

# Computer Programming

## *Perl Programming Assignment #1, 2008-9*

### Brief:

You are to write a CGI program in Perl which enables the a website to accept reservation input data from a client, verify that the data meets certain criteria and then displays output based on the input. The booking data will be saved to a central flat-file database.

### Summary:

The website will contain a common input form where the visitor can specify how long they intend staying, starting from when as well as payment details.

When the user clicks the submit button the CGI program checks that amongst other things:

1. No booking for more than 12 people may be made
2. Bookings may only be made for the following month
3. Bookings of children only are not acceptable.
4. Only VISA credit cards are accepted.
5. The card holders name should be potentially viable.
6. The credit card number should be potentially viable.
7. The card expiry date should be potentially viable.
8. The script calculates and displays the total fee that is payable.
9. The completed booking should be stored in the file ">> /home/public/hosteldatabase2009.dat"
10. Save each valid booking record as a series of fields (even if empty) separated by colons (:) as the delimiter
11. Separate each record in the database by an EOL
12. The first field in the record should be your username
13. Prepares an email to send to the person making the reservation

Faults will be flagged and handled appropriately; it is also envisaged that the email that would normally go to the organiser would be sent to you so that you can confirm the functioning of the system.

### Presentation:

Marks are awarded for attractive presentation both of the screen output and the source code. Code indentation and commenting are **vital**.

### Submission Mechanism:

By paper via the submission box in Room 15, and by e-mail (**the perl script only**). Include:

- Cover sheet ('My Own Work')
- Flow chart (Read the programming website for information).
- Source code (The perl program, printed)
- Sample data used (A copy of the sample email)
- Other screen capture(s) as required

Any other relevant supporting materials

### Due Date:

**20090213, 15:15, Friday**  
**(subject to on-line Calendar changes)**

NOTE: A common HTML input form is provided