CM0133: Internet Computing

Assessed Exercise 3

Hand Out Date: 9th November 2004
Hand In Date: 9AM, Tuesday 7th December 2004

The following exercises *will contribute* 60% to the assessed coursework part of this module (*i.e.* 24% of the total marks for this module)
All solutions must be submitted in appropriate Web-based and Hard Copy form (as indicated below) by *9AM Tuesday Dec 7th.* **You MUST hand in the hard copy in the 9AM Morning Lecture on that day**.
Note that the exact instructions below must be followed. Failure to do so will result in you losing marks (in some cases all marks) for the exercise.

Submission of Coursework

Coursework must be primarily submitted in electronic (Web-based) form. All solutions must be referenced from your **HOME PAGE** on the UNIX system.
Your must use your `project` *html and cgi-bin file space for this assignment*
You **must** submit as hardcopy an (A4) print out of your **HOME PAGE** together with the signed plagiarism statement. The URL to the **HOME PAGE** must be clearly indicated on this submission.
ONLY Coursework submitted with a signed plagiarism statement will be considered for marking.
Each exercise (except Ex.1) below must be given its own Web page and be clearly accessible from your **HOME PAGE** — Each solution page should have a *direct* link so that the HTML and Perl source code can be listed.
Marks will be awarded for good sensible Web page layout (including CGI output) and design as well as for programs that perform effectively.

Exercises

1. Create a home page that contains the following:

   - Your Name, the Postal Address of the Department and the URL of your home page.

   - An in-line image placed in the centre of the page — any picture may be used. Try to make it something personal.

   - A link to the University's Home Pages and a link to the Department's Home Page.

   - Links to at least 3 Web pages about your favorite movie or music stars.

   - Links to Web pages about the following computer topics:
     - Internet Protocols.

- PHP Programming.
- Web Page Design and Layout
- Links to your solutions to the problems below:

2. Write relevant HTML Web pages, and Perl, JavaScript and/or PHP scripts to produce a simple Web based currency converter.

   The converter should give the user the option to convert an amount to and from any of the following currencies: Euros, US Dollars and UK Pounds.

   - For example X Euros should be convertible to Dollars or Pounds. The user should be able to simply chose between any of the available currencies.
   - Similarly, X Dollars should be convertible to Euros or Pounds.
   - The option to convert between any of the currencies should be available.

   You should include, on the same page, the conversion rates used by the converter - along with the dates on which these rates applied.

3. Write relevant HTML Web pages and Perl or PHP scripts to view a catalogue of images (Gif or JPEG format) stored in an image subdirectory on your Web space. You should provide a simple means of selecting an image file and then, upon selection, the image will be displayed on a web page tegether with the chance to select another image.

   The listing of files should be **dynamic** — your CGI script should be able to provide a list of the current contents of the image directory at any given time. That is to say that if you add or delete items the list of files can be assembled *automatically* by the script with **no** hand editing by you.

   Some sample images are available for download from the URL:

   http://www.cs.cf.ac.uk/Dave/Internet/Images/.