

Project Final Report

Course Information

Course: CSE 480 Web Database Programming (Sections 1)

Instructor: Abdus Satter, Adjunct Faculty, CSE Dept.

Project Name

Title of Project	Doctor Appointment System
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Project Purpose

The goal is to simplify and automate doctor appointment processes, to search for doctor based on a medical name, specification and timetable, and to keep patients' and doctor records.

Project Goals and Objectives

The goals and objectives of the Doctor Appointment System are as follows:

1. Administrators can add, update, and delete records from doctors.
2. Patient can seek doctors based on the name, specialization and timing of the doctors.
3. When booking a doctor's appointment, the patient should be logged in.
4. The patient can always withdraw the appointment.
5. Admin can view the whole list of appointments.
6. Patients can only see their list of appointments.
7. All records are stored in the database.

Project Description

The system to be created is the Doctor Management System. This is a database application system for patients and the administrator to look for doctors according to their specialties, medical name and schedule. All doctors, patients and their appointments are recorded in the system. This project aims to computerize a hospital's patient and doctor's management system to increase record management efficiency due to the increasing size of data recordings.

Scope

The system is designed to operate with hospitals that require doctor management.

System Users

- **Administrator:** Admin has complete system functionality privilege.
- **Patient:** Patients may make a doctor appointment and review their list of appointments.

Database

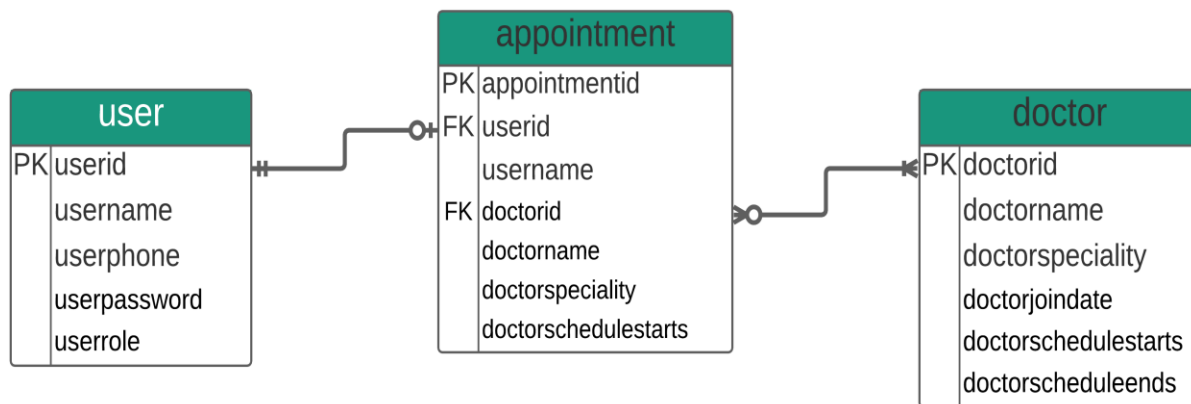


Figure 1: ER Diagram

Processes

- **Login:** The system provides security features through userphone-password matching where only authorized user can access the system with different authorization level.

DOCTOR APPOINTMENT SYSTEM

Phone no.

