# UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS Cambridge International Diploma in ICT Advanced Level

### **WEBSITE PROGRAMMING**

5206/A

Optional Module: Practical Assessment

2005

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.

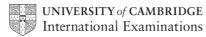
Carry out every instruction in each task.

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  $(\checkmark)$  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 assignment put all your printouts into the Assessment Record Folder.

This document consists of 4 printed pages.



[Turn over

You work for the Transport Department of the City of Tawara Beach and you are going to create a web form which can be used by residents to register for a reduction in the congestion charge they have to pay. You will also design web pages which can be used to report from the database created by this web form.

|          | ownload the file <b>AWPA5CAR.CSV</b> from tp://www.hothouse-design.co.uk/2005webproga to your own work area.   | ✓ |                  |
|----------|--|---|------------------|
| file     | reate a table in a database suitable for use with your web server and import the e AWPA5CAR.CSV into this table. The fields are registration, email, enginesize, PG and area   |   | 3                |
| Or       | <ul> <li>a new web page create a form which looks like the diagram below, with:</li> <li>Car registration and email address as simple text input boxes</li> <li>Engine Size choice as option (radio) buttons</li> <li>Tick this box if your car runs on LPG as a check box</li> <li>Area of city as a list box</li> <li>Save as a submit button</li> </ul> |   | 1<br>1<br>1<br>1 |
|          | ne form action should open a page or script which can validate and save the state to a database.   |   |                  |
| ΡI       | ity of Tawara Beach Transport Department lease fill in the information below:  |   |                  |
| PI<br>Ca |  |   |                  |

| 4 | checks: registration sta The second, the If either of the  | ipt which processes the data. It should make the following arts with letter A, M or P hird and fourth characters of <i>registration</i> are numeric. ese checks fails, the script should return a page to the browser he data entered and the error message <b>Data is not valid</b> |  | 2.1.1<br>2.1.2<br>2.3.1 |  |
|---|--|--|--|-------------------------|--|
| 5 |  | o errors, then write code which will store the data as a new latabase you created.   |  | 3.1.2                   |  |
|   | In the <i>engine</i> field store <b>1</b> if less than 1000cc is chosen or <b>2</b> if over 1000cc is chosen.  In the <i>LPG</i> field, store <b>yes</b> if the box is checked or <b>no</b> if it is not checked. In the <i>area</i> field, store the area as the full string.  In the <i>registration</i> and <i>email</i> fields, store the text as entered. |  |  |                         |  |
|   | Write a page to been saved   | for the browser which shows the data and says <b>Your data has</b>   |  |                         |  |
| 6 | Use your web   | form to enter data for the following request:  |  | 3.1.2<br>4.1.1          |  |
|   | Registration:<br>email:<br>Engine Size:<br>LPG:<br>Area:   | M123BC<br>ericjones82@mailbox.com.ta<br>less than 1000cc<br>Yes<br>Blackall  |  | 7.1.1                   |  |
|   | Click Save and   | d print the page which appears.  |  |                         |  |
| 7 | Use your web   | form to enter data for the following request:  |  | 3.1.2<br>4.1.1          |  |
|   | Registration:<br>email:<br>Engine Size:<br>LPG:<br>Area:   | MPQ123<br>david.angel@postbox.ta<br>less than 1000cc<br>Yes<br>Tambo   |  | 4.1.1                   |  |
|   | Click Save and print the page which appears.   |  |  |                         |  |
| 8 | have an engir  | page which selects all data for vehicles which use <b>LPG</b> and ne size less than 1000cc. For each vehicle it should show the email, enginesize and area   |  | 2.2.1<br>2.2.2<br>2.3.2 |  |
|   | Open this page and print it.   |  |  |                         |  |
| 9 | Print out the p  | age created at step 3 showing the HTML.  |  | 4.1.1                   |  |

Print out the page(s), scripts or evidence of other methods which you used in 10 order to validate and save the data showing the HTML and code.

On your printout highlight those portions of the code which:

- check that the registration starts with A, M or P
- check that the registration contains digits at positions 2 and 3
- 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.)

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### WEBSITE PROGRAMMING

5206/B

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2005

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1 hour and 15 minutes reading time

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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.

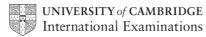
Carry out every instruction in each task.

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  $(\checkmark)$  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 assignment put **all** your printouts into the Assessment Record Folder.

This document consists of 4 printed pages.



[Turn over

You work for the transport department in the City of Tawara Beach. The city is trying to encourage car drivers to share their cars with other commuters. You are going to create a web form which will be used as the input for a database of people who will share rides. You will also design web pages which can be used to report results from this search.

|            | he file <b>AWPB5RID.CSV</b> from nothouse-design.co.uk/2005webprogb to your own work area.  |        |       |
|------------|---|--------|-------|
|            | ble in a database suitable for use with your web server and import the <b>GRID.CSV</b> into this table. The fields are <i>Name</i> , <i>phone</i> , <i>ride</i> , <i>charging</i>                                       |        | 3     |
| On a new w | <ul> <li>Name and Contact phone as simple text input boxes</li> <li>Ride choice as option (radio) buttons</li> <li>Charging? as a check box</li> <li>Location as a list box</li> <li>Save as a submit button</li> </ul> |        | 1 1 1 |
|            | ach Transport – Ride Sharing<br>either offer a lift or want a lift, then complete the form  |        |       |
|            |   |        |       |
| Contact ph | one number (e.g. (912) 134 8817 – please include the area code and spa  | aces): |       |

| 4 | checks: phone is 14 checks If any of these   | ipt which processes the data. It should make the following naracters long and has brackets at position 1 and 5 e checks fails, the script should return a page to the browser the data entered and the error message <b>Data is not valid</b> |  | 2.1.1<br>2.1.2<br>2.3.1 |
|---|--|---|--|-------------------------|
| 5 |  | o errors, then write code which will store the data as a new latabase you created.  |  | 3.1.2                   |
|   | In the <i>ride</i> field, store <b>0</b> if offering is chosen and <b>1</b> if wanting is chosen. In the <i>charging</i> field, store <b>yes</b> if the box is checked or <b>no</b> if it is not checked. In the <i>location</i> field, store the location name as the full string (e.g. Mackay). In the <i>name</i> and <i>phone</i> fields, store the text as entered. |   |  |                         |
|   | Write a page to 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 person:  |   |  | 3.1.2<br>4.1.1          |
|   | Name:<br>Phone:<br>Ride:<br>Charging:<br>Location:   | Johnny Hall<br>(187) 219 8876<br>Offering<br>No<br>Mackay   |  | 4.1.1                   |
|   | Click Save and   | d print the page which appears.   |  |                         |
| 7 | Use your web form to enter data for the following person:  |   |  | 3.1.2<br>4.1.1          |
|   | Name:<br>Phone:<br>Ride:<br>Charging:<br>Location:   | Blaine Harris<br>(50) 987 1342<br>Offering<br>No<br>Bundaberg   |  | 4.1.1                   |
|   | Click Save and print the page which appears.   |   |  |                         |
| 8 |  | page which selects all people offering a ride and not charging. son show the <i>Name</i> , <i>Phone</i> and <i>Location</i> . Open this page and  |  | 2.2.1<br>2.2.2<br>2.3.2 |
| 9 | Print out the page created at step 3 showing the HTML.   |   |  | 4.1.1                   |

Print out the page(s), scripts or evidence of other methods which you used in order to validate and save the data showing the HTML and code.

4.1.2

On your printout highlight those portions of the code which:

- check the length of phone
- check phone has a bracket at positions 1 and 5
- 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.)

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