

CmpE 321 INTRODUCTION TO DATABASE SYSTEMS

Spring 2017 PROJECT 3

Hospital Appointment System

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INTRODUCTION

This is a basic implementation of a hospital appointment system.

There is a main structure called Hospital and it contains 4 tables:

appointments, Branches, Doctors and users.

Appointments contain all the information to define an appointment:

date, time, doctor and patient. Also an id of the appointment too exists.

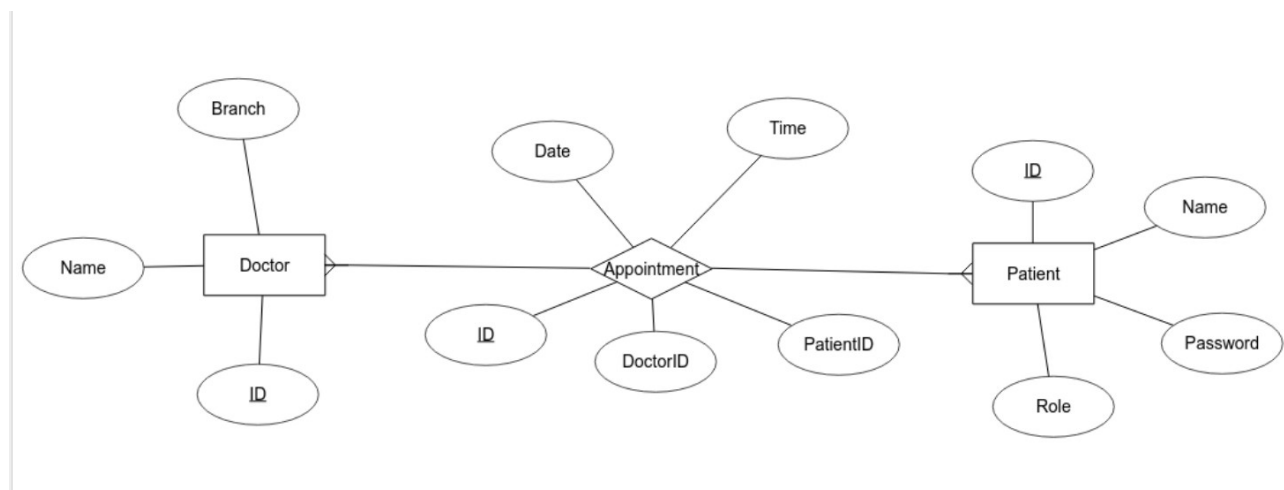
Branches is essentially the list of branches.

Doctors holds doctors and their respective branches.

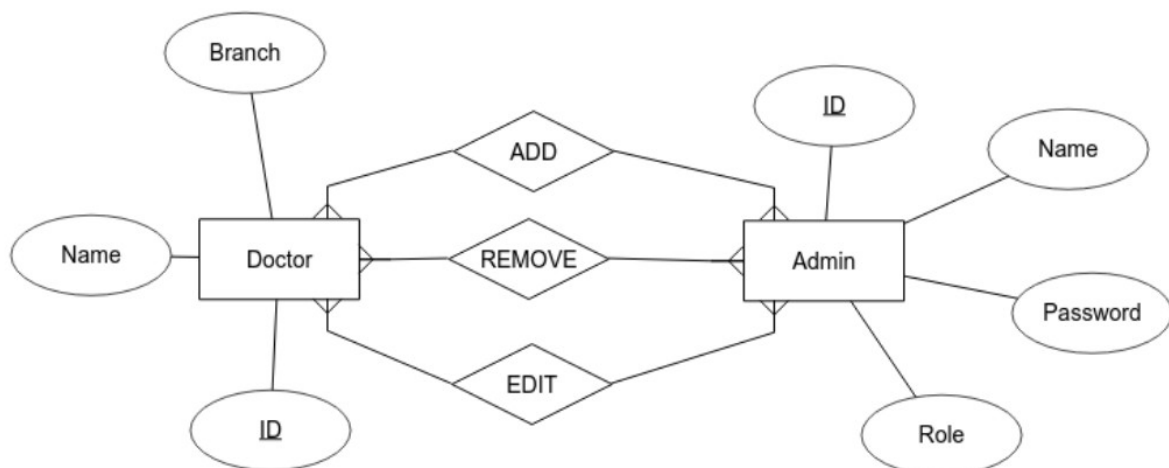
users holds two type of users:

1. type Admins: can only be defined on the back end.
2. type patients: can register, regular users.

