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Database Project Report

Team 13

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Submitted to Dr. Ahmed Hesham

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Project Overview

Our project is a web-based healthcare system for the internal health department. It involves user authentication and management, as well as displaying and interacting with data from a database. Users can log in, interact with their profile, view appointments, prescriptions, and communicate with doctors and nurses.

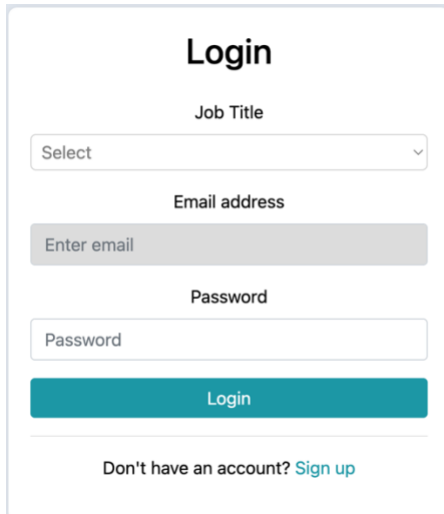
The system allows different roles like patients, doctors, and nurses to have specific functionalities and access to relevant information. Patients can view their appointments and prescriptions, while doctors can manage appointments and generate diagnostic reports. Nurses can handle prescriptions and assist in patient care.

The project aims to provide a centralized platform for healthcare professionals and patients to manage their medical information, appointments, and communicate efficiently.

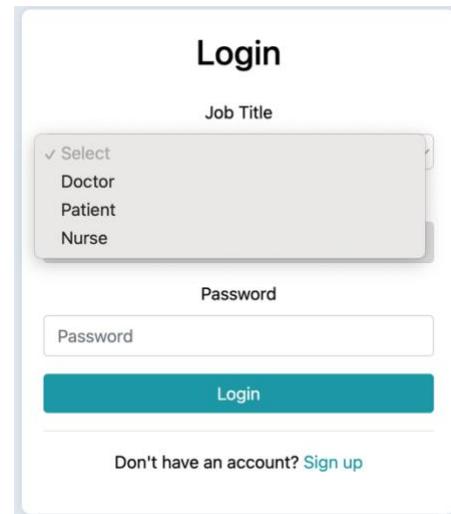
Pages & Features

i. Login Page

Users are required to enter their email address, password and job title to log into the system. The job title box is a drop list of three options: doctor, patient or nurse.

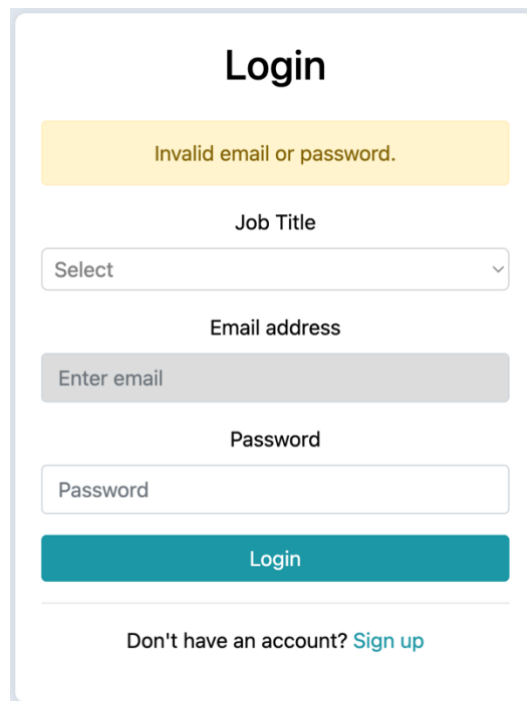


A login form titled "Login" with the following elements: a "Job Title" label above a dropdown menu showing "Select"; an "Email address" label above a text input field with placeholder text "Enter email"; a "Password" label above a text input field with placeholder text "Password"; a teal "Login" button; and a link "Don't have an account? Sign up" at the bottom.



A login form titled "Login" with the "Job Title" dropdown menu open, displaying three options: "Doctor", "Patient", and "Nurse". The other elements (Email address, Password, Login button, and Sign up link) are identical to the previous mockup.

