

Assignment 3

You may work in pairs if you want for this assignment

Purpose

- To give you exposure to
 - creating a program that
 - connects to a database
 - writes, reads and updates the data in the database
 - writing the interface between a database and a user
 - creating a client/server program that runs on the internet, serves up a page that runs on the client side (the users browser) and also connects to a back end database on the server side (your virtual machine)

Instructions

Using the database you created for assignment 2 and your virtual machine, PHP and mysql, create a website on your machine that allows a private movie screening company to manage the viewing of it's movie screenings.

There will be two parts to the assignment:

Part 1: The Back End:

The staff who work at the private screening company (PSC) must be able to:

- add, delete and update movies and list all movies either by year or alphabetically. So your system must give the PSC staff a webpage(s) where the staff can enter all the data about new movies (id, title and year of release), and the genre(s) it is associated with and list all the movies. Your program should update the tables according to what the staff want to do.
- add, delete and modify the genre info. You can put all possible genres into checkboxes and then safely assume that no new genres will be added, modified or deleted but a movie might change the genres it is associated with, so that table has to be able to be modified.
- enter information about their rooms where they screen movies (add, delete and modify the room number and capacity).
- add, delete and modify information about the showings and list all the showings
- add, delete and modify information about the customers and list all the customer
- BONUS: (for 5% bonus marks) --> allow a user to add a movie poster image that is added when the movie is added (it will never be updated or added after the fact). The image should somehow be displayed. You can assume the image will be stored on the local machine and thus will need to be uploaded. Assume that all the poster images will be 240 pixels by 360 pixels.

Part 2: The Front End:

The staff who work at the ticket desk for PSC must be able to:

- select a customer and a showing and sell a ticket to the user. The ticket price will be up to the staff to pick (they can enter any number they want)
- allow a customer to give a rating to the showing they just saw (a number of stars between 1 and 5)
- allow a customer to see a list of the showings (movie name and year) based on:
 - a selected genre (give a warning if there are no seats left for a showing)
 - a range of dates (give a warning if there are no seats left for a showing)
 - a theatre that still has seats available

- a movie title (give a warning if there are no seats left for a showing)
- allow a customer to see all the movie titles and ratings for the movies he/she has viewed
- allow a customer to see his/her profile (all the info about the customer)
- see each genre and how much in ticket sales that genre has done
- see each genre and count how many movies there are in that genre'
- list all the movie titles had have an average rating of 4 or more stars.
- BONUS (included in the 5% above), - when the customer views a list of showings based on the movie title, display the movie poster (if one was uploaded) to the user.

It is a good habit to disconnect from a database once you have finished using it, make sure you program disconnects from the database.

Remember that PHP can get large and cluttered, your application will be marked partly on your structure and modularity, don't put everything in one file, try using PHP *includes* and separate files to break up the PHP code.

NOTE: you can not use any third party DAL frameworks that let you avoid writing SQL queries/statements. We want you get experience writing SQL with this assignment.

Handing in your assignment:

You are required to submit the following via Owl:

- In the Owl submission text box put: the URL for your working application so the cs3319 t.a. can try it out.
- In the Owl attach/upload: All files (.php and .html) used to create your application

Late Policy:

- 5% off for each day late, Saturday and Sunday count as one day.