Diploma in ICT & Computing

Assignment Specification

Institute Name : IDM Achievers International Campus

Unit Names : Advanced Visual Programming (VB.NET) - Part II

Introduction to Procedural and OOP

Unit Value : Unit 11 & Unit 09

Lecturer :

Unit Outcomes :

1. Demonstrate and deliver a range of transferable skills
2. Show evidence of working and contributing to a group situation
3. Identify a given problem and provide feasible solutions
4. Monitor and review own learning experience.

Date Set :   **Due Date** :

Student Name: **H/O Registration No:**

Branch Name :   **IDM Student No** :

Assessor Comments:

Assessor Signature: **Date: ___/___/___**

Stock Management System

In real word with each and every organization we can see the requirement of managing stocks (inventory). In this assignment student need to do a survey to examine the processes and functions regarding to Stock Management Systems and need to implement a user friendly software to handle stock.

Main requirements of the system:

1. The system must include managing of Stock (Inventory) including the following function:
   - Maintain the Stock Master File (SMF)
   - Maintaining the Transaction Procession File (TRF)
   - Supplier Registrations

2. Report generations regarding to the above system
   - Supplier details report
   - Transaction processing detail report

(You may add any additional requirement for the database and user interfaces)

Aims

To implement the software system outlined above.

- Provide an effective and an efficient performance.
- The user view of the system will be a number of interactive windows forms implemented in visual basic.
- It is critical that data validation and error trapping is comprehensive.
- Ensure that the input is acceptable to and understood by the staff.

Assume you are an individual to develop this system, which leads you to perform as a project manager, system analyst, programmer, etc…

Task 1

1.1   Briefly explain the Software Development Cycle.

1.2   Briefly explain the what is .Net Framework and features of .NET framework

1.3   Explain about Visual Studio main IDE component

Task 2

2.1   Design a database to include necessary tables.

2.2   Set up the database structure by using suitable RDBMS. (*MS Access, MySQL or MsSQL server)*

2.3   Populate the database with suitable test data.

Task 3

3.1   The designs of all the required algorithms are required as part of this task. You can use suitable design techniques (Class diagrams, Activity diagrams, Use case diagrams etc.)

3.2   Design necessary user interfaces.

Task 4

4.1   Using VB programming language implement the stock management System designed in Task 03.

Task 5

5.1   Carry out complete system testing and provide user guide. System testing and user guide must include suitable screen shots. Test your complete project with suitable data.

Task 6

6.1   Produce a publishable working copy a compiled version of the completed assignment together with software installation notes. The installation note should include the system requirements.

Task 07

7.1   Develop the <u>java Programs</u> for **Practical Assignment 1, Assignment 2** and **Assignment 3** in **Book II**.

Outcome:

The student must submit the hard copy of the completed assignment along with an attached softcopy.

NOTE: all media should be free of viruses. Any media that contains viruses will be subjected to a **Fail** grade.