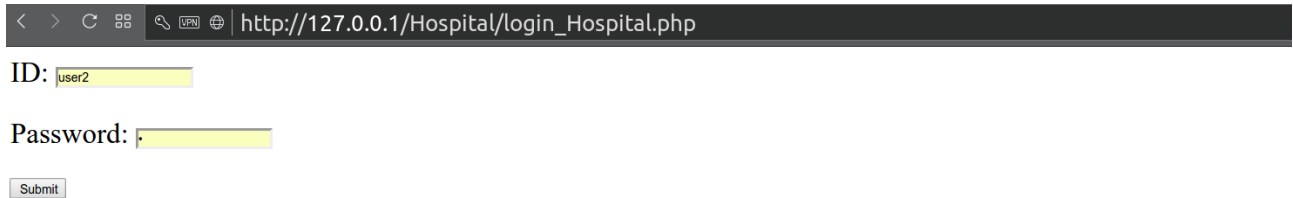
ER diagram: doctor - patient



ER diagram: doctor - admin



Everything starts with the login page.

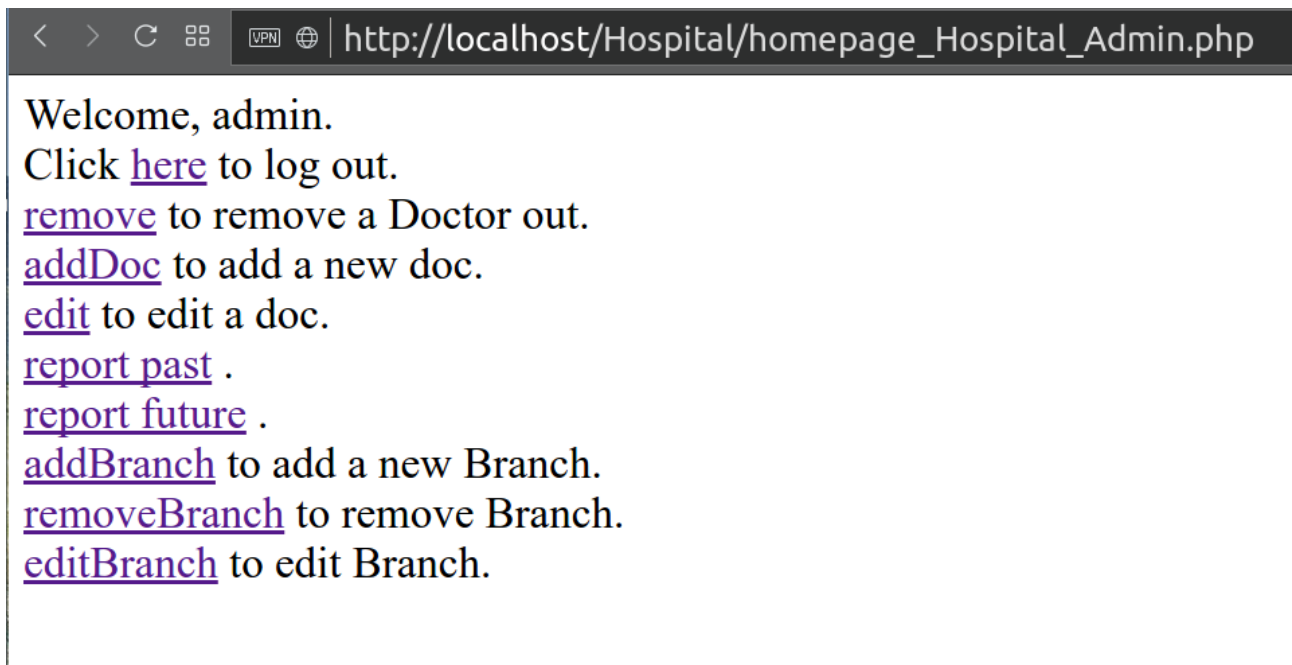


Browser address bar: http://127.0.0.1/Hospital/login_Hospital.php

ID:

Password:

Then user redirect to his home page:



Browser address bar: http://localhost/Hospital/homepage_Hospital_Admin.php

Welcome, admin.

