**AS91892/AS91893 Level 2 4 credits each**

Implement advanced procedures to produce a specified digital information outcome with dynamically linked data

**Due Date: Friday, Week 1 Term 3**

**Name: Steven Little**

**AS91892 Use Advanced Techniques to develop a Database**

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| **Achievement** | **Achievement with Merit** | **Achievement with Excellence** |
| |  | | --- | | Use advanced techniques to develop a database | | |  | | --- | | Use advanced techniques to develop an informed database | | |  | | --- | | Use advanced techniques to develop a refined database | |
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**AS91893 Use Advanced Techniques to develop a Digital Media Outcome**

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| **Achievement** | **Achievement with Merit** | **Achievement with Excellence** |
| |  | | --- | | Use advanced techniques to develop a digital media outcome | | |  | | --- | | Use advanced techniques to develop an informed digital media outcome | | |  | | --- | | Use advanced techniques to develop a refined digital media outcome | |

*Read the entire assessment document before starting this assessment*.

You are required to develop a MySQL/PHP database which is accessed via a web site. This will require HTML and CSS skills, as well as the MySQL and PHP skills you have developed.

**Assessment conditions:**

This assessment is to be completed independently and be entirely your own work. It is expected that your solution will therefore be different to other students in the class.

You may work on the program at school and/or at home on your laptop however all code must be your own work. You will be required to sign and authenticity document to verify the work as your own.

You may use any previous tasks, tools or notes developed during the course to assist your assessment.

You should not communicate with other students about the assessment until the deadline and all submissions have been made,

# St Bede’s College

## NCEA Assessment Cover Sheet

## (This cover sheet must be attached to your submitted work)

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| **Work Submitted** (To be completed by student) | ACHIEVEMENT STANDARD Level 2 6 Cr AS91368 Implement advanced procedures to produce a specified digital information outcome with dynamically linked data **√** |
| **Assessment Cover Sheet** |  |
| *Plan showing each version* |  |
| *Testing data for EACH version* |  |
|  |  |

### NAME:Steven Little TEACHER: RUD

### HOUSE:

"The work presented here is substantially my own, in that:

1. I did the reading and planning
2. I wrote the whole assessment
3. I have not used other people's work, except where acknowledged"

Signature \_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### GRADE AWARDED:

### Teacher Comment:

### Student Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Indicates sighting of and acceptance of the grade)

**Programme Brief:**

Each year the Hogwarts PTA has a major fundraising Ball for the School. You have been approached by the PTA to develop a database that will allow uses to purchase Ball tickets online.

Your website will have at least 2 pages; one to purchase tickets and the second to find out information or search the db.

The database will create a unique number for each purchase made, and record the person’s name, address, email, together with the number of tickets they require. There will be 2 check boxes which will identify if the tickets have been paid for and if they are to collected at the door. People will complete their Ball ticket order online, and upon completion, be advised on the web page that their tickets have been successfully processed.

An administrator from the PTA will be able to use an ‘admin.php’ page to search for an individual unique number or surname and upon finding the appropriate record update the ‘paid’ checkbox when the payment has been made. They will also be able to run the following queries on the database.

The PTA also need to know the following:

* **How many tickets in total have been sold** at any point in time
* **How many payments have been made.** IE the NUMBER of paid tags there are.
* **How many tickets have been paid for.** Eg If a person has booked 5 tickets and it is marked as paid, 1 payment has been made and 5 tickets have been paid for.
* **How many payments are expected on the night of the ball.** These will be tickets which are NOT paid for and ‘to be collected at the door’.
* **An alphabetical list of all people who have ordered tickets.**
* **An alphabetical list of all people who have NOT paid.**

You should be aware of the user interface as users should not have to be trained to use the system. It should be relatively self-explanatory. You are encouraged to follow sound design principles with your interface design. Your database must contain at least 30 records for trial purposes which may be either entered individually or imported as a .csv file. (Attached)

Your website should include evidence of how you have ensured data integrity is maintained. This implies making sure that all required fields are entered.

You should explain and address relevant implications of BOTH your database and website.

Explanatory Notes:

**Advanced techniques** that you could use in creating the database include:

* linking data in related tables or nodes using queries or keys
* writing custom queries to filter and/or sort data
* using logical, mathematical and/or wildcard operators
* customising presentation of the data
* using custom forms to add user input to the database
* setting validation rules for data entry.

**Implications**

Explain the implications associated with your outcome. This could include

* why it needs to be socially/culturally acceptable
* why it needs to honour legal, ethical and intellectual property obligations
* why it needs to be accessible, usable and functional
* why it needs to be address issues of privacy

**Testing**

Make sure that your queries are accurate and produce the correct response. You should do a desk check and you should test the queries individually in the database admin tool that you are using. This should be carried out on all queries.

**Improvement of the database**

You should improve the database through feedback and cycles of trialling and testing iteratively throughout the design, development and testing process to improve the quality of the database.

Submit evidence of how you have used advanced techniques to develop a database.

The evidence could be in the form of a document that includes screenshots showing the development of the outcome including evidence of designing, developing and testing. This should not be any longer than 5 A4 pages. This could also take the form of a narrated or subtitled video or screen capture.

Submissions:

1. Your code in a **folder** named ‘**AS91892\_3 Surname Firstname’**, and saved in

**J:\DTC** directory**.** This should contain your htdocs files and your sql dump file. You should NOT use a PW on your xampp files.

1. Evidence of your testing procedures should be included.
2. Your php and HTML should include comments throughout and be indented where appropriate to assist in reading.
3. This document with the sign authenticity statement must also be submitted.