UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International Diploma in ICT Advanced Level

Scheme of Work

5206 Website Programming Optional Module





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Introduction

This optional module is about creating a form for use on the Internet, which is to be used for gathering, storing, displaying and outputting user information.

What is assessed in this module?

- design and creation of a data input form
- data validation
- storage of data
- extraction of stored data
- display of extracted data
- saving and printing of document
- saving and printing of source code

Tutor preparation required to Deliver this Module

Provision of:

- web server facilities
- database access
- a web browser
- HTML and script editor/s
- appropriate documentation from 'General Principles and Procedures' below

Underpinning Knowledge

- · reasons for using server side scripting
- differences between client-side scripting and server-side scripting
- knowledge of HTML
- database creation
- extraction of data from a database

General Principles and Procedures

In preparation for this module you could produce notes on the following topics:

- creating forms using HTML
- commonly used form elements
- server side and client side scripting
- · the concept of strings, and using scripting with string functions
- the use of server side scripting to
 - display data from an input form
 - store data from an input form in a database
 - retrieve data from a database
 - display retrieved data in a web page
 - validate strings
 - validate numbers

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Scheme of Work

Assessment Objectives	Performance Criteria	Classroom Ideas	Resources	Notes				
Website Programming								
Session Plan One								
 create data entry form display data 	1.1.1 1.1.2 1.1.3 1.1.4 1.1.5 2.3.2	 create a very basic input form as specified use server-side scripting to extract the input data and display it create a page on which to display the data create a form which includes a list box, option buttons, check boxes display data from form on a separate page, accessed by clicking on the submit button 	 web server, script editor, web browser documentation for exercise 1 	 a very simple form could be created to collect a person's name, and then display it on another page when the user clicks on the submit button. A reset button could also be included provide guidance on commonly used form elements exercise 1 could be used - additional form elements could be added to produce a simple online questionnaire 				
Session Plan Two								
 store data extract data display data store data save and print document 	3.1.1 2.2.1 2.2.2 2.3.2 4.1.1 4.1.2	 create a database to store information from an input form extract the specified data, and display in a web page save and print the output page, and annotated source code and script 	 web server, script editor, web browser create a database in which to store form data ensure that the database is accessible for data storage and retrieval instructions for saving and printing 	 the activity could be continued from session plan one, and the data from the input form could be stored in the database, then displayed in a simple web report in HTML format 				

Assessment Objectives	Performance Criteria	Classroom Ideas	Resources	Notes
Session Plan Three create data entry form 	1.1.1 2.1.1	 create input form use scripting to validate 	web server, script editor, web browser	 create a data entry form which should include string data which can be
 validate data display data save and print document 	2.1.2 2.3.1 4.1.1 4.1.2	 string and numeric data to be input create an error page, and a confirmation page annotate source code and script as specified save and print 	 string and numeric data for validation checks instructions for annotation of source code and script instructions for saving and printing 	 manipulated using string functions, and checked for validity include numeric data for validation checks provide guidance on server-side scripting functions for working with strings, and how to perform validation
Session Plan Four		,		of strings and numbers
 create data entry form validate data extract data as specified display data store data save and print document 	1.1.1 1.1.5 2.1.1 2.2.2 2.2.1 2.2.2 2.3.1 2.3.2 3.1.1 4.1.1 4.1.2	 create a guest book use scripting to validate string and numeric data to be input create a database for storage of input data retrieve and display specified data create an error page, a confirmation page and a summary page save and print 	 web server, script editor, web browser documentation for exercise 2 instructions for annotation of source code and script instructions for saving and printing 	 exercise 2 could be used ideas for a guest book could be acquired by searching the internet, and comparing designs currently in use
undertake Advanced Website Programming Module Specimen paper	All	use for assessment of student	 specimen assignment assignment resources 	 provide necessary documentation and resources as required by the specimen assignment

Assessment Objectives	Performance Criteria	Classroom Ideas	Resources	Notes			
Session Plan Six							
		debrief	marked papers, for				
		 further practice 	return to each student				
Session Plan Seven							
undertake		Advanced Website					
Advanced		Programming					
Website		Assessment					
Programming							
Assessment							