



KHULNA UNIVERSITY OF ENGINEERING & TECHNOLOGY

Department of Computer Science and Engineering

CSE-3200 Project Report

Course Name : System Development Project

Project Name : A Web-based system for Health-care Management

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1 Introduction

“DoctorTalks: A Web-based system about health-care management” is an online platform where any user logged in as patient can consult with a doctor through messaging service and set appointment for further checkup. The system also has features like a blood bank where the information of users who wants to donate blood can be saved and people who are looking for blood can also check if blood is available of the certain type they are looking for. Here doctors would give advice voluntarily. Besides the web application also has a premium subscription features where the users or the patients can unlock special discount and features on associated hospitals. With that we can also check if a hospital has any vacant ICU or general Bed for serious condition of a patient which is very important to keep a record in this time of pandemic.

2 Background

Now a days everything is at the palm of the hand as the world is technically growing. Consulting a doctor should be in the same line as the other communication has turned into. There are many doctors who want to help the people with common medical condition. So we tried to bring the doctor and the patient closer with just one tap on the phone. Of course, it is not an alternative to see the doctor in person. It just helps the doctor to point out the probability of a certain disease to the patient. Besides, setting appointment with doctor has always been a trouble in our country. In this web application we tried to automate the appointment setup with a certain doctor. Moreover, in this era of Internet it is still a trouble to find a suitable blood donor on time, specially if the blood group is of rare type. So here we tried to keep a record of the people who would like to donate blood but we also checked if he is ready to donate blood if he already donated before.

2.1 Related Work

2.1.1 daktarbhai.com

It is a Bangladeshi website which allows its users to communicate with doctor with some easy steps. And it also has some similar features like blood banks, appointments.

2.2 Objectives

- Creating a platform where patients can easily consult a doctor for initial treatment
- Keeping a record of the people who wants to donate blood
- Easier way to set appointment with doctor
- Easier way to check if the hospitals have any ICU/Bed available for booking • Easier way to find blood donor

3 System Overview

3.1 Software Development Lifestyle Model

As our first time developing a system we tried to keep it minimal and as simple as possible. As a result with we decided to choose the basic SDLC model. Among many SDLC models we decided to go along with the Waterfall Model. This SDLC model is the oldest and most straightforward. With this methodology, we finish one phase and then start the next. Each phase has its own mini-plan and each phase “waterfalls” into the next. The biggest drawback of this model is that small details left incomplete can hold up the entire process.

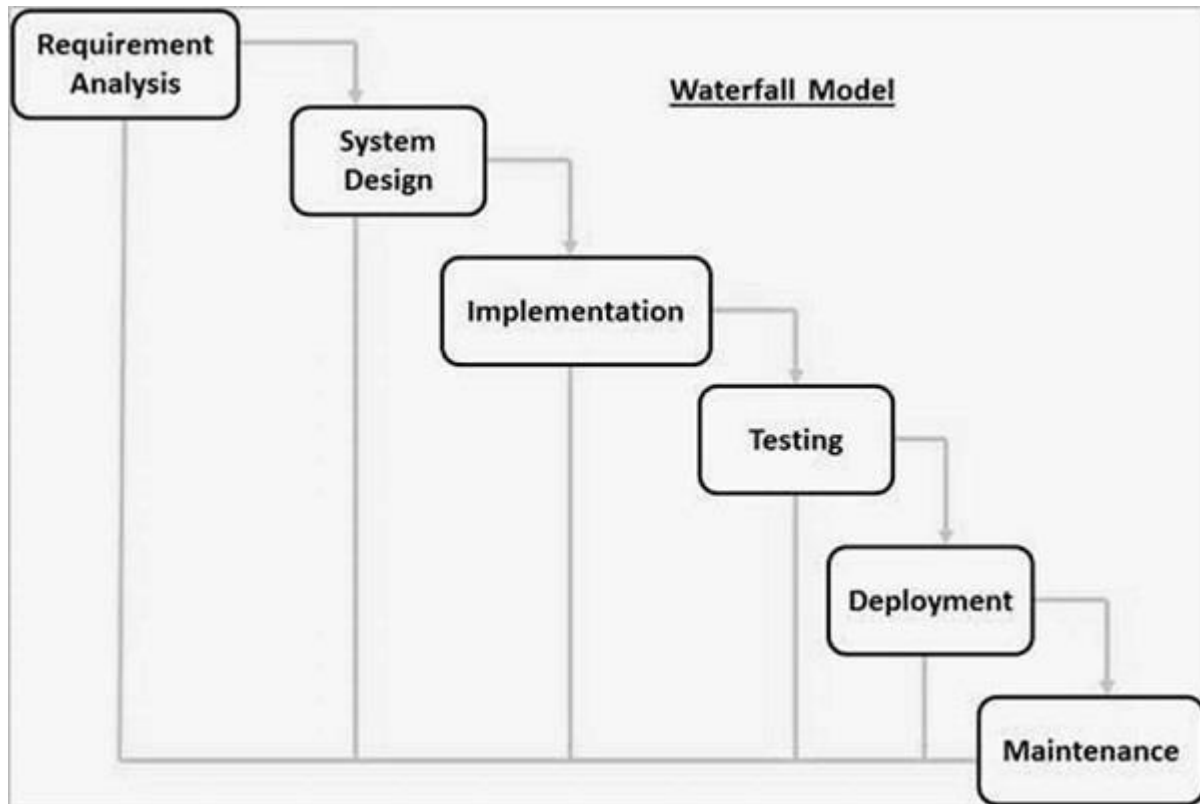


Figure 3.1: Waterfall SDLC Model

3.2 Requirement Analysis

At first we discussed about many approach how our plan can be turned into actual working system. We considered android development and web development to implement the project. After discussion we tried to keep it in web based application so that our targeted audience becomes larger.