If any of the information entered is wrong an error message will be displayed on the page.



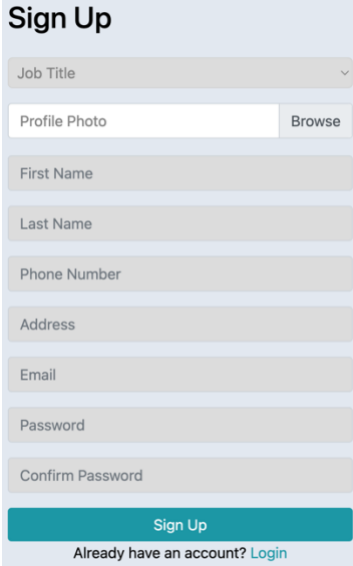
A login form titled "Login" displaying an error message "Invalid email or password." in a yellow box at the top. Below the error message are the "Job Title" dropdown (showing "Select"), "Email address" text input (placeholder "Enter email"), "Password" text input (placeholder "Password"), a teal "Login" button, and the "Don't have an account? Sign up" link.

Additionally, at the bottom of the page there is an option to sign up for users who do not have an account. The sign-up button redirects to the registration page.

After logging in, users are redirected to the home page.

ii. Registration Page

This page allows new users to register by providing their personal information, including first name, last name, email, password, confirm password, phone number, address, job title, and profile photo. It handles the form submission and creates a new user account in the database, associating the user with their specified role.



The image shows a 'Sign Up' form with a light blue header. The form contains the following fields: 'Job Title' (a dropdown menu), 'Profile Photo' (a text input with a 'Browse' button), 'First Name', 'Last Name', 'Phone Number', 'Address', 'Email', 'Password', and 'Confirm Password'. At the bottom, there is a teal 'Sign Up' button and a link that says 'Already have an account? Login'.

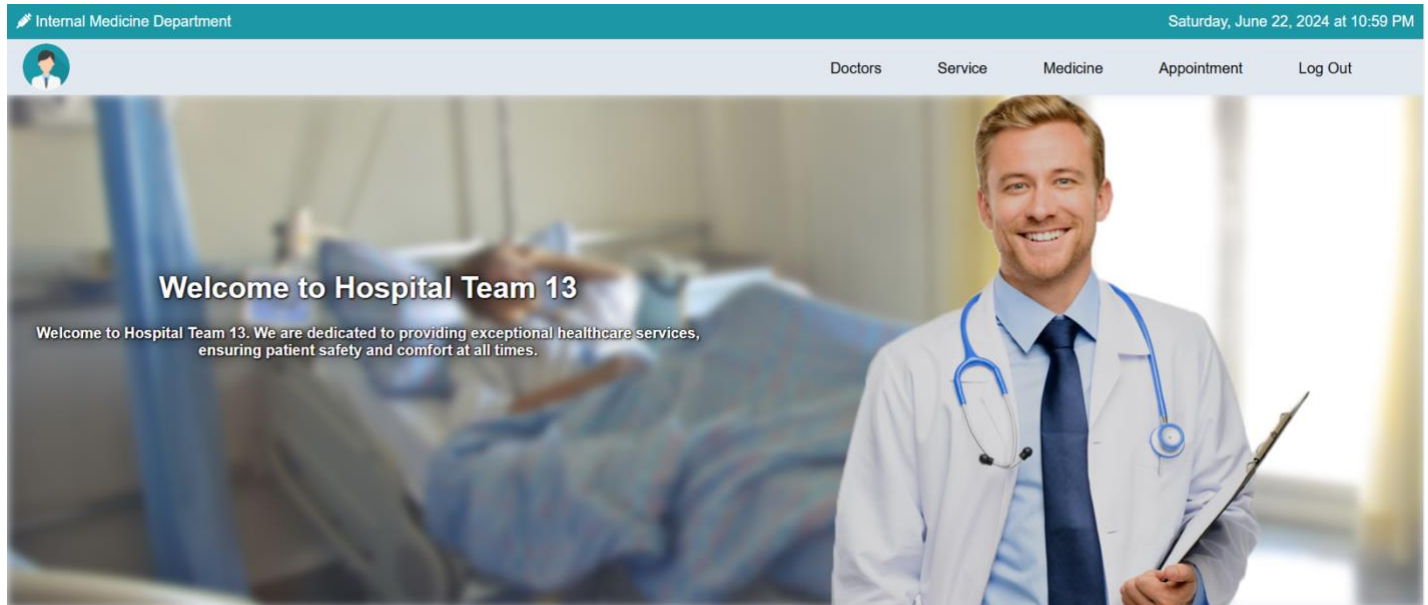
iii. Home Page

This page serves as the main entry point of our web application. The home page interface is a little different for each type of user.

