

FETAC Level 5 - Software Development C20054

DEADLINE: April 13th, 2015

PROJECT : 70 %

You are required to design and develop an application which allows an administrator and student to log in and perform the following. Students will have a choice of selecting A Web Design or Java Programming exam.

The Administrator should be able to do the following when logged in

- Admin username and password must be stored in a binary file. This must be verified during log in.
- Connect and load data from 2 tables in a data file (eg Database with a Web and Java table of 20 records each)
- Add/delete/edit/save records (Each record comprises of ID, 1 question, 3 sample answers and the correct answer)

The Student should be able to

- Select an exam in Web Design or Java Programming either of which will involve selecting an answer to 20 questions. Each question should display 3 possible answers. The student must then select their choice of answer.
- The program should check if the answer is correct and allocate a score of 5 per cent for same
- Record and store each student name and score (eg a third table for scores may be used)

The application must also perform the following

- Data validation must be implemented to allow the administrator to enter 1,2 and 3 only when representing the answer to each question in the exam.
- You are required to enhance the user interface as much as possible with graphics, etc
- Display student names and scores on screen

Once you have your software developed you should provide screenshots to show each working step of the program. You also require a printout of the vb source including planning notes, sketches, etc which you may have used in the design phase. Your software must be accompanied by a user manual clearly explaining how to use the software. Ensure your program is commented and has your name and date included. Your finished product will be assessment in accordance with evidence as outlines in Marking Scheme.

Marking Scheme	
Sketches or Flow chart or Algorithm	2 (1 mark for input-process-output, 1 mark data types)
Access Database created	3
Screenshots or details of software testing	2
Images prepared (Photoshop)	3
Source code including comments	5
Appropriate object,variables, procedure names	5
Program performs each function as required	20 (Add/Edit/Delete/Save/Calculate score functions – 5 X 4 for each)
Screenshots showing program working at each stage	15 (Add/Edit/Delete/Save/Calculate score functions – 5 screenshots of 3 each)
User manual	15 (5 for screenshots, 5 for explanations, 5 for layout)

IMPORTANT: A copy of all electronic files and printouts must be given to your teacher in class on or before this deadline.

Student name: _____ *I confirm this is my own original work*

Date: _____

Signed: _____