3.3 System Design

After selecting our platform we started planning our system design. Initially we made figures how we wanted our webpage to look and function. We made lots of diagram to get an initial idea how the things will work when all the components will be merged together.

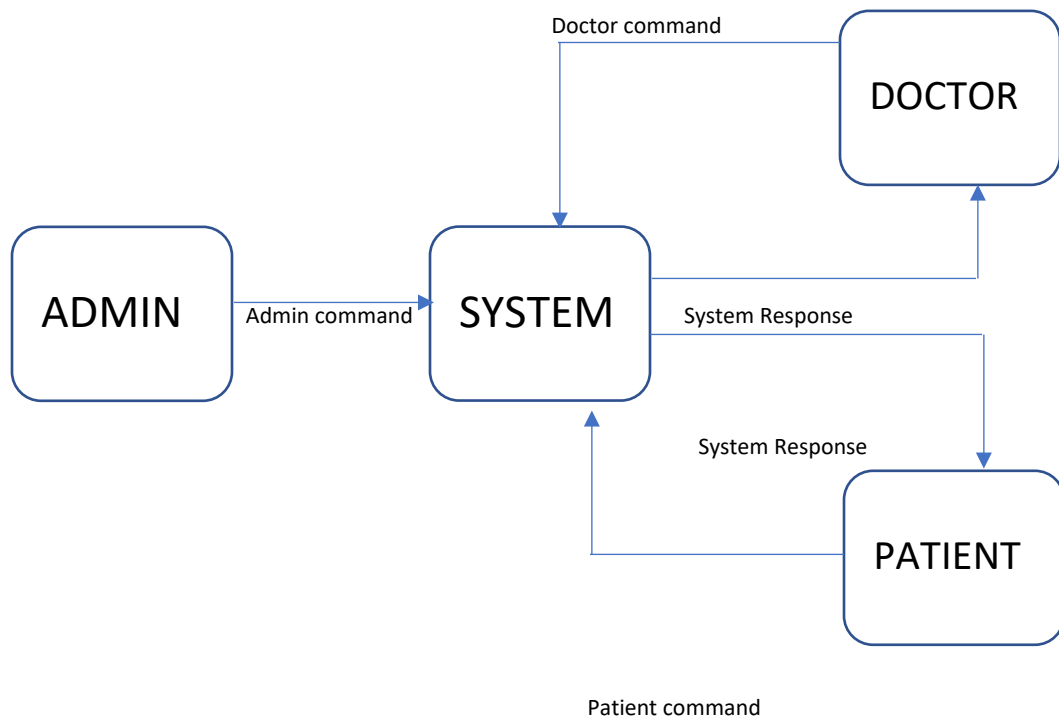


Figure 3.3: Data Flow Diagram with primary components

3.4 Implementation

This is the phase where we spent most of our time. We designed the client side to server side along with the database we needed in this phase. The parts which were independent to each other were being developed simultaneously in this phase.

3.5 Tools and Technologies Used

For the majority of the parts we used HTML, CSS, JavaScript along with php and JavaScript library ajax. The user interface or the Front-end part of the website was built using HTML, CSS and JavaScript. However, to communicate with our database we used basic php. And in between JavaScript helped to pass the data back and forth to webpage to database. To save and retrieve data in our date base we used MySQL database management system. For code editors we used Visual Studio Code and to create local server we used Xampp.

3.6 Testing

After implanting our codes, the system was tested in different browsers (Google Chrome, Microsoft Edge) and different machine to check everything was working fine.