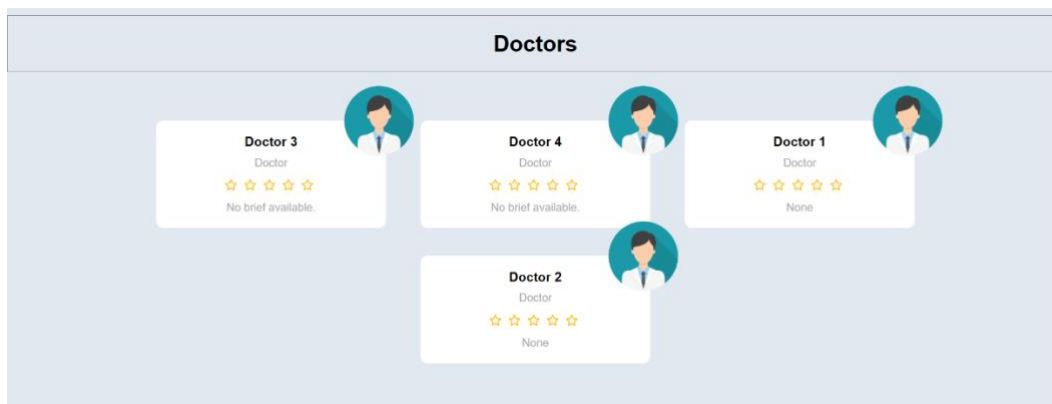
At the top right side of the page the title of the department “Internal Medicine Department” is displayed and at the top left the date and time are displayed. The profile picture of the user is also displayed which if pressed it directs to the user’s profile page. Additionally, buttons that redirect to different sections of the home page are included plus a log out button.

- **Patient**

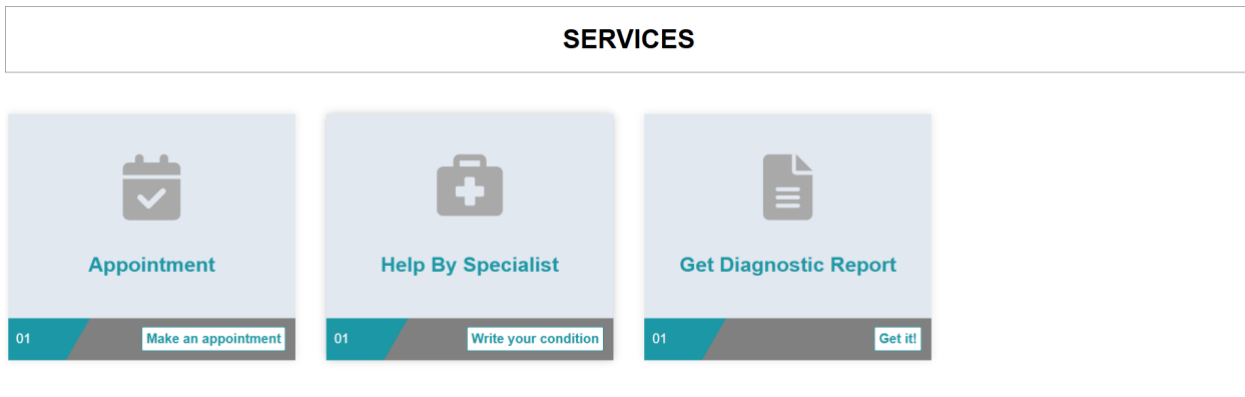
First, we'll start with the home page from the point of view of the patient.



