CMPE 321 Assignment III

You are supposed to implement a hospital appointment system using PHP. We are going to have two user roles:

- Admin
- Patient

At the login step, depending on the user's role you should direct them to their respective home page. This home page will have hyperlinks to the actions a user can commit.

You should be doing session control on your pages to avoid unauthorized access.

Patients can

- Register
- Make an appointment for themselves
- Cancel an appointment of themselves
- Edit an appointment of themselves

Admins can

- Add / Remove / Edit a doctor
- Add / Remove / Edit branches

Administrators cannot register. They are defined on the back-end (via the DBMS).

A third type of entity, doctors, should be defined. Each doctor has a branch that he is certified to serve. Doctors are not 'users' and do not need to login to the system.

A patient should first select the branch, then a doctor in that branch while making an appointment.

Appointment times will be 5 minutes apart (e.g. 8:00, 8:05, 8:10). A patient cannot make an appointment with the same doctor at the same date and time with another user. Care for this for editing an appointment, too.

Stored Procedure

Apart from the aforesaid actions of the administrators, they can also view reports. These reports' data should be supplied by the SPs (stored procedure) defined on the database.

You are supposed to write two SPs, each taking the argument 'branch'. One SP should return all past appointments on that branch, the other one all future appointments. An argument value, 'ALL', should list the appointments of all branches. The argument to the SP should be supplied by the front-end, possibly via a drop-down list.

Trigger

You should also write a trigger on the doctors entity. If a doctor is removed from the system, all his future appointments should be canceled.

SQL Injection (BONUS)

If your front-end is protected against SQL injection, you will receive bonus points.