4 System Analysis

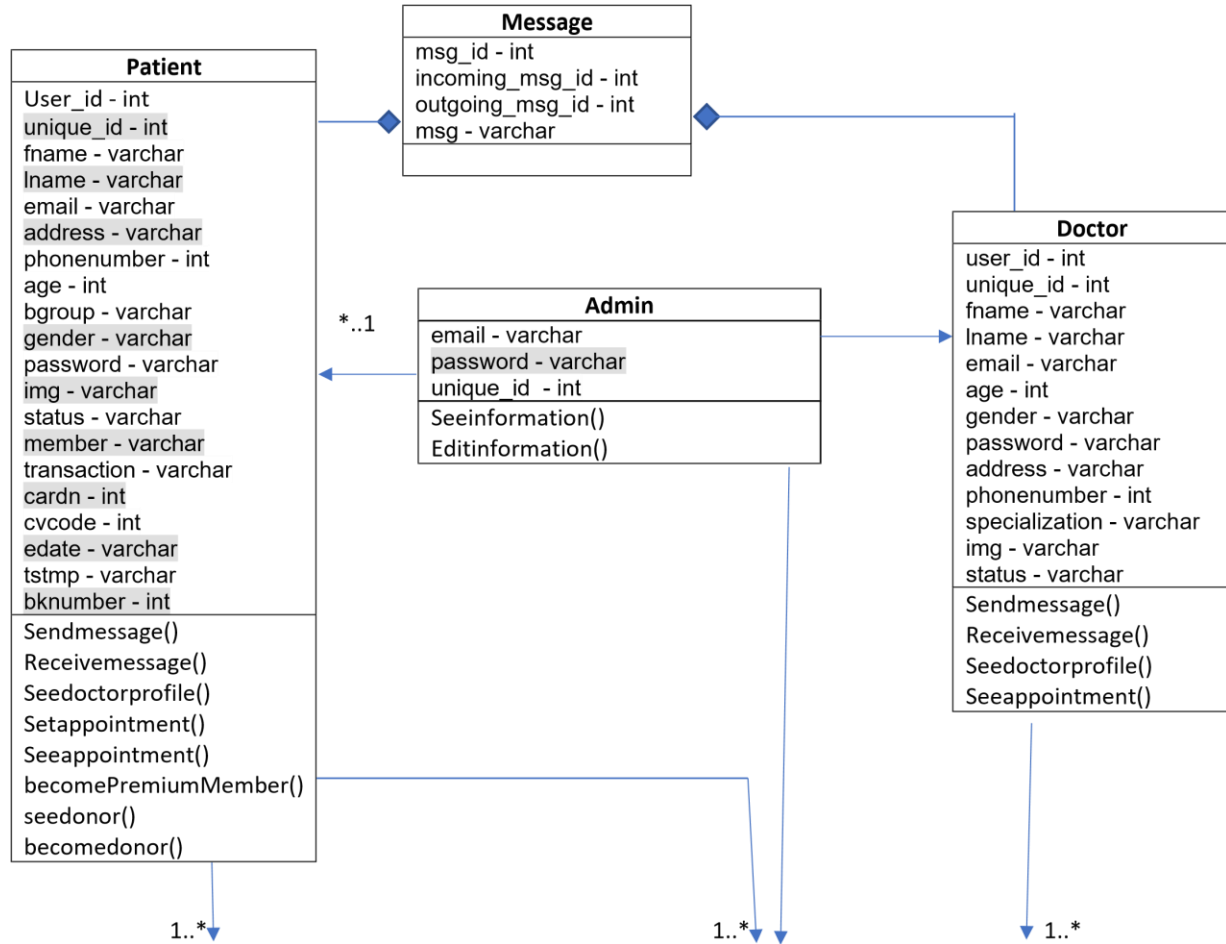
In DoctorTalks one can register either as a patient or a doctor. After registration and login Patient then can see available doctor who registered in our system and their profile. Send them messages as well as receive messages from them. Patient can also set appointment with the doctor and visit them on specified time for a in person checkup. Patient as a user can set appointment for himself or any of his friends or family member. After setting the appointments patient can see all the appointments and the details that had been set up from his account. Moreover, patient as a user can also check available blood donor and as a matter of fact he, himself can register to be a donor to help other. There is premium membership features that will be available to the patients only after he or she will pay the subscription fees. In the membership, the user will have some special discounts or features which normal users won't have.

As for Doctor side of the system, one also has to register as a doctor. After registration and login the doctor will be able to see the patient list and their details. He or She can send message or response to the messages that had been sent to him by the patients. He can also see his upcoming appointments as well as previous appointments with patient with details.

As for general viewer of the website they can see details about the hospitals like if a particular hospital has any ICU/General Bed vacant for booking or the doctor information associated with the hospital.

The admin panel is only visible to authorized person. The admin can monitor, delete, create or edit user(doctor/patient) information. The admin also authenticates the payment for membership for the website.

5 System Design



5.1 Static Model

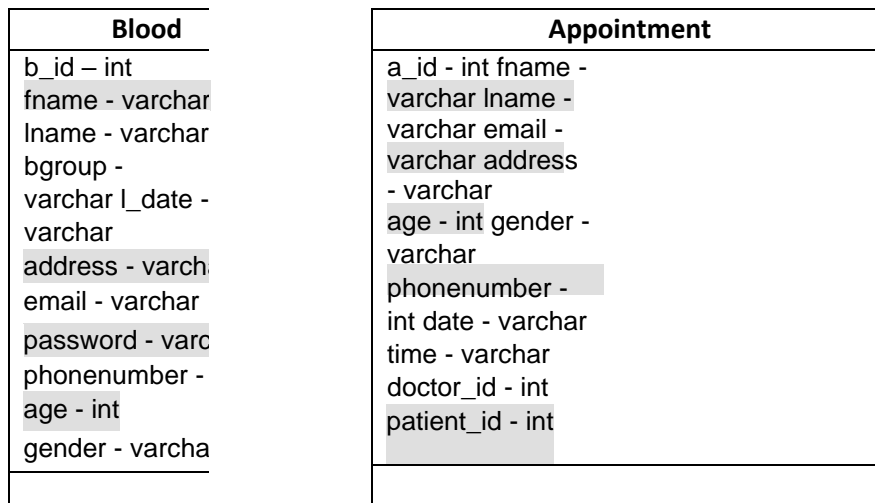


Figure 5.1: Static Model

5.2 Dynamic Model: Data Flow Diagram

The flow of the data in the system is shown using the data flow diagram. Here we used the top down decomposition to show the most detailed data flow in the lowest level.

5.2.1 Level 0 Data Flow Diagram

The following diagram gives an high level overview how the data flows across the system.

