



**INTERNATIONAL DIPLOMA
IN
COMPUTER STUDIES**



**MODULE:
VISUAL BASIC**

**ASSIGNMENT TITLE:
DOCUMENTS**

DECEMBER 2009

Important Notes:

- ❖ Please refer to the Assignment Presentation Requirements for advice on how to set out your assignment. These can be found on the NCC Education *Campus*. Scroll down the left hand side of the screen until you reach Personal Support. Click on this, and then on Policies and Advice. You will find the Assignment Presentation Requirements under the Advice section.
- ❖ You must familiarise yourself with the NCC Education Academic Dishonesty and Plagiarism Policy and ensure that you acknowledge all the sources which you use in your work. The policy is available on *Campus*. Follow the instructions above, but click on Policies rather than Advice.
- ❖ You must complete the ‘**Statement and Confirmation of Own Work**’. The form is available on the Policies section of *Campus*. Scroll down the left hand side until you reach Personal Support. Click on this and then click on Policies and Advice.
- ❖ Please make a note of the recommended word count. You could lose marks if you write 10% more or less than this.
- ❖ You must submit a paper copy and digital copy (on disk or similarly acceptable medium). Media containing viruses, or media which cannot be run directly, will result in a fail grade being awarded for this module.
- ❖ All electronic media will be checked for plagiarism.

Marker's comments:

Moderator's comments:

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Moderated

Final

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Introduction

There are a growing number of amateur genealogists searching for historical documents that would assist in tracing their ancestors.

This process inevitably leads to a large number of scanned documents.

One way of storing these documents on a computer system is to have each in a separate folder thereby giving each document a unique path by which it could be retrieved.

The existence and location of a document could then be recorded in a simple serial file of records. Each record in this file would include and reference number of the scanned document, a short abstract of the document and the path where the document is stored.

The purpose of this assignment is to produce a piece of software that would:

- Set up the serial file as indicated above.
- Provide a means to maintain this file.
- Provide a user interface to this file that would enable the user to access the desired stored scanned document.
Once the scanned document is retrieved, it should be displayed on the user interface via a suitable scrollable screen control.
- Provide a history of which scanned files have been viewed. This would involve the creation and updating of a 'history' file. There would be a need for the user to clear the 'history' file.
- Provide a means by which the user can add comments about the document, these comments being accumulated in a suitable field of the record.

Although the recommended textbook gives adequate coverage of the fundamentals of VB 2005 any particular assignment may require candidates to investigate other aspects of the language by using the Help facility provided by the Integrated Development Environment of VB 2005.

Aim

To produce robust software that meets the requirements detailed in the Introduction.

Task 1 – 5 Marks

To allow testing of your system as it develops:

Produce a small number of scanned documents and store each as a separate image file.

Give each document a unique reference number.

Construct a short abstract of each document.

Task 2 – 10 Marks

Design a suitable record structure for storing, as a serial file:

- The data required to retrieve each stored document.
- The means to optionally add comments.

Task 3 – 25 Marks

Design a user interface for retrieving and displaying a selected document.

The associated abstract should be also displayed.

The user interface should include:

- A means of selecting a document by Reference Number or Title or part of its Title or by key words in the abstract.
- A forward and back pair of buttons for navigating previously selected documents.
- The means to optionally add comments.
- The means to allow an authorised person to maintain the file.

The designs of all the required algorithms are required as part of this Task.

Task 4 – 30 Marks

Implement and test the designs detailed in Tasks 2 and 3.

This will involve the initial population of the file using the outcomes of Task 1.

Task 5 – 15 Marks

Design, implement and test the ‘history’ file including a suitable user interface.

Task 6 – 10 Marks

Carry out complete system testing.

Evidence of this system testing must include suitable screen shots.

Task 7 – 5 Marks

Produce a publishable working copy of a compiled version of the completed assignment together with some installation notes. The installation notes should include the system requirements.

This publishable copy, that includes a setup file, should be on an appropriate medium (zip disk, CD-ROM, DVD etc.).

Guidance

The assessment of your project will to a large extent depend upon the quality of the documentation that you have produced. Thus, for each stage of the development of software:

- Give a detailed design including, where appropriate, the design of any algorithms.
- Build in error handling to involve meaningful messages that would ease any future maintenance of the software.
- Annotate all implementation.
- Design a testing strategy.
- Justify your choice of suitable comprehensive test data.
- Show evidence of testing.
- Where appropriate, detail any major remedial action that you have taken in the light of the testing process.

Submission Requirements

A word-processed document incorporating the full documentation of each of the SEVEN Tasks detailed above. The document should be submitted both in paper form and digital form on a disk.

Refer to the Guidance Notes above when producing your final documentation.

Note the requirement in Task 7 to submit a publishable copy of the compiled system together with a test text file.

Warning: All media must be virus free!

Media containing viruses, or media which cannot be run directly, will result in a FAIL grade being awarded for this module.

**You must read and understand NCC Education's policy on 'Academic Dishonesty and Plagiarism'.
You must complete the 'Statement and Confirmation of Own Work' form and attach the completed form to
your assignment.**