



**FACULTY OF MANAGEMENT
NOVEMBER 2014 EXAMINATION**

DEPARTMENT OF APPLIED INFORMATION SYSTEMS

<u>MODULE</u>	:	DEVELOPMENT SOFTWARE 2 (MODULE B)
<u>CODE</u>	:	DSW21B3 / DSW02B1
<u>DATE</u>	:	17th November
<u>DURATION</u>	:	3 HOURS
<u>TIME</u>	:	12:30
<u>TOTAL MARKS</u>	:	85

<u>EXAMINER</u>	:	Mr P Joubert
<u>MODERATOR</u>	:	Dr H Pretorius
<u>NUMBER OF PAGES</u>	:	4 PAGES

INSTRUCTIONS TO CANDIDATES:

- Question papers must be handed in.
- This is an open book assessment.
- Read the questions carefully and answer only what is asked.
- The general University of Johannesburg policies, procedures and rules pertaining to written assessments apply to this assessment.

... Cont.

Instructions to Students:

1. Read through this paper before you start.
2. Start up a new Visual Studio Project

3. Rename the following:

3.1. Folder name to – **Exam999999999**

Replace the **999999999** with your student number

4. Please save your program regularly. Power failures may occur.
5. Make sure your **Full Name, Student Number, Group, Qualification** and the **Venue** appear in the code window, at the top, as comments.
6. Marks are allocated **ONLY** for **working code, named variables and controls using standards, formatted results, sensible error messages, comments and a user friendly project**.
7. **DO NOT FORGET:**
 - ✓ Name your variables according to what they do.
 - ✓ Indent your code to make it more readable.
 - ✓ Writing meaningful comments for your coding.

8. **ONCE YOU HAVE FINISHED THIS EXAM, MAKE SURE YOU COMPRESS THE FOLDER USING THE 7ZIP PROGRAM AND SUBMIT THE EXAM VIA ULINK.**

Commented [HW1]: Where?

Commented [HW2]: Kyk net na die. Nie seker wat jy bedoel.

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Case Study:

Create a website for handling marks for students across a number of courses.

Question 1 – Layout [15]

The website should look as follows (depending on the access Level of the logged in user).

Access level 0 (i.e. not logged in):

DSW2 BAY2

Course: BAY2
Please login

User:

Password:

Login Logout

Access level 1 (student (read-only) access):

DSW2 BAY2

Course: BAY2
Number: Name: Surname: Mark:
12345678 Smith John 45

User:

Password:

Login Logout

Access level 2 (lecturer (modify) access):

DSW2 BAY2

Course: BAY2
Number: Name: Surname: Mark:
12345678 Smith John 45
87654321 Doe Jane 55

User:

Password:

Login Logout

Question 2 – Navigation bar and course information [15]

2.1. A dynamic navigation bar listing all the courses in the database should be displayed in the top left corner of the screen.

[10]

2.2. The name of the current course should be displayed below the navigation bar but above the course information table.

[5]

Question 3 – Login and Logout [15]

3.1 If the user clicks on login an ajax method should call the login.php page, that will check if the username (email) and password provided matches the data in the database. The php page also needs to set the Student ID and Access Level as session variables and refresh the page.

[10]

3.2 If the user click on the logout method an ajax method should call the logout.php page. This page will reset the Student ID and Access Level session variables and refresh the page.

[5]**Question 4 – Display marks. [20]**

4.1 If the Access Level is 0 no marks should be displayed.

4.2 If the Access Level is 1 (read-only access) then only the marks for the currently logged in student should be displayed

[10]

4.3 If the Access Level is 2 (modify or change access) then all the marks for the selected course should be displayed.

[10]**Question 5 – Changing marks and updating student information [20]**

5.1 If the user clicks on the change mark button they should be directed to a new html page with a form that will update just that student's mark for the selected course. There must also be a link back to the main page.

[10]

5.2 If the user clicks on the update student button they should be directed to a new html page with a form that will update just that student's student number, name and surname. There must also be a link back to the main page.

[10]**TOTAL [85]**