



Christian Brothers' High School, Lewisham

Year 12 Information Processes & Technology

Multimedia System Project 25% of Assessment

Project:

A company has approached you to design a multimedia system to promote their products. However, the client understands that to do any justice to the company, it is far too broad a task to develop a multimedia system on their entire product base. It is expected that you choose one aspect/product that you feel would best portray that particular company.

Your project can be from one of the following areas:

- Leisure and lifestyle
- Education and training
- Virtual Reality and simulations.

Outcomes:

H1.1	Applies an understanding of the nature and function of information technologies to a specific practical situation.
H1.2	Explains and justifies the way in which information systems relate to information processes in a specific context.
H2.1	Analyses and describes a system in terms of the information processes involved.
H2.2	Develops solutions for an identified need which address all of the information processes.
H3.1	Evaluates the effect of information systems on the individual, society and the environment.
H3.2	Demonstrates ethical practice in the use of information systems, technologies and processes.

H4.1	Proposes ways in which information systems will meet emerging needs.
H5.1	Justifies the selection and use of appropriate resources and tools to effectively develop and manage projects.
H5.2	Assesses the ethical implications of selecting and using specific resources and tools.
H6.1	Analyses situations, identifies a need and develops solutions.
H6.2	Selects and applies a methodical approach to planning, designing or implementing a solution.
H7.1	Implements effective management techniques.
H7.2	Uses methods to thoroughly document the development of individual and/or group projects.

Mark Allocation:

1. Understanding the Problem
2. Making Decisions
3. Designing solutions
4. Implementing
5. Testing Evaluating and Maintaining
6. Social and Ethical Issues
7. Files saved correctly using correct software.

Date Due:

Year 12 I.P.T Multimedia Systems Project

The following sheet is to be used as a GUIDE in order to appropriately and/or correctly complete the Multimedia Systems Project.

Understanding the problem

- One (1) A4 page on what the problem is, who are the participants (for example the intended audience), data, requirements.
- Project plan outlining the overall schedule, subprojects (inc. schedules) information technology and data/information required by the system. Minimum two (2) A4 pages.
- A one (1) A4 page requirement report that outlines the aims and objectives of the multimedia system and how it will help promote the organisation. *Convince your client how good your work will be!*

Making decisions

- Suggest two (2) or more possible solutions to the problem. Include for each:
 - i) Constraints (factors that affects the system and prevents it from achieving the desired objectives) on the system. These could be financial, technical, environmental or personal.
 - ii) Advantages and disadvantages of each solution.

Designing solutions

This stage is the transformation of the specifications into appropriate hardware, software and information processes. It involves purchasing hardware, writing or purchasing software, and specifying information processes to make he system operational. In this section you must include:

- One (1) Data Flow Diagram (DFD) on the multimedia system.
- A storyboard layout of the network structure of your multimedia system.
- A storyboard for **EACH** of your screens describing the elements occurring.

Implementing

No two students can produce a multimedia system on the same topic area. That does **NOT** mean that if someone does Automobiles that no-one else can, it just means that no-one else can do the same **CARS** as that person.

- Your presentation must have at least 15 slides in total. This includes your opening slide and closing slide.
- Each slide **MUST** contain the following:
 - i) One (1) video **OR** some type of graphic
 - ii) Two animated sequences
 - iii) A non-blank background (it must be aesthetically pleasing)
 - iv) Three (3) buttons with links to other screens (e.g. Back, Home, Next)
 - v) Two (2) audio effects
 - vi) Ensure that the timing of each element is appropriate.
 - vii) One (1) paragraph briefly describing what the point is of that particular screen.
 - viii) Endnotes – acknowledgements of any non-original elements, with comments as to why you chose it. (This is to be your LAST slide)
- It must be created using Microsoft Powerpoint 97 or Powerpoint 2000 and handed up on a 100MB Zipdisk.

- You are to follow the **Multimedia Design** elements specified on page 235 – 236 in the Heinemann Information Processes and Technology : H.S.C Course textbook.

Testing, evaluating and maintaining

In this stage, the performance of the system is tested and then evaluated. You must include:

- Methods of testing conducted and reason *why*.
- Evaluation of the multimedia system by comparing it to the initial aims and objectives outlined in the requirement report.
- Methods of maintaining the system.
- Explain how the seven (7) information processes have been carried out for you multimedia system.

Social and ethical issues

- One (1) A4 page that includes information about the type of system, work environment and systems and ethics.

Year 12 Multimedia System Marking Sheet

Task	Mark
Understanding The Problem 8%	
Has the student defined the problem sufficiently ? (2 or more paragraphs)	/1
Has the student outlined who the participants are ?	/1
Has the student discussed at least five (5) types of data required ?	/5
Has the student outlined the requirements ?	/1
Has the student provided an overall schedule in the project plan ? Gantt Chart and explanation	/2
Has the student broken the project into subprojects?	/1
Provided pictorial explanations for the subprojects?	/2
Inclusion of the people involved.	/1
Has the student outlined the Information Technology required by the system?	/1
Have the data/information requirements been outlined?	/1
Project plan two (2) or more pages in length?	/1
Requirement Report is one (1) or more pages in length	/1
Aims and objectives outlined in the requirement report	/2
Explanation of how the new system will help the organisation	/1
Factual information on particular topic supplied (Minimum 1 A4 page)	/5
Sub-Total	/26
Making Decisions 4%	
Student has given two (2) possible solutions to the problem.	/2
Constraints on the system supplied for each solution. (Financial, Technical, Environmental and Personal)	/6
Advantages and disadvantages of each possible solution.	/4
Sub-Total	/12
Task	
Mark	
Designing solutions 14%	
Dataflow diagram on the multimedia system supplied and correct	/1
Storyboard of the network structure of the multimedia system.	/1
Storyboard for EACH of your screens	/15
Has the student described each screen sufficiently?	/15
Has the student provided information about how navigation will be achieved?	/1
Sub-Total	/43
Implementing 64%	
Has the student supplied 15 slides	/15
Is there at least one (1) video or graphic on each screen?	/15
Are there at least two (2) animated sequences on each screen?	/30
Is the background appropriate and non-blank?	/15
Has the student included three (3) buttons for navigation?	/45

Has the student included two (2) audio effects per slide?		/30
Is the timing for each slide appropriate?		/15
Has the student including a paragraph of text explaining the point of each screen?		/15
Is the text readable/aesthetically pleasing?		/15
Has the student provided endnotes as the last slide?		/1
Has the multimedia project been saved appropriately?		/1
	Sub-Total	/197
Testing, Evaluating and maintaining 7%		
Methods of testing to be conducted and reasons why given		/2
Methods of testing and reasons why is at least ½ A4 page minimum in length		/1
Evaluation of the new system supplied		/1
Evaluation compares new system to initial aims and objectives outlined in requirement report		/1
Evaluation is at least ½ A4 page minimum in length		/1
Methods of maintaining the new system given (Minimum ½ A4 page in length)		/2
Has the student provided half (½) a paragraph for each information process correctly?		/14
	Sub-Total	/22
Task		Mark
Social and Ethical Issues 2%		
Student has included social and ethical issues of the multimedia system (Minimum 2 A4 page)		/2
Information about the type of system is included (½ A4 page minimum)		/1
Information on the work environment is included (½ A4 page minimum)		/1
Information on the issue systems and ethics of the new system supplied (1 A4 page minimum)		/1
	Sub-Total	/5
Electronic Files 1%		
Has the multimedia project been created using Microsoft PowerPoint 97/2000?		/2
Has the report been created using Microsoft Word 97/2000?		/2
	Sub-Total	/4
	TOTAL	/309