The first section in the patient home page is the Doctors section which includes a list of doctors in the system along with brief descriptions about themselves and a rating out of five stars given to them by patients which is calculated by taking the average of all the ratings they were given.



iv. Services section.



It includes three types of services:

a) Appointment:

The patient can press the “Make an appointment” button to make a reservation in which they can select a doctor and choose their desired date and time for the appointment. The chosen time for the appointment must be available for both the patient and the doctor. In other words, a patient can’t reserve two appointments at the same time with two different doctors or reserve an appointment with a doctor which has been already reserved by another patient.

The "Reserve Appointment" form includes a "Choose a Doctor:" dropdown menu with "Select a Doctor" as the placeholder. Below it is a "Date:" dropdown menu showing "Sun Jun 23 2024". There is also a "Time:" dropdown menu. At the bottom are "Cancel" and "Reserve" buttons.

b) Help By Specialist:

The patient can press the “Write your condition” button which opens a textbox in which they can write the details of their medical condition in order to get help from a suitable specialist.

This form contains a large text area with the placeholder text "Write something...". Below the text area are "Cancel" and "Submit" buttons.

c) Get Diagnostic Report:

The patient can press the “Get it” button which gives them the option to download a copy of the report of their diagnosis which was written by a doctor.

The "Get Diagnostic Report" card shows a document icon and the title "Get Diagnostic Report". At the bottom, there is a "Download" button and a "Cancel" button. A small "01" indicator is visible in the bottom left corner.

Medicine

The third section in the patient homepage is the Medicine section which includes the name of the nurse and the next drug that the patient should take.

Medicine	
Nurse	Next-Drug
Nurse 2	Drug 1
Nurse 3	Drug 2
Nurse 3	Drug 3

Appointment

The fourth section in the patient homepage is the appointment section which includes a list of the patient's appointments with the name of the doctor, the date, and the time of each appointment.

Appointment		
Doctor	Date	Time
Doctor 1	2024-06-23	08:00:00
Doctor 4	2024-06-27	08:00:00
Doctor 3	2024-07-01	08:00:00
Doctor 3	2024-06-30	14:00:00
Doctor 3	2024-06-28	11:00:00
Doctor 4	2024-06-25	08:00:00
Doctor 3	2024-06-26	08:00:00

Reviews

The last section in the patient homepage is the reviews section in which the patient can select a doctor and write a review about them in the text box and give them a rating out of five stars.

Reviews

Choose the Doctor

Select Doctor

Rating

★★★★★

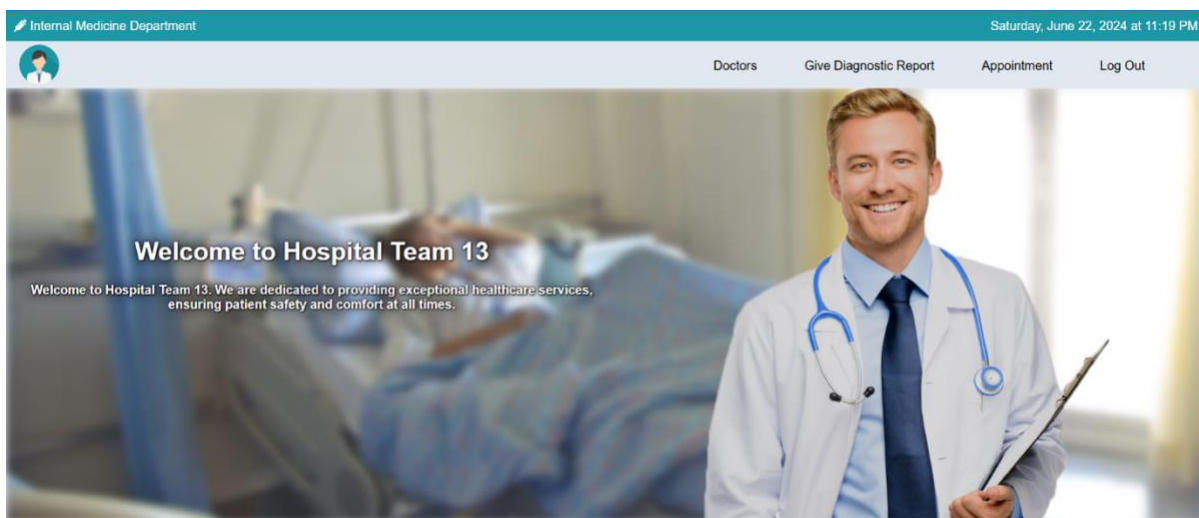
Review

Write Your Review...

