

G64HLL 2009/2010 Session

Coursework 3 (30%)

Due 4th May 2010, 4:00pm, Demo 5th May 11:00-13:00, 10th May, 16:00 – 18:00, 12th May, 11:00-13:00

I. Introduction

In the 2nd and 3rd coursework, you will use PHP and MySQL to construct an online library system. Your system should include the following components:

- An admin page. This page will enable librarians to perform the following
 - Login (requires a librarian to enter user id and password).
 - Add/delete users.
 - Add/delete books.
 - Check user information, e.g., how many books a user has borrowed, details of the books, when they are due.
 - Check book stock, e.g., how many books are currently out, when they are due, how many copies of a title are still in the library, etc
 - (When requested) Issue books to users who are still eligible to borrow (you are free to set the conditions when a user will no longer be allowed to borrow more books, e.g., has taken the maximum number of books, there are books overdue, have not paid overdue penalty etc). This can be done manually or automatically, you are free to come up with your own solutions.
 - Email a user when there is book overdue or when a book is ready for collection.
- A user page. This page will enable a user to perform the following
 - Login (requires a user to enter user id and password).
 - Browse library collections, e.g., to search the library for a particular title
 - Request to borrow books if a book is in the library
 - Reserve a book when the required book is not in the library.
- A book database and a user database
 - The databases should be designed using MySQL. The records should contain appropriate information necessary to function.

II. Tasks

In the this part of the coursework, you will build on work done in coursework 2 and complete the full online library system, including the user page functions and connecting the PHP pages and the MySQL databases, to ensure the whole system function properly. You should also ensure to have no less than 50 book titles, 10 users, 3 librarians in the databases.

III. What to hand in

You should hand in **coursework 2 and coursework 3 together**, documents and files you should submit include

- A user manual of your full system (no more than 8 pages, font size 10 or larger, including all drawing and diagrams)
- A hard copy of all PHP and MySQL code (must be properly commented).
- Submit all source code through the School's CW system (Name your file using this format: your_cs_username_lastname_firstname_studentID)

IV. Demo

You should demo your system on 5th May, 11:00-13:00, 10th May, 16:00 – 18:00 or 12th May, 11:00-13:00 (a timetable will be issued near to the time). You should be prepared to answer questions. You will be allowed to demo your submitted code only.

V. Assessment

Coursework 2 and coursework 3 will be assessed at the same time. Assessment will be based on user manual (20%), correctness (40%), clearly explained and commented code (20%) and demo (20%).