## CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge Career Award in Information and Communications Technology
Advanced Level

# **WEBSITE PROGRAMMING**

5206/A

Optional Module: Practical Assessment

2003

1 hour

No Additional Materials are required.

### **READ THESE INSTRUCTIONS FIRST**

Make sure that your name, Centre number and candidate number are shown on each printout that you are asked to produce.

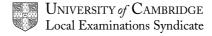
Carry out **every** instruction in each task.

Tasks are numbered on the left hand side of the page, so that you can see what to do, step by step. On the right hand side of the page for each task you will find a box which you can tick  $(\checkmark)$  when you have completed the task; this checklist will help you to track your progress through the assessment.

Before each printout you should proof-read the document to make sure that you have followed all instructions correctly.

At the end of the assessment put all your printouts into the Assessment Record Folder.

This document consists of 4 printed pages.



You work for Hothouse Design and are developing a system for the Inuit Gallery which will allow the gallery to enter details of the sculptures for sale or which have previously been sold.

	ne file <b>AWA03SCU.CSV</b> from othouse-design.co.uk/2003		our own work area.	<b>✓</b>
	ole in a database suitable for SCU.CSV into this table. The ar	•		
	<ul><li>Artist, Description and</li><li>Material choice as optio</li></ul>	Price as simple	e text input boxes	
•	Sold? as a check box Region as a list box Save as a submit button	, ,		
The form addata to a data	ction should open a page of tabase.	or script which	can validate and save	e the
Price:	the information below:			
Material: Region	Arctic Bay Clyde River Cape Dorset Lake Harbour	one O	Sold?	

			✓	
4	checks:	ipt which processes the data. It should make the following cription < 20 characters		2.1.1 2.1.2
	price is nume			
		ese checks fails, the script should return a page to the browser the data entered and the error message <b>Data is not valid</b>		2.3.1
5		o errors, then write code which will store the data as a new database you created.		3.1.1
	In the sold fiel In the region f	I field store 1 if Steatite is chosen or 2 if Bone is chosen.  d store <b>yes</b> if the box is checked or <b>no</b> if it is not checked.  ield store the region name as the full string (e.g. <b>Arctic Bay</b> ).  escription and price fields store the text as entered.		
	Write a page been saved.	for the browser which shows the data and says Your data has		
6	Use your web	form to enter data for the following sculpture:		3.1.1
	Artist: Description: Price: Material: Sold: Region:	SAQU Manomie Owl in Flight 295 Steatite No Lake Harbour		
	Click Save an	d print the page which appears.		
7	Use your web	form to enter data for the following sculpture:		3.1.1
	Artist: Description: Price: Material: Sold: Region:	IQALUK Josie Bear and Face Spirits 450 Bone Yes Cape Dorset		
	Click Save an	d print the page which appears.		
8	Create a web page which selects records from the table in your database for all the sculptures from <b>Lake Harbour</b> and shows the <i>description, artist, price</i> and <i>region</i> . Open this page and print it.			2.2.1
				2.2.2
9	Print out the p	page created at step 3 showing the HTML.		4.1.1

5206/A ICT (Option) 2003 [Turn over

- Print out the page(s) and scripts which you used to validate and save the data showing the HTML and code. On your printout highlight those portions of the code which:

  4.1.2
  - check the length of description
  - check price is numeric
  - write data to the database
  - write the confirmation page
  - write the error page.

(This highlighting may be done after the 1 hour allowed for the paper.)

## CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge Career Award in Information and Communications Technology
Advanced Level

# **WEBSITE PROGRAMMING**

5206/B

Optional Module: Practical Assessment

2003

1 hour

No Additional Materials are required.

### **READ THESE INSTRUCTIONS FIRST**

Make sure that your name, Centre number and candidate number are shown on each printout that you are asked to produce.

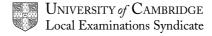
Carry out **every** instruction in each task.