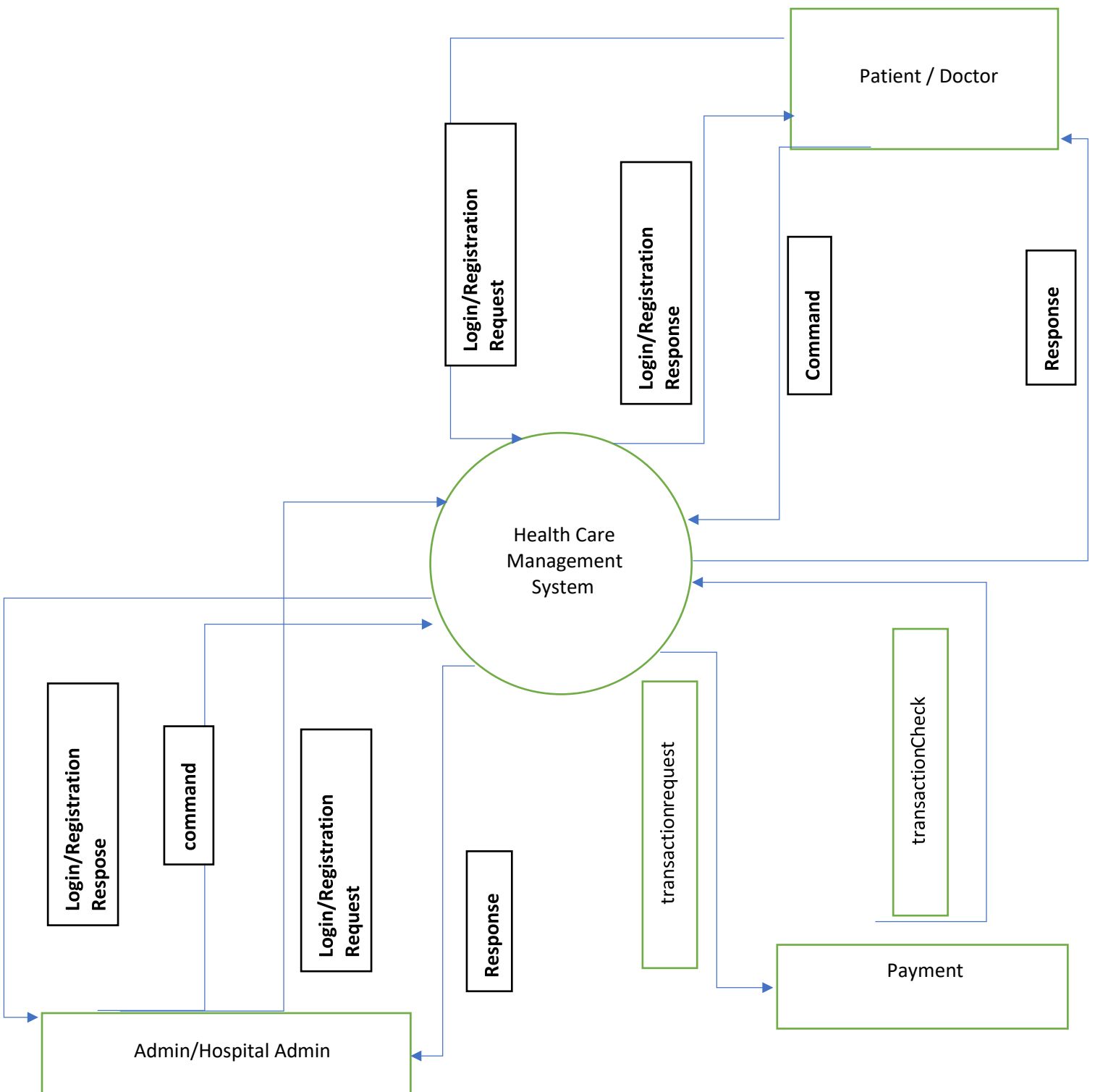


Figure 5.2: Level 0 Data Flow Diagram

5.2.2 Level 1 Data Flow Diagram

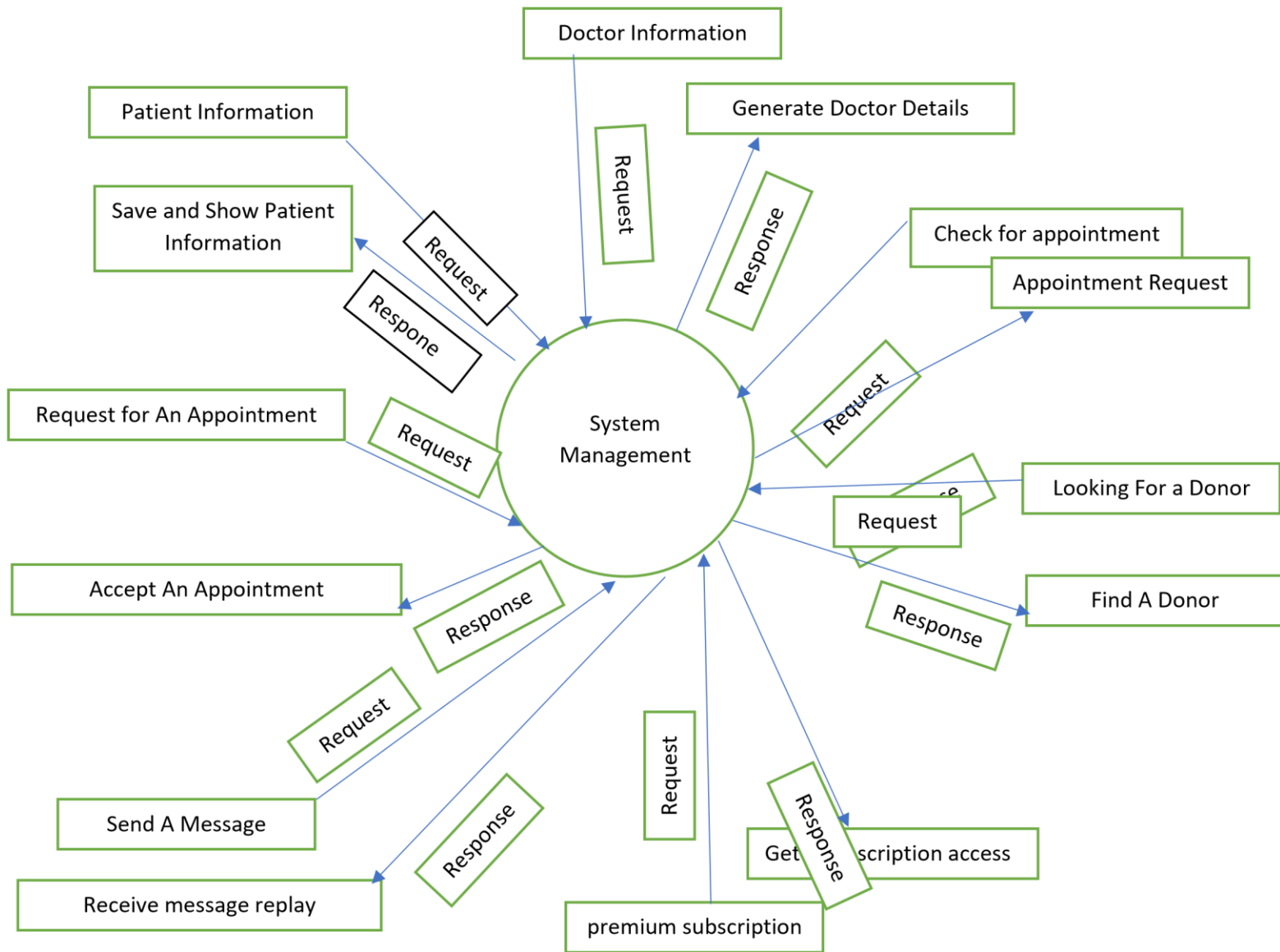


Figure 5.3: Level 1 Data Flow Diagram for Doctor and Patient

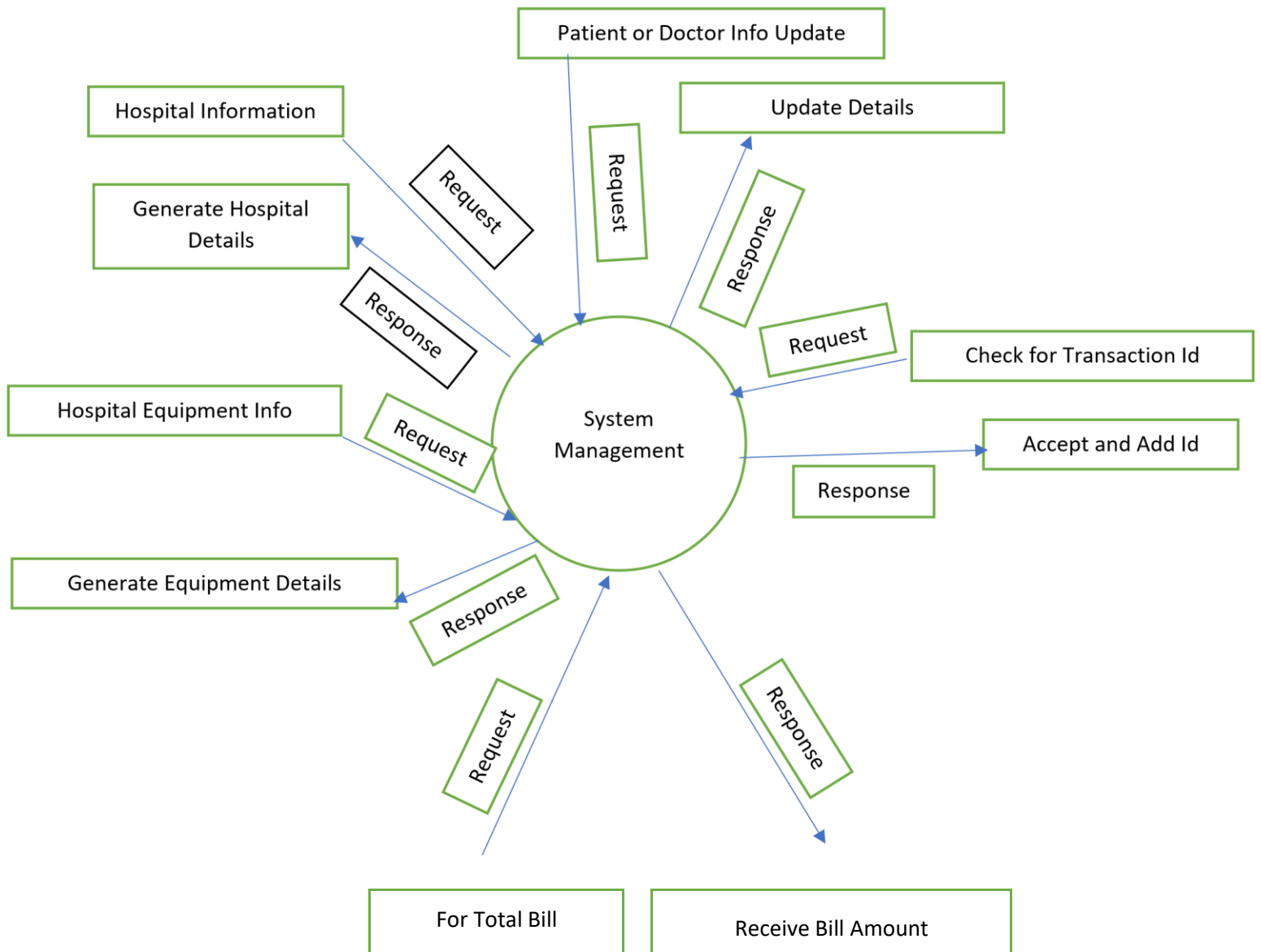


Figure 5.4: Level 1 Data Flow Diagram for admin

5.2.3 Level 2 Data Flow Diagram

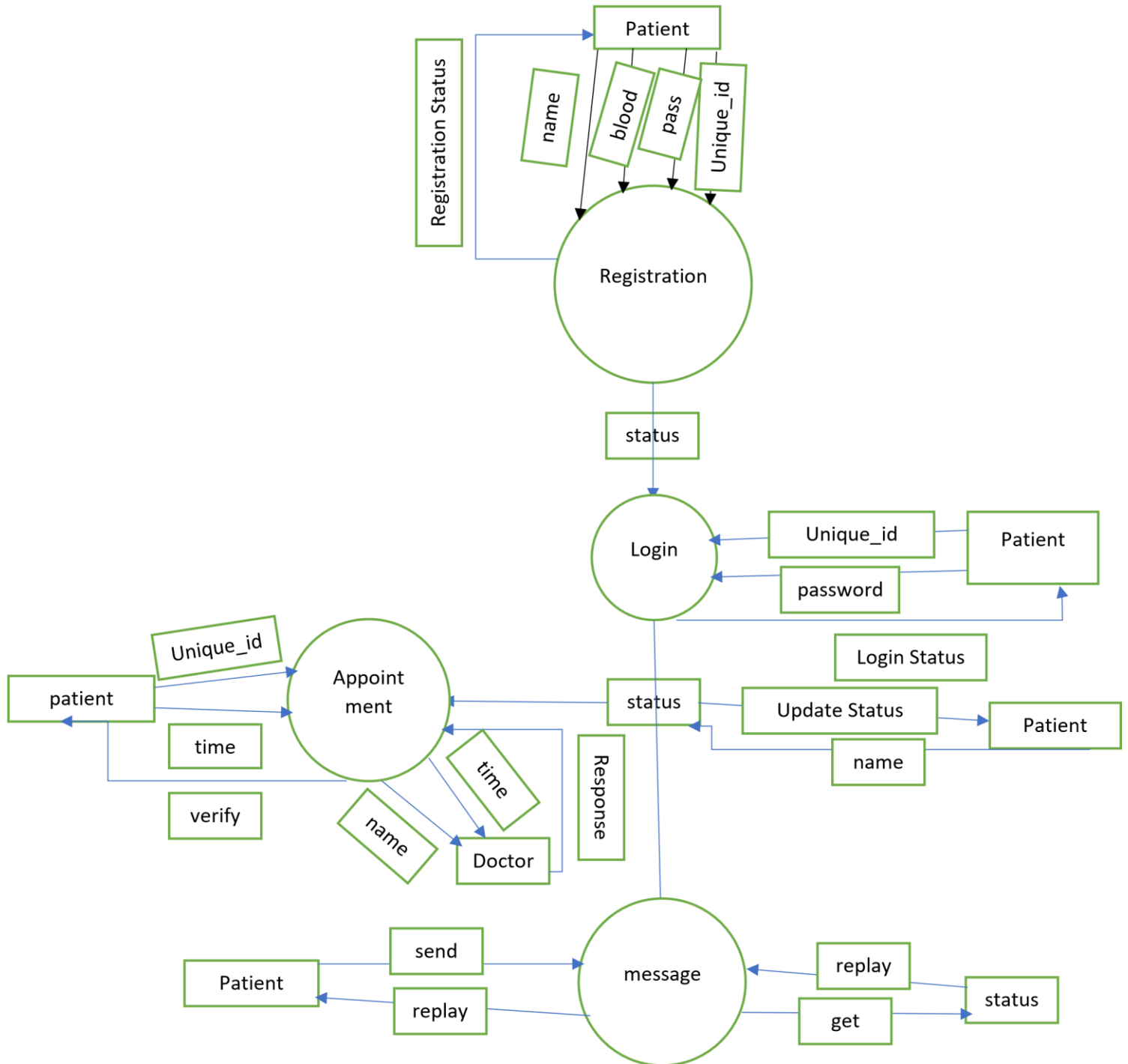


Figure 5.5: Level 2 Data Flow Diagram for patient

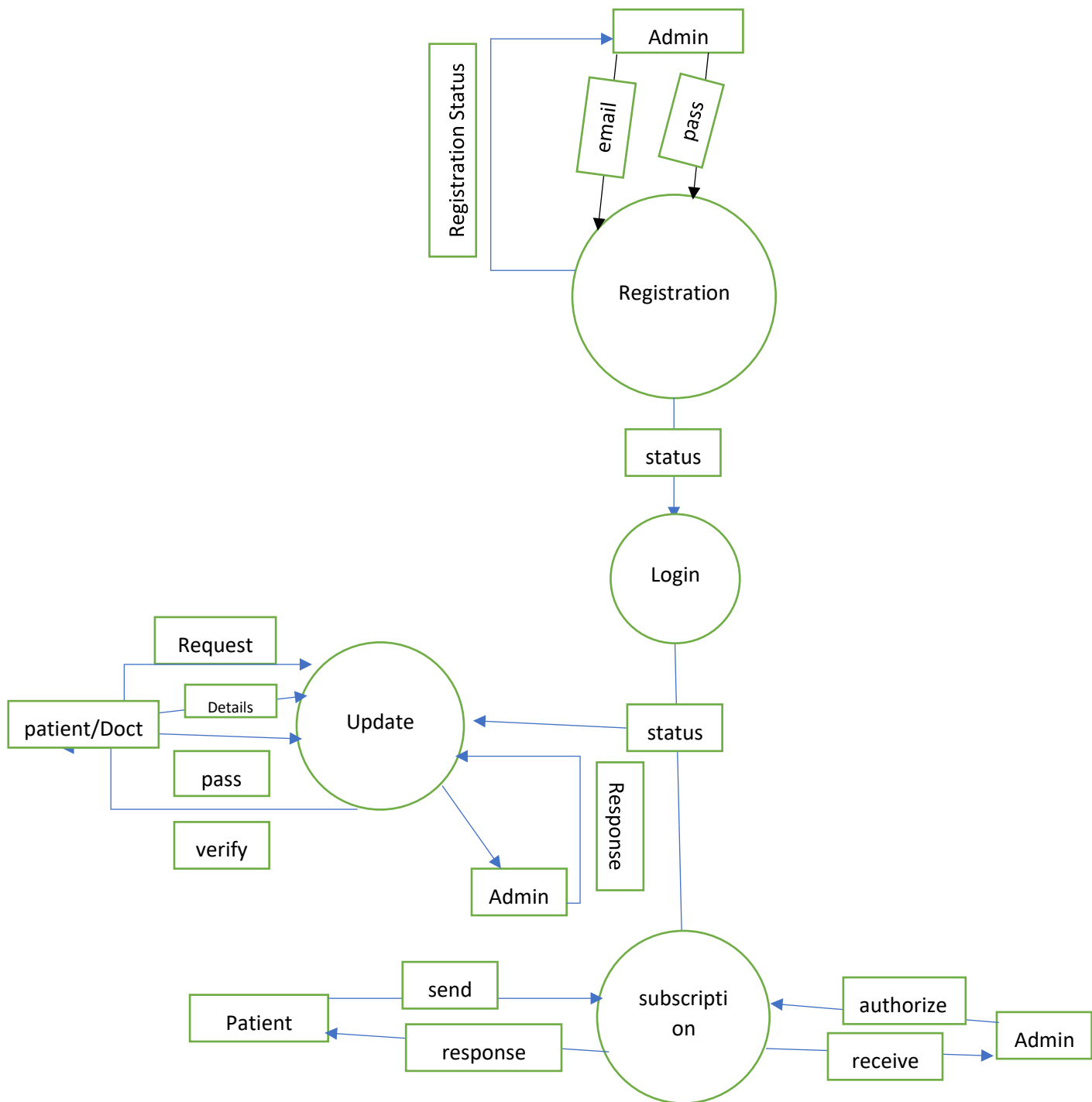


Figure 5.6: Level 2 Data Flow Diagram for admin