Submit Review

• Doctor

Second, we will talk about the homepage from the point of view of doctors. It is like the patient home page except the medicine and services sections do not exist and there's a new section called "Give Diagnostic report" which allows the doctors to give diagnostic reports to patients by selecting the patient, nurse, drug and dosage.



Give Diagnostic Report

Choose the Patient

Select Patient

Choose the Nurse

Select Nurse

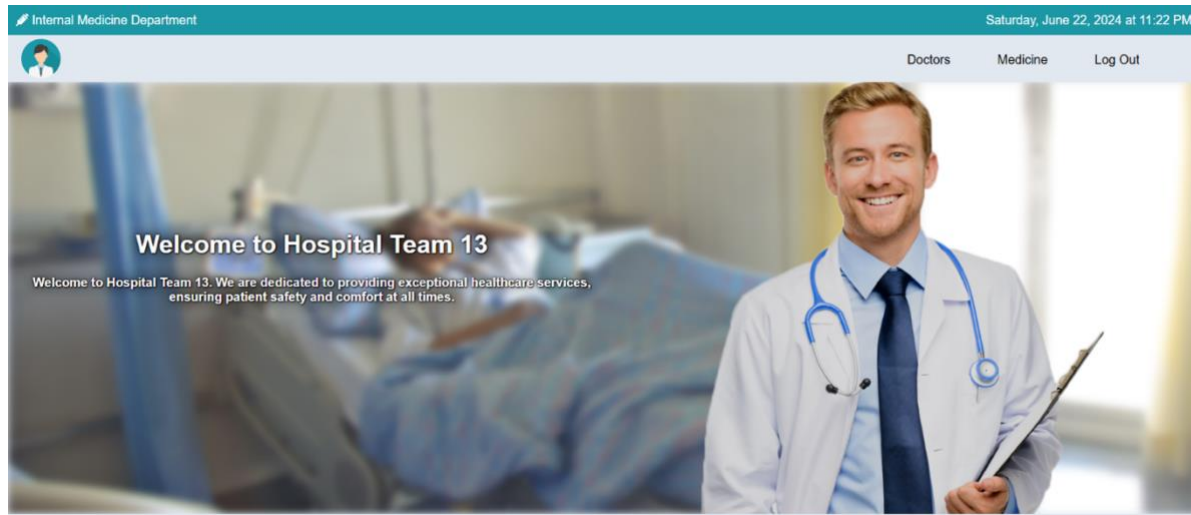
Drug:

Dosage:

Prescribe

- **Nurse**

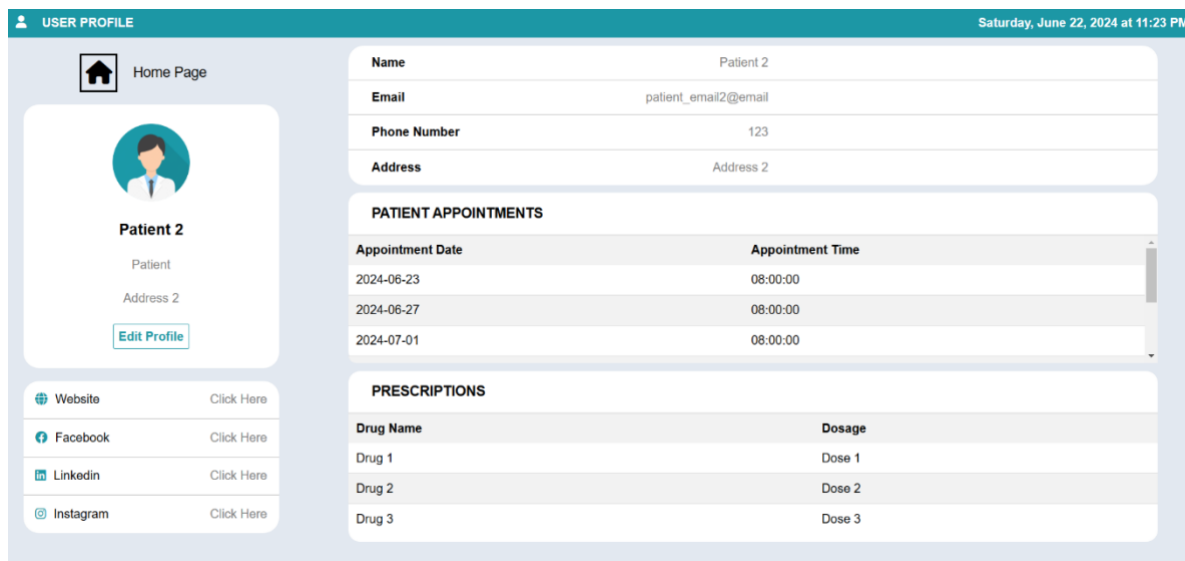
Third is the home page from the point of view of nurses. It only includes the Doctors and Medicine sections.