Password

Wrong userphone or password

Figure 2: login failed due to wrong username or password

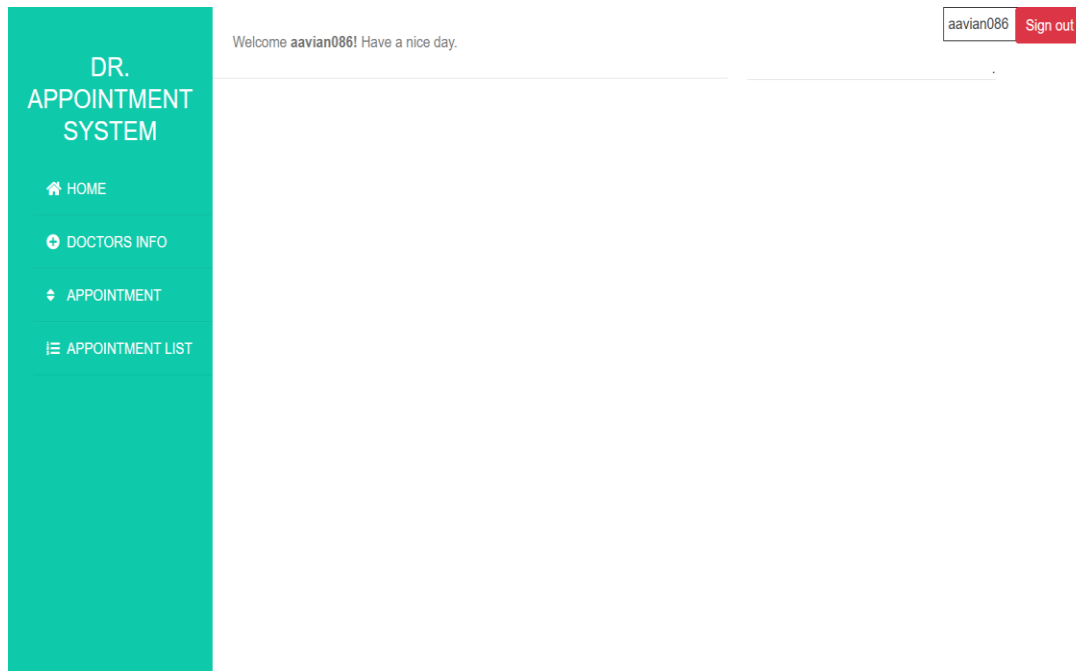