6 User Interface Design

The UI of the system was built using HTML, CSS and JavaScript. UI is different for Doctor, Patient and the admin.

6.1 Visitors User Interface

Anyone who comes to the web page are prompt to sign up in the system to unlock the full potential of the website. So visitors will simply see a registration form. Although for some functionality the registration is not required like to check the hospital info and the ICU/Bed vacancy information or the blood donor information.

6.2 Patient User Interface

To unlock more functionality of the web page one must register to the system. That's why the first page one will come and see will be the registration page for patient. The web application shares the same header and footer section across all of its pages. The header serves some functionality depending on whether one is logged in or not.

6.2.1 Header

Header section contains the logo, a link to quickly jump to the homepage, administration options for hospital admins and services such as blood bank features.



Figure 6.1: Header section of the web-application

6.2.1.1 Administration option of the header

This section contains the links to take the admin of the hospitals to their admin page to update or insert new data related to their hospitals.

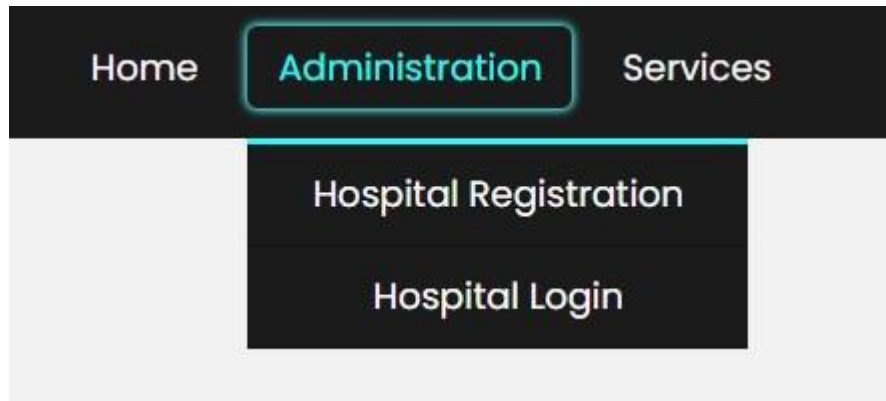


Figure 6.2: Administration option in the header

6.2.1.2 Services

This section contains the links to see the blood donor lists, a link if someone wants to register as a donor, links to hospital profile and a “More +” button for more functionality to its premium users or the user who has the membership access.