v. Profile Page

This page displays the user's profile information and related data fetched from the database. It shows appointments and prescriptions specific to the logged-in user's role (doctor, nurse, or patient). It also allows the user to view and edit their profile information.

- **Patient Profile**



The patient's profile displays the patient's, name, profile picture, email, phone number, address, social media links, appointments and prescriptions. The appointments table is divided into three parts: today's appointments', next days' appointments and Past

appointments. The profile also includes a button to return to the home page and a button to edit the profile.

- **Doctor Profile**

USER PROFILE Saturday, June 22, 2024 at 11:34 PM

[Home Page](#)

Doctor 3
Doctor
Address 3
[Edit Profile](#)

[Website](#) Click Here
[Facebook](#) Click Here
[LinkedIn](#) Click Here
[Instagram](#) Click Here

Personal Information

Name	Doctor 3
Email	doc_email3@email
Phone Number	123456789
Address	Address 3

DOCTOR APPOINTMENTS

Appointment Date	Appointment Time
2024-06-26	08:00:00
2024-06-28	11:00:00
2024-06-30	14:00:00

PATIENT REVIEWS

Patient Name	Stars	Review
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The doctor's profile displays the doctor's, name, profile picture, email, phone number, address, social media links, appointments and patient reviews.

- **Nurse Profile**

USER PROFILE Saturday, June 22, 2024 at 11:36 PM

[Home Page](#)

Nurse 3
Nurse
Address 1
[Edit Profile](#)

[Website](#) Click Here
[Facebook](#) Click Here
[LinkedIn](#) Click Here
[Instagram](#) Click Here

Personal Information

Name	Nurse 3
Email	nurse_email3@email
Phone Number	123
Address	Address 1

PRESCRIPTIONS

Drug Name	Dosage
Drug 2	Dose 2
Drug 3	Dose 3

The nurse's profile displays the nurse's, name, profile picture, email, phone number, address, social media links and prescriptions

vi. Edit Profile Page

This page provides a form for the user to edit their profile information. It pre-fills the form fields with the user's current information and allows them to update their first name, last name, email, phone number and address. The user can also upload a profile photo or remove the current photo. Doctors have an additional option to add a brief about themselves.

Edit User Information

First Name

Patient

Last Name

2

Email

patient_email2@email

Password

123

Phone

123

Address

Address 2

Profile Photo

Choose File

Remove

Update

Edit User Information

First Name

Doctor

Last Name

3

Email

doc_email3@email

Password

123

Phone

123456789

Address

Address 3

Brief

None

Profile Photo

Choose File

Remove

Update

vii. Light & Dark Mode

The user can alter between light and dark modes on the website depending on the system’s display settings.

