UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International Diploma in ICT
Advanced Level

WEBSITE PROGRAMMING **5206/A**

Optional Module: Practical Assessment

2004

No Additional Materials are required

1 hour
and 15 minutes reading time

READ THESE INSTRUCTIONS FIRST

Candidates are permitted **15 minutes** reading time before attempting the paper.

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 (✓) 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 assignment put **all** your printouts into the Assessment Record Folder.

This document consists of **3** printed pages.

You work for the Hotel Stella at Tawara Beach and you are going to create a web form which can be used by customers to request a brochure. You will also design web pages which can be used to report from the database created by this web form.

		✓	
1	Download the file **AWP4AREQ.CSV** from http://www.hothouse-design.co.uk/2004webproga to your own work area.	☐	
2	Create a table in a database suitable for use with your web server and import the file **AWP4AREQ.CSV** into this table. The fields are *name, email, age, regular* and *holtype*	☐	**3.1.1**
3	On a new web page create a form which looks like the diagram below, with: • **Name** and **email address** as simple text input boxes • **Age** choice as option (radio) buttons • **Receive regular mail?** as a check box • **Holiday type** 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**

Hotel Stella

Please fill in the information below:

Name:

email address:

Age: 18-30 **O** Over 30 **O** Tick this box to receive regular e-mail ☐

Holiday Type

- Old time Dancing
- Gourmet Cooking
- Watercolour Painting
- Water Sports

Save

		✓	
4	Create a script which processes the data. It should make the following checks: *email* contains an @ symbol *email* contains a full stop (.) somewhere after the @ sign If either of these checks fails, the script should return a page to the browser which shows the data entered and the error message **Data is not valid**	☐	**2.1.1** **2.1.2** **2.3.1**
5	If there are no errors, then write code which will store the data as a new record in the database you created. In the *age* field store **1** if 18-30 is chosen or **2** if over 30 is chosen. In the *regular* field store **yes** if the box is checked or **no** if it is not checked. In the *holtype* field store the holiday type as the full string (e.g. Water Sports). In the *name*, and *email* fields store the text as entered. Write a page for the browser which shows the data and says **Your data has been saved**.	☐	**3.1.1**
6	Use your web form to enter data for the following request: Name: **John Smith** email: **johnsmith82@hotmail.com.ta** Age: **18-30** Regular email: **Yes** Type: **Water Sports** Click *Save* and print the page which appears.	☐	**3.1.2**
7	Use your web form to enter data for the following request: Name: **Alan Jones** email: **alan_j.yahoo.co.ta** Age: **30+** Regular email: **No** Type: **Gourmet Cooking** Click *Save* and print the page which appears.	☐	**3.1.2**
8	Create a web page which selects all brochure requests for **Water Sports** and shows the *Name*, *email*, *age* and *regular*. Open this page and print it.	☐	**2.2.1** **2.2.2** **2.3.2**
9	Print out the page created at 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 those portions of the code which: • check that the *email* address contains an @ sign • check that the *email* address contains a full stop (.) after the @ sign • 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.)*	☐	**4.1.2**

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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 (✓) when you have completed the task; this checklist will help you to track your progress through the assessment.