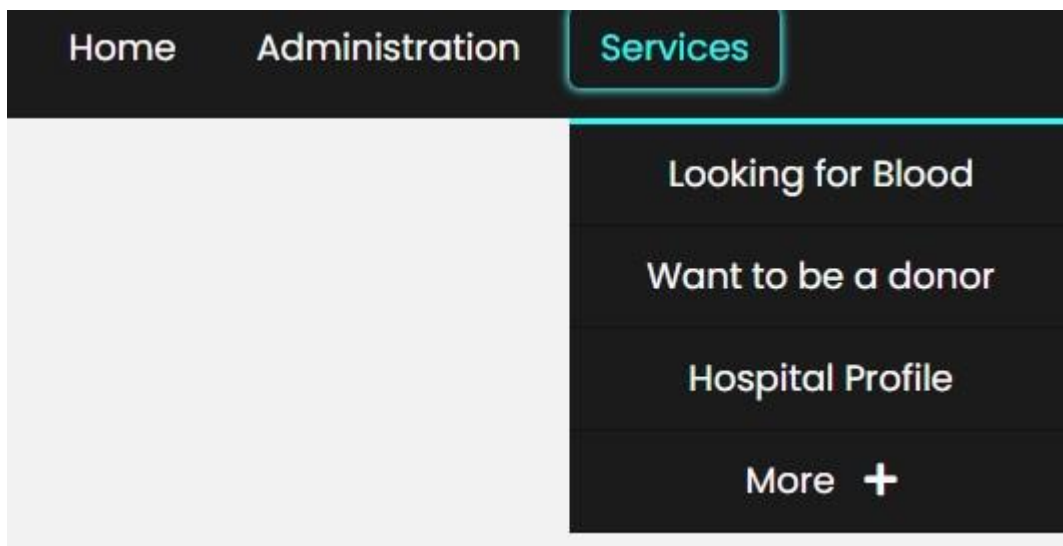


Figure 6.3: Services option in the header

6.2.2 Footer

Like the header section the footer section is also shared across all the pages of the web-application. In the footer section we talked about what the web application is about and about the developers and address of the organization.



Figure 6.4: Footer Section

6.2.3 Patient Sign Up

In the user as a patient registration or sign up section the patient will have a form to fill up. This page also contains link of patient login if someone already have an account and links if someone wants to register or login as a doctor.

Signup as Patient

First Name

Last Name

First Name


Last Name

Email Address

Enter Your Email

Address

Enter Your Address



Phone Number

Enter Your Phone Number

Age

Enter Your Age

Blood Group

Enter Your Blood Group



Gender

Select an option

▼

Password

Enter new Password



Select Image

Choose File

No file chosen

Sign Up

Already signed up? Login now

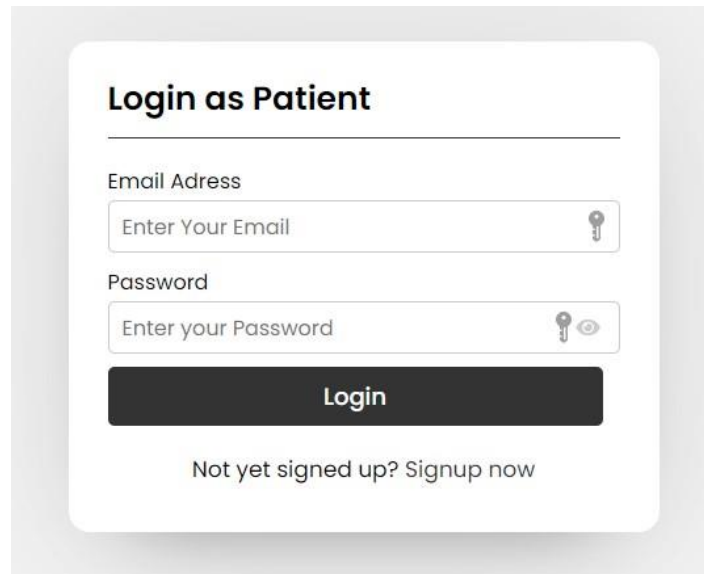
Signup as Doctor?

Login as Doctor

Figure 6.5: Patient Sign Up

6.2.4 Patient Login

If a user already has an account then this section is for him. This page also contains if someone accidentally press the login link and now want to register. Besides if anyone wants to access different page directly without logging in the web application redirects him to this login page.

A screenshot of a web form titled "Login as Patient". The form is white with rounded corners and a subtle shadow, set against a light gray background. It contains two input fields: "Email Address" with a placeholder "Enter Your Email" and a key icon, and "Password" with a placeholder "Enter your Password", a key icon, and an eye icon for toggling visibility. Below the fields is a dark gray "Login" button. At the bottom, there is a link that says "Not yet signed up? Signup now".

Login as Patient

Email Address
Enter Your Email

Password
Enter your Password

Login

Not yet signed up? Signup now

Figure 6.6: Patient Login

6.2.5 Homepage after Patient Login

Here we wanted to keep things as simple as possible. This page contains only three links along with a button to logout anytime. One to see the available doctor list and their profiles. One to directly go to the inbox where he will see all the doctors he has previously talked with. And the last one with the links to see all the appointments he has made with the doctors along with their details. Besides on logging in the user now can use some extra functionality from the header. Now the "More +" button is activated. And will see the dropdown list of the button.