Internal Medicine Department

Saturday, June 22, 2024 at 11:39 PM

DoctorsServiceMedicineAppointmentLog Out

Welcome to Hospital Team 13

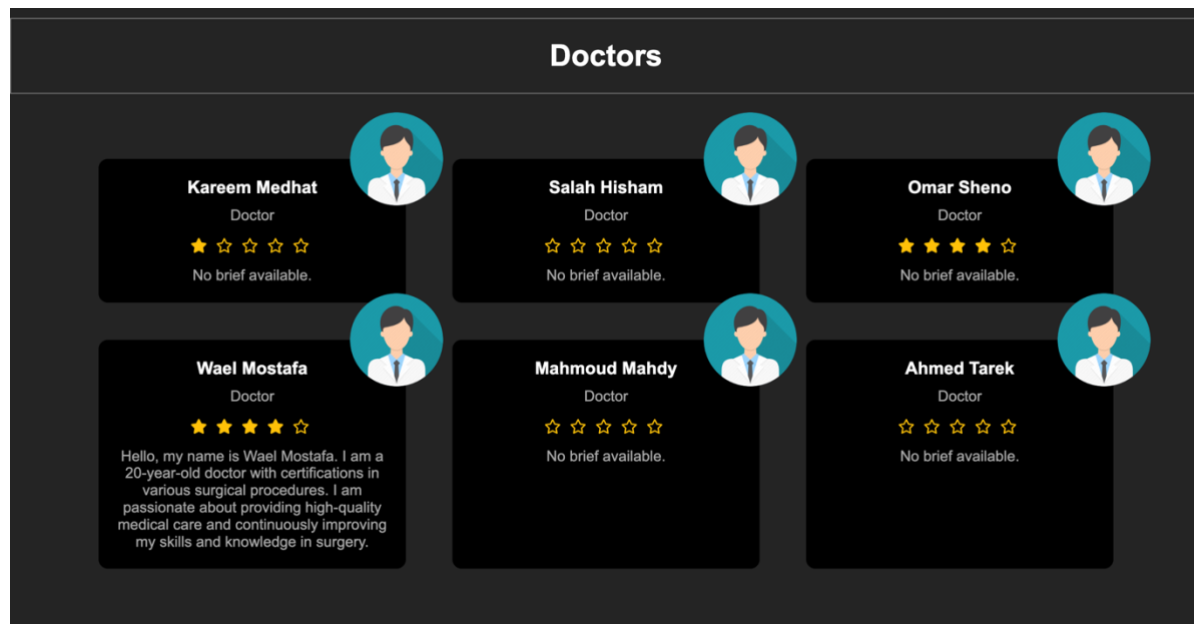
Welcome to Hospital Team 13. We are dedicated to providing exceptional healthcare services, ensuring patient safety and comfort at all times.

Appointment

Patient Name	Appointment Date	Appointment Time
Yassien Tawfik	2024-06-25	10:30:00
Ahmed Mostafa	2024-06-27	14:43:00
Ibrahim Mostafa	2024-06-30	10:00:00
Ahmed alaa	2024-07-01	10:00:00

Past Appointments

Yassien Tawfik	2024-06-21	08:00:00
Yassien Mohamed	2024-06-22	08:00:00



Future Improvements

Mobile Application

Developing a mobile application for the healthcare system will provide users with convenient access to healthcare services on-the-go.

Benefits

- **Accessibility:** Patients, doctors, and nurses can access the system from anywhere, increasing convenience and engagement.
- **User Engagement:** Push notifications can keep users informed about appointments, prescriptions, and other important updates.
- **Improved Experience:** A mobile app offers a tailored user experience with features optimized for mobile devices.

Enhanced Appointment Management

Improving the appointment scheduling system with more advanced features will optimize the booking process and enhance user experience.

Benefits

- **Efficiency:** Reduces scheduling conflicts and optimizes time management for both patients and healthcare providers.
- **Flexibility:** Provides users with more options and control over their appointments.
- **User Satisfaction:** Enhances user experience by making the appointment process more seamless and user-friendly.

Conclusion

Enhancing the healthcare system with a mobile application and improved appointment management will significantly benefit patients, doctors, and nurses. A mobile app will provide easy access to healthcare services, allowing users to book appointments, manage prescriptions, and receive updates conveniently on their smartphones. Advanced scheduling features, automated reminders, and telemedicine options will streamline the booking process, reduce conflicts, and improve efficiency. These improvements will increase user satisfaction, optimize healthcare delivery, and ensure better patient care.