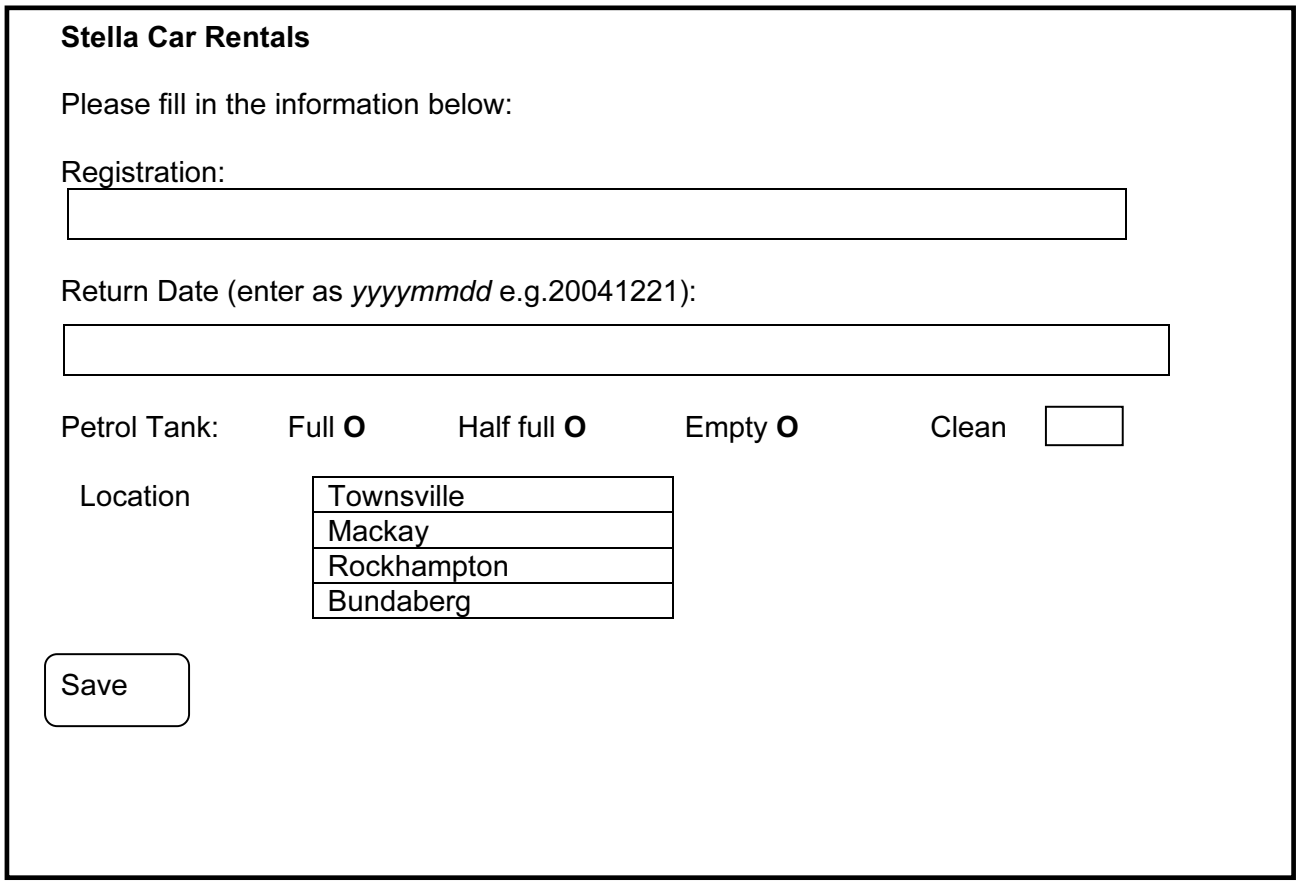
Before each printout you should proof-read the document to make sure that you have followed all instructions correctly.

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

This document consists of **3** printed pages.

You work for Stella Car Rental and you are going to create a web form which can be used by staff to log the return of a car. You will also design web pages which can be used to report from the database created by this web form.

		✓	
1	Download the file **AWPB4VEH.CSV** from http://www.hothouse-design.co.uk/2004webprogb to your own work area.	☐	
2	Create a table in a database suitable for use with your web server and import the file **AWPB4VEH.CSV** into this table. The fields are *registration, retdate, location, petrol* and *clean*	☐	**3.1.1**
3	On a new web page create a form which looks like the diagram below, with:	☐	**1.1.1**
	• **Registration** and **Return date** as simple text input boxes		**1.1.2**
	• **Petrol Tank** choice as option (radio) buttons		**1.1.3**
	• **Clean?** as a check box		**1.1.4**
	• **Location** as a list box		**1.1.5**
	• **Save** as a submit button		
	The form action should open a page or script which can validate and save the data to a database.		



		✓	
4	Create a script which processes the data. It should make the following checks: *retdate* is 8 characters long *registration* starts with a letter If either of these checks fails, the script should return a page to the browser which shows the data entered and the error message **Data is not valid**	☐	**2.1.1** **2.1.2** **2.3.1**
5	If there are no errors, then write code which will store the data as a new record in the database you created. In the *petrol* field store **0** if empty is chosen; **1** if half-full or **2** if full is chosen. In the *clean* field store **yes** if the box is checked or **no** if it is not checked. In the *location* field store the location name as the full string (e.g.Mackay). In the *registration*, and *retdate* fields store the text as entered. Write a page for the browser which shows the data and says **Your data has been saved**.	☐	**3.1.1**
6	Use your web form to enter data for the following car: Registration: **B12857** Return Date: **20040102** Petrol: **Half full** Clean: **No** Location: **Mackay** Click *Save* and print the page which appears.	☐	**3.1.2**
7	Use your web form to enter data for the following request: Registration: **A98712** Return Date: **1Feb04** Petrol: **Full** Clean: **Yes** Location: **Bundaberg** Click *Save* and print the page which appears.	☐	**3.1.2**
8	Create a web page which selects all cars returned to **Mackay** which were not clean. For each car show the *Registration*, *Retdate* and *Petrol*. Open this page and print it.	☐	**2.2.1** **2.2.2** **2.3.2**
9	Print out the page created at 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 those portions of the code which: • check the length of the *retdate* • check *registration* starts with a letter • 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.)*	☐	**4.1.2**