10 Information Software Technology

Software Design Portfolio

Formal Notification

**Due: Friday 30th May 2014**

**Weighting: 60% (of Semester 1)**

# Portfolio Description:

So far in this unit you have created 3 simple software applications and learned a number of programming concepts.

In this portfolio you will compile all of your learning into a single document.

Your portfolio will include:

1. A personal profile as per the scaffold below
2. An overview and evaluation of each of the three projects you completed
3. Your understanding of the following topics
   1. Types of Languages
   2. Variables
   3. GUI Concepts
   4. Data Types
   5. Data Coding
   6. Operators and Algorithms
   7. Sub programs and Languages
   8. Testing, error detection and correction

# Outcomes:

5.1.1 selects and justifies the application of appropriate software programs to a range of tasks

5.2.1  describes and applies problem-solving processes when creating solutions

5.2.2  designs, produces and evaluates appropriate solutions to a range of challenging problems

5.2.3  critically analyses decision-making processes in a range of information and software solutions.

5.4.1 analyses the effects of past, current and emerging information and software technologies on the individual and society

# Scaffolds:

## Scaffold 1: Videos

A number of videos have been provided to demonstrate how the portfolio can be constructed and formatted. Follow these carefully.

## Scaffold 2: Personal Profile

Create a one page personal profile that has an image of you and answers the questions:

* Who am I and what do I enjoy doing?
* What do I hope to do when I leave school?
* What did I think of the Software Design topic?

## Scaffold 3: Evaluations

Each evaluation will appear on a double page spread.

* On one page include an image or screen shots of the application being evaluated
* On the other page answer the questions:
  + What is the purpose of this product?
  + How did my product achieve this purpose??
  + What improvements could I make to this application?

## Scaffold 4: Demonstration of your understanding of the topic

* You should already have completed activities that cover these topics
* You should use diagrams and code samples to demonstrate your knowledge where possible
* You can improve on your previous work if you want.
* Try to ensure that your understanding of the topics follows the “Level Up” scaffolds.
* See the “Level up” Poster and videos

Portfolio Criteria and Marking Guide

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Elementary | Basic | Sound | Thorough | Extensive |
| **Task completion and use of scaffolds** | | | | |
| Has attempted to produce a portfolio. | Has created the basic structure of a portfolio as outlined in the scaffolds. Evaluations or some other elements may be missing. | Has created a portfolio that mimics the structure outlined in the portfolio scaffolds. All elements appear as required in the scaffolds. | Working beyond sound by the addition of some added visual or structural element that enhances the appeal of the document. | Working beyond thorough by adding extra meaningful content areas that add depth of understanding and/or greater scope for evaluation. |
| **Evaluations** | | | | |
| Has rated at least one project in some way. | Has used the basic structure provided in the scaffolds for evaluation. | Has evaluated the three applications according to the scaffold with some justification provided. | Working beyond sound by applying some sort of objective criteria for evaluation. | Working beyond thorough by providing various methods of the audience to access an understanding of the evaluation. |
| **Visual communication** | | | | |
| Has used visual elements to communicate. | Has made use of some basic structures for multiple page documents. | Has created a document that has a visual appeal equivalent to that provided in the scaffolds. | Working beyond sound by adding extra visual or structural elements that enhance the audiences’ ability to access the information in the document. | Working beyond thorough by by adding elements that take advantage of the electronic environment rather than a static for print document. |
| **Quality of content** | | | | |
| Content exists | The content is meaningful and attempts to address required components. | The content addresses all of the areas as per the scaffold. | The content has been constructed by making appropriate use of the Level Up scaffold, particularly in the evaluations. | The evaluations in particular make full use of the Level Up scaffold. |