Figure 3: Admin Authorization

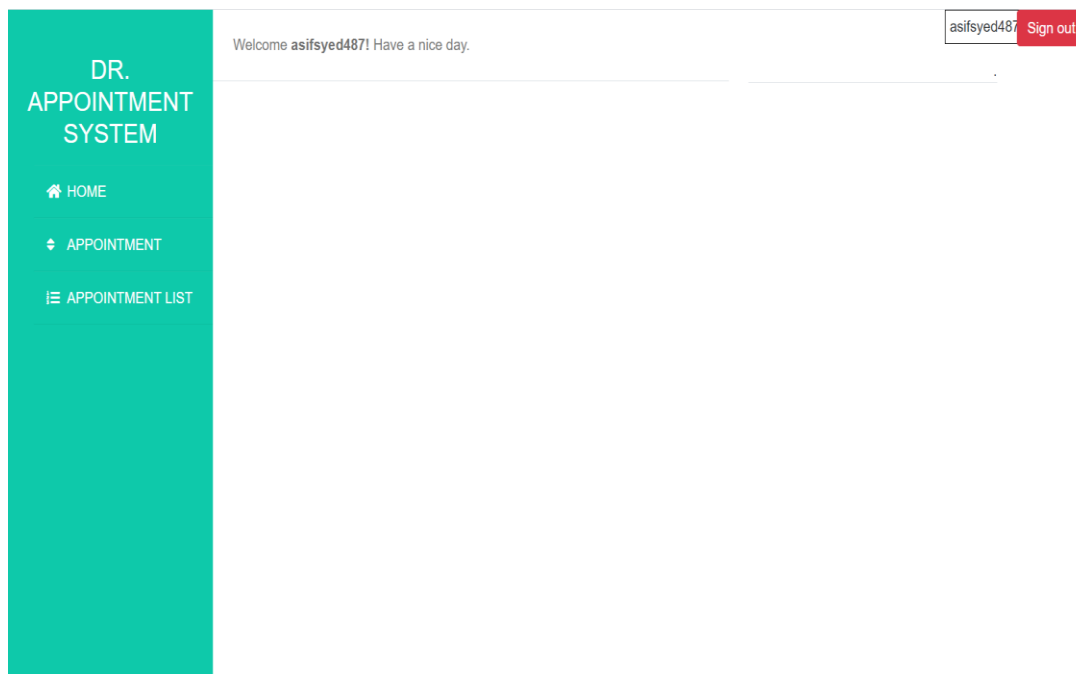
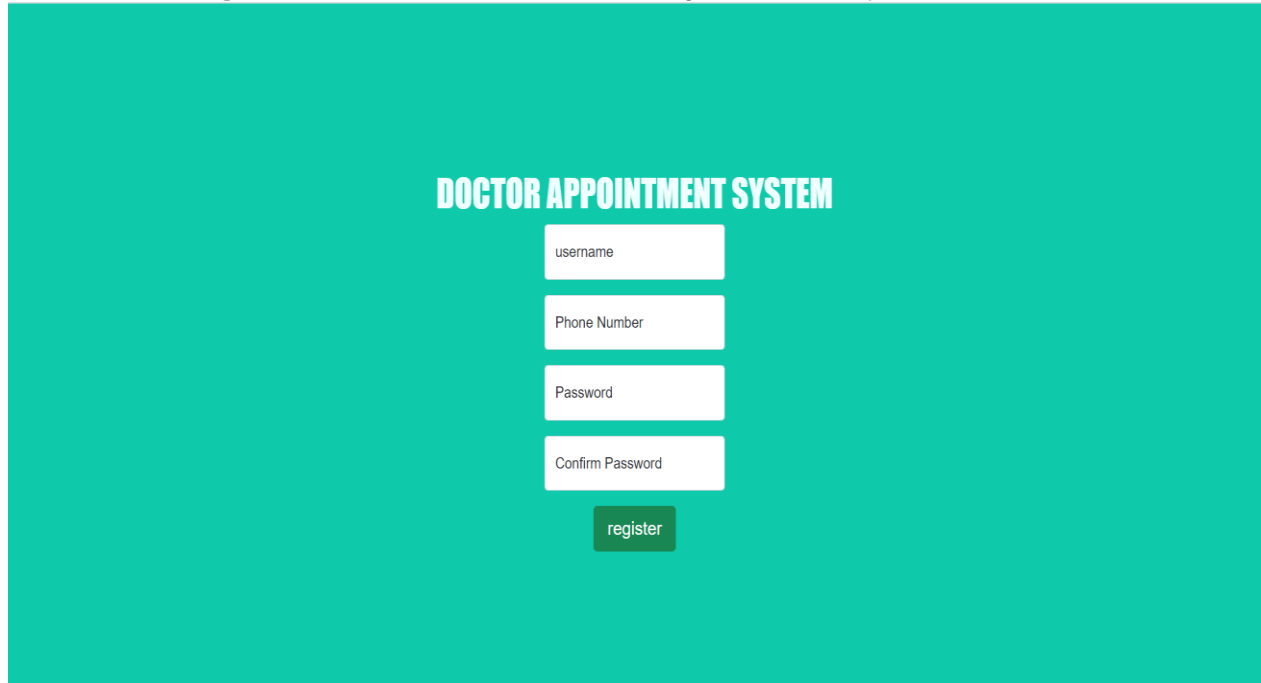