Tasks are numbered on the left hand side of the page, so that you can see what to do, step by step. On the right hand side of the page for each task you will find a box which you can tick  $(\checkmark)$  when you have completed the task; this checklist will help you to track your progress through the assessment.

Before each printout you should proof-read the document to make sure that you have followed all instructions correctly.

At the end of the assessment put all your printouts into the Assessment Record Folder.

This document consists of 4 printed pages.



You work in the stationery department at the University of Tawara Beach and are developing a system which will allow staff to order stationery on line. You are preparing some web pages for this purpose.

1	Download the file <b>AWB03STA.CSV</b> from <a href="http://www.hothouse-design.co.uk/2003webprogb">http://www.hothouse-design.co.uk/2003webprogb</a> to your own work area.	<b>✓</b>	
2	Create a table in a database suitable for use with your web server and import the file AWB03STA.CSV into this table. The fields are description, code, category, price, supplier and special		
3	On a new web page create a form which looks like the diagram below, with:  • Description, Code and Price as simple text input boxes • Category choice as option (radio) buttons • Special Order? as a check box • Supplier as a list box • Save as a submit button  The form action should open a page or script which can validate and save the data to a database.		1.1.1 1.1.2 1.1.3 1.1.4 1.1.5
	University of Tawara Beach Stationery Office  Please fill in the information below:  Description:  Code:		
	Price:  Category: Consumable O Non-consumable O Special Order?  Supplier Dudley  XMA  CBC  Wetherbys		
	Save		

			✓	
4	Create a script whichecks:	ch processes the data. It should make the following		2.1.1
	Length of description	< 30 characters		2.1.2
		cks fails, the script should return a page to the browser a entered and the error message <b>Data is not valid</b>		2.3.1
5	If there are no error record in the databas	rs, then write code which will store the data as a new se you created.		3.1.1
	is chosen.	store 1 if consumable is chosen or 2 if non-consumable		
	In the supplier field st	ore <b>Y</b> if the box is checked or <b>N</b> if it is not checked. tore the supplier as the full string (e.g. <b>Dudley</b> ). de and price fields store the text as entered.		
	Write a page for the been saved.	browser which shows the data and says Your data has		
6	Use your web form to	enter data for the following item:		3.1.1
	Description: Code: Price: Category: Special Order?:	Ball Pen Blue 9015 0.25 Consumable No		
	Special Order?: Supplier:	Dudley		
	Click Save and print	the page which appears.		
7	Use your web form to	enter data for the following item:		3.1.1
	Description: Code: Price: Category: Special Order?:	Fineliner Red 1A25 1.50 Consumable No		
	Supplier:	Dudley		
	•	the page which appears.		
8		which selects records from the table in your database for <b>Dudley</b> which are <b>not</b> special order and shows the		2.2.1
	description, code, price and supplier. Open this page and print it.			2.2.2
9	Print out the page cre	eated at step 3 showing the HTML.		4.1.1

5206/B ICT (Option) 2003 [Turn over

- Print out the page(s) and scripts which you used to validate and save the data showing the HTML and code. On your printout highlight those sections of the code which:

  4.1.2
  - check the length of description
  - check code is numeric
  - write data to the database
  - write the confirmation page
  - write the error page.

(This highlighting may be done after the 1 hour allowed for the paper.)

## CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge Career Award in Information and Communications Technology
Advanced Level

# **WEBSITE PROGRAMMING**

5206/C

Optional Module: Practical Assessment

2003

1 hour

No Additional Materials are required.

### **READ THESE INSTRUCTIONS FIRST**

Make sure that your name, Centre number and candidate number are shown on each printout that you are asked to produce.

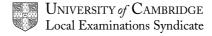
Carry out **every** instruction in each task.

Tasks are numbered on the left hand side of the page, so that you can see what to do, step by step. On the right hand side of the page for each task you will find a box which you can tick  $(\checkmark)$  when you have completed the task; this checklist will help you to track your progress through the assessment.

