delete Stock Record

Enter Stock\_ID to be deleted : -xxxxx

#### Confirm delete (Y/N)? - X

*The cover page of your report should be written as follows:*



**GROUP ASSIGNMENT SUBMISSION SHEET**

**NAME:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **NRIC/FIN: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**NAME:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **NRIC/FIN: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**NAME:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **NRIC/FIN: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Batch: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**MODULE TITLE: Principles of Programming and Development**

**COURSE WORK TITLE** (Assignment No. and/or essay/dissertation title):

**LECTURER: Malarkodi**

**SUBMISSION DATE:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**We certify that this assignment is our own work. It does not reproduce anyone else’s work without proper acknowledgement.**

**Signed By: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**