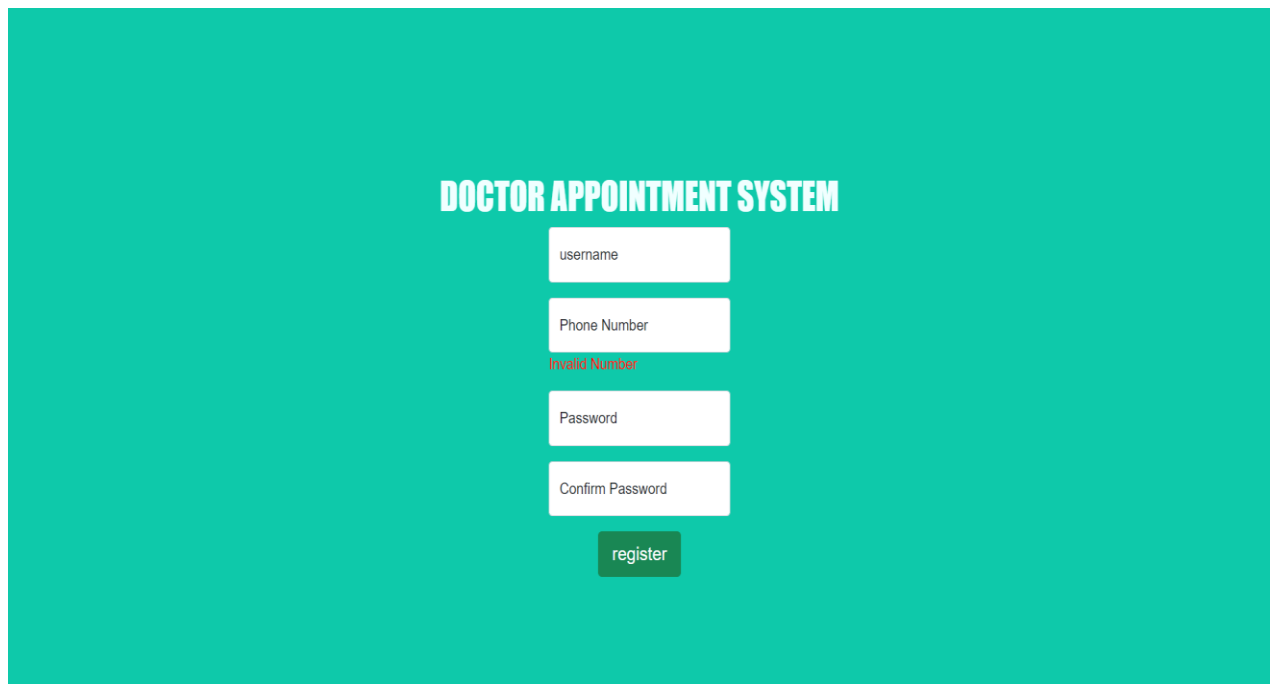
Figure 4: Patient Authorization

- **Patient Registration:** This allows Patient to register for the system.



The screenshot shows a web form titled "DOCTOR APPOINTMENT SYSTEM" in a large, bold, black font. Below the title, there are four input fields stacked vertically, each with a light gray border and a light gray placeholder text: "username", "Phone Number", "Password", and "Confirm Password". Below these fields is a red button with the word "register" in white text. The entire form is set against a solid black background.

Figure 5: Patient Registration



This screenshot shows the same "DOCTOR APPOINTMENT SYSTEM" registration form as Figure 5, but with an error message. The "Phone Number" input field is highlighted with a red border. Below this field, the text "Invalid Number" is displayed in red. The other input fields ("username", "Password", "Confirm Password") and the red "register" button remain unchanged. The background is solid black.

Figure 6: Patient Registration Failed due to invalid phone number

DOCTOR APPOINTMENT SYSTEM

Password Does not match

Figure 7: Patient registration failed due to password mismatch

- **Doctor Management:** The Admin can add, update, delete information of the doctors.