Click [here](#) to log out.

[remove](#) to remove a Doctor out.

[addDoc](#) to add a new doc.

[edit](#) to edit a doc.

[report past](#) .

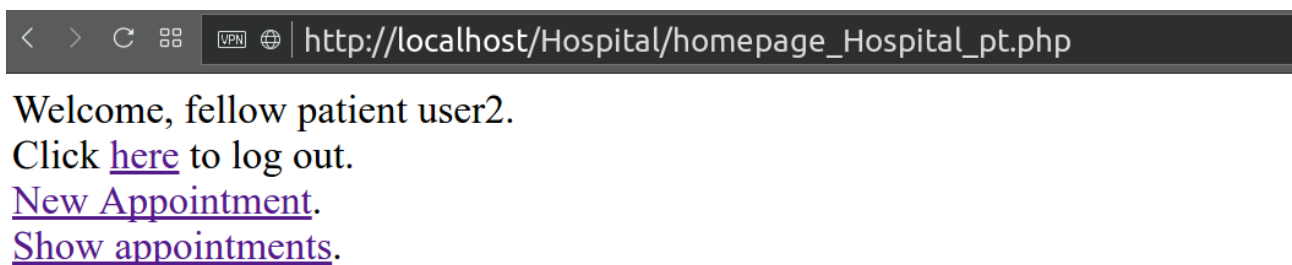
[report future](#) .

[addBranch](#) to add a new Branch.

[removeBranch](#) to remove Branch.

[editBranch](#) to edit Branch.

admin homepage



Browser address bar: http://localhost/Hospital/homepage_Hospital_pt.php

Welcome, fellow patient user2.

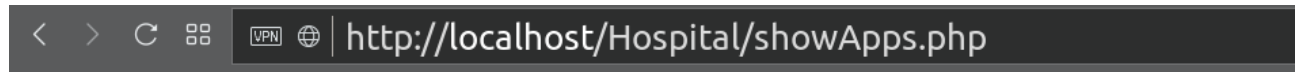
Click [here](#) to log out.

[New Appointment.](#)





[Show appointments.](#)

patient homepage

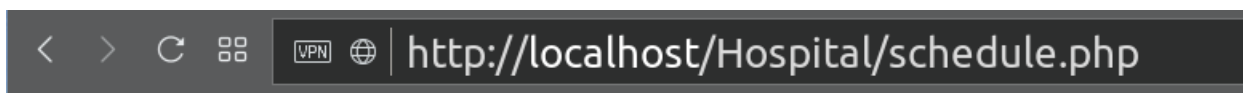
Patient can view his appointments:



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Operations	Doctor	Date	Time
 	ali laz	2017-05-16	13:00:00
 	SEFA veli	2017-05-31	17:00:00

Can arrange a new appointment as:



A screenshot of a web browser's address bar showing the URL 'http://localhost/Hospital/schedule.php'. Below the browser window, the 'Date:' label is followed by a text input field containing the placeholder 'mm/dd/yyyy'. The 'Select a time:' label is followed by a time selection widget showing '---:-- --'. At the bottom left, there is a button labeled 'scheduled'.

CONCLUSION

This project has a very basic, simple interface but gets the job done.

Things are made relatively neater for the regular user (I.e. patient) with drop down menus and some essential GUI for selecting date and time. For the admins things are slightly harder. They are the administrators after all.

For operations of admin's session control is done so that no regular user can violate admin's rights.

Also session control is done to ensure that a user can not change another user's appointment.

Note:

Note that er diagrams are not the way that these relations are implemented but they are to illustrate the relationships.

Note: Although i don't claim the system to be " sql injection proof", there is some level of security against that type of offensive actions. Provided by some default functions and using "right type of input" also using drop down menus etc whenever makes sense to use.