Before each printout you should proof-read the document to make sure that you have followed all instructions correctly.

At the end of the assessment put all your printouts into the Assessment Record Folder.

This document consists of 3 printed pages.



You work in the admissions department at the University of Tawara Beach and are developing a system which will allow staff to enter data about interviews and generate lists of interview information.

1	Download the file <b>AWC03APP.CSV</b> from <a href="http://www.hothouse-design.co.uk/2003webprogc">http://www.hothouse-design.co.uk/2003webprogc</a> to your own work area.				
2	Create a table in a database suitable for use with your web server and import the file <b>AWC03APP.CSV</b> into this table. The fields are <i>StudentNo</i> , <i>QualCode</i> , <i>InterviewTime</i> (as hhmm), <i>InterviewDate</i> (as ddmmyy), <i>AcadYear</i> (as yyyy) and <i>Confirmed</i> .				
3	On a new web page create a form which looks like the diagram below, with:	1.1.1			
	<ul> <li>Student Number, Interview Date and Interview Time as simple text input boxes</li> <li>Academic Year choice as option (radio) buttons</li> <li>Confirmed? as a check box</li> <li>Qualification as a list box</li> <li>Save as a submit button</li> </ul>	1.1.2 1.1.3 1.1.4 1.1.5			
	The form action should open a page or script which can validate and save the data to a database.				
	University of Tawara Bay - School of Physics  Please fill in the information below:				
	Student Number:				
	Interview Date: (ddmmyy)				
	Interview Time:				
	Academic Year: 2003/4 O 2004/5 O Confirmed?				
	Qualification  Physics Physics with Maths Physics with Electronics Physics with Computing  Save				
ļ	Create a script which processes the data. It should make the following checks:				
	InterviewDate is 6 characters long				
	StudentNo is numeric and starts with 1, 2 or 3 If either of these checks fails, the script should return a page to the browser which shows the data entered and the error message <b>Data is not valid</b>	2.3.1			

5	If there are no errors, then record in the database you o	write code which will store the data as a new created.		3.1.1
	2004/5 is chosen.	2003/2004 if 2003/4 is chosen or 2004/2005 if the Yes if the box is checked or No if it is not		
	In the QualCode field store CDAD respectively for the 4	e the qualification as <b>CDAA</b> , <b>CDAB</b> , <b>CDAC</b> or qualifications shown on the form.		
	Write a page for the browse been saved.	er which shows the data and says <b>Your data has</b>		
6	Use your web form to enter	data for the following item:		3.1.1
	Student Number: Interview Date: Interview Time: Academic Year: Confirmed?: Qualification:	21224 01Feb03 1000 2003/2004 No Physics with Electronics		
	Click Save and print the pag	e which appears.		
7	Use your web form to enter	data for the following item:		3.1.1
	Student Number: Interview Date: Interview Time: Academic Year: Confirmed?: Qualification:	48115 29Jan03 1400 2003/2004 No Physics with Computing		
	Click Save and print the pag	e which appears.		
8	for all the applicants for aca beginning <b>CDA</b> and show	elects all records from the table in your database demic year <b>2003/2004</b> taking courses with codes ws the <i>StudentNo</i> , <i>QualCode</i> , <i>InterviewDate</i> , ed. Open this page and print it.		2.2.1 2.2.2
9	Print out the page created at	t step 3 showing the HTML.		4.1.1
10	Print out the page(s) and scripts which you used to validate and save the data showing the HTML and code. On your printout highlight the sections of code which:			4.1.2
	<ul> <li>check the length of <i>InterviewDate</i></li> <li>check <i>StudentNo</i> is numeric and begins with 1, 2 or 3</li> <li>write data to the database</li> <li>write the confirmation page</li> <li>write the error page.</li> </ul>			
	(This highlighting may be do	one after the 1 hour allowed for the paper )		