**DR.
APPOINTMENT
SYSTEM**

🏠 HOME

➕ DOCTORS INFO

⚡ APPOINTMENT

☰ APPOINTMENT LIST

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Sign out

DOCTORS INFORMATION

ADD NEW DOCTOR

Speciality

Select Speciality

Joining Date

mm/dd/yyyy

📅

Schedule Starts

Select time

▼

Schedule Ends

Select time

▼

DOCTORS LIST

#	DOCTOR NAME	SPECIALITY	JOINING DATE	SCHEDULE STARTS	SCHEDULE ENDS	UPDATE	DELETE
28	Dr. Hamim	Surgeon	2021-05-01	7.00	11.00	<input type="button" value="UPDATE"/>	<input type="button" value="DELETE"/>
27	Dr. Hannan	Psychiatrist	2021-05-16	8.00	9.30	<input type="button" value="UPDATE"/>	<input type="button" value="DELETE"/>
26	Dr. Bindu	Surgeon	2021-05-02	7.00	10.00	<input type="button" value="UPDATE"/>	<input type="button" value="DELETE"/>
22	Dr. Chondromukhi	Allergy and Immunology	2021-05-08	7.30	9.30	<input type="button" value="UPDATE"/>	<input type="button" value="DELETE"/>
21	Dr. Nasim	Allergy and Immunology	2021-05-05	7.30	9.00	<input type="button" value="UPDATE"/>	<input type="button" value="DELETE"/>

Figure 8: Admin can add new doctor

DR. APPOINTMENT SYSTEM

HOME

DOCTORS INFO

APPOINTMENT

APPOINTMENT LIST

DOCTORS INFORMATION

ADD NEW DOCTOR

Update Successful

Doctor Name

Speciality

Select Speciality

Joining Date

mm/dd/yyyy

Schedule Starts

Select time

Schedule Ends

Select time

Register

DOCTORS LIST

#	DOCTOR NAME	SPECIALITY	JOINING DATE	SCHEDULE STARTS	SCHEDULE ENDS	UPDATE	DELETE
28	Dr. Harun	Surgeon	2021-05-01	7.00	11.00	UPDATE	DELETE
27	Dr. Hannan	Psychiatrist	2021-05-16	8.00	9.30	UPDATE	DELETE
26	Dr. Bindu	Surgeon	2021-05-02	7.00	10.00	UPDATE	DELETE
22	Dr. Chondromukhi	Allergy and Immunology	2021-05-08	7.30	9.30	UPDATE	DELETE

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Sign out

Figure 9: Admin can update existing information of doctor

DR. APPOINTMENT SYSTEM

HOME

DOCTORS INFO

APPOINTMENT

APPOINTMENT LIST

DOCTORS INFORMATION

Update Information

Doctor Name

Dr. Hamim

Speciality

Surgeon

Joining Date

05/01/2021

Schedule Starts

7.00

Schedule Ends

11.00

Update

DOCTORS LIST

#	DOCTOR NAME	SPECIALITY	JOINING DATE	SCHEDULE STARTS	SCHEDULE ENDS	UPDATE	DELETE
28	Dr. Hamim	Surgeon	2021-05-01	7.00	11.00	UPDATE	DELETE
27	Dr. Hannan	Psychiatrist	2021-05-16	8.00	9.30	UPDATE	DELETE
26	Dr. Bindu	Surgeon	2021-05-02	7.00	10.00	UPDATE	DELETE
22	Dr. Chondromukhi	Allergy and Immunology	2021-05-08	7.30	9.30	UPDATE	DELETE
21	Dr. Nasim	Allergy and Immunology	2021-05-05	7.30	9.00	UPDATE	DELETE

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Sign out

Figure 10: Admin can update information about existing doctor

DR.
APPOINTMENT
SYSTEM

HOME

DOCTORS INFO

APPOINTMENT

APPOINTMENT LIST

DOCTORS INFORMATION

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ADD NEW DOCTOR

DOCTORS LIST

Deleted Successfully ..

Doctor Name

Speciality
Select Speciality

Joining Date
mm/dd/yyyy

Schedule Starts
Select time

Schedule Ends
Select time

Register

#	DOCTOR NAME	SPECIALITY	JOINING DATE	SCHEDULE STARTS	SCHEDULE ENDS	UPDATE	DELETE
28	Dr. Hamim	Surgeon	2021-05-01	7.00	11.00	UPDATE	DELETE
27	Dr. Hannan	Psychiatrist	2021-05-16	8.00	9.30	UPDATE	DELETE
26	Dr. Bindu	Surgeon	2021-05-02	7.00	10.00	UPDATE	DELETE
22	Dr. Chondromukhi	Allergy and Immunology	2021-05-08	7.30	9.30	UPDATE	DELETE

Figure 11: Admin can delete existing doctor.

- **Appointment Management:** Both the admin and patient can make appointment to doctor and cancel anytime.

DR.
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SYSTEM

HOME

DOCTORS INFO

APPOINTMENT

APPOINTMENT LIST

DOCTORS INFORMATION

Doctor Name
Dr. Harun

Speciality
Speciality

Schedule Starts
Select time

Search

DOCTORS LIST

#	DOCTOR NAME	SPECIALITY	SCHEDULE STARTS	APPOINTMENT
28	Dr. Harun	Surgeon	7.00	MAKE APPOINTMENT

Figure 12: Admin and Patient can search doctor only by their name

DR.
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SYSTEM

HOME

DOCTORS INFO

APPOINTMENT

APPOINTMENT LIST

DOCTORS INFORMATION

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SEARCH DOCTOR

Doctor Name

Speciality
Surgeon

Schedule Starts
Select time

Search

DOCTORS LIST

#	DOCTOR NAME	SPECIALITY	SCHEDULE STARTS	APPOINTMENT
26	Dr. Bindu	Surgeon	7.00	MAKE APPOINTMENT
28	Dr. Harun	Surgeon	7.00	MAKE APPOINTMENT

Figure 13: Admin and Patient can search doctor only by their speciality.

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HOME

DOCTORS INFO

APPOINTMENT

APPOINTMENT LIST

DOCTORS INFORMATION

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SEARCH DOCTOR

Doctor Name

Speciality
Speciality

Schedule Starts
7:30

Search

DOCTORS LIST

#	DOCTOR NAME	SPECIALITY	SCHEDULE STARTS	APPOINTMENT
22	Dr. Chondromukhi	Allergy and Immunology	7.30	MAKE APPOINTMENT

Figure 14: Admin and Patient can search doctor only by their schedule

DR.
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SYSTEM

HOME

DOCTORS INFO

APPOINTMENT

APPOINTMENT LIST

DOCTORS INFORMATION

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Sign out

#	PATIENT ID	PATIENT NAME	DOCTOR ID	DOCTOR NAME	DOCTOR SPECIALITY	SCHEDULE STARTS	DELETE
15	2	aavian086	22	Dr. Chondromukhi	Allergy and Immunology	7.30	DELETE
14	4	asifsyed487	27	Dr. Hannan	Psychiatrist	8.00	DELETE

Figure 15: Admin can see both admin and patient's appointment list

DR.
APPOINTMENT
SYSTEM

HOME

APPOINTMENT

APPOINTMENT LIST

DOCTORS INFORMATION

asifsyed487

Sign out

#	PATIENT ID	PATIENT NAME	DOCTOR ID	DOCTOR NAME	DOCTOR SPECIALITY	SCHEDULE STARTS	DELETE
14	4	asifsyed487	27	Dr. Hannan	Psychiatrist	8.00	DELETE

Figure 16: Patient can only see his/her appointment list

DR.
APPOINTMENT
SYSTEM

HOME

DOCTORS INFO

APPOINTMENT

APPOINTMENT LIST

DOCTORS INFORMATION

aavian086

Sign out

#	PATIENT ID	PATIENT NAME	DOCTOR ID	DOCTOR NAME	DOCTOR SPECIALITY	SCHEDULE STARTS	DELETE
15	2	aavian086	22	Dr. Chondromukhi	Allergy and Immunology	7.30	DELETE

Figure 17: Admin and Patient can delete their appointment

Technology

Frontend Language: PHP

Backend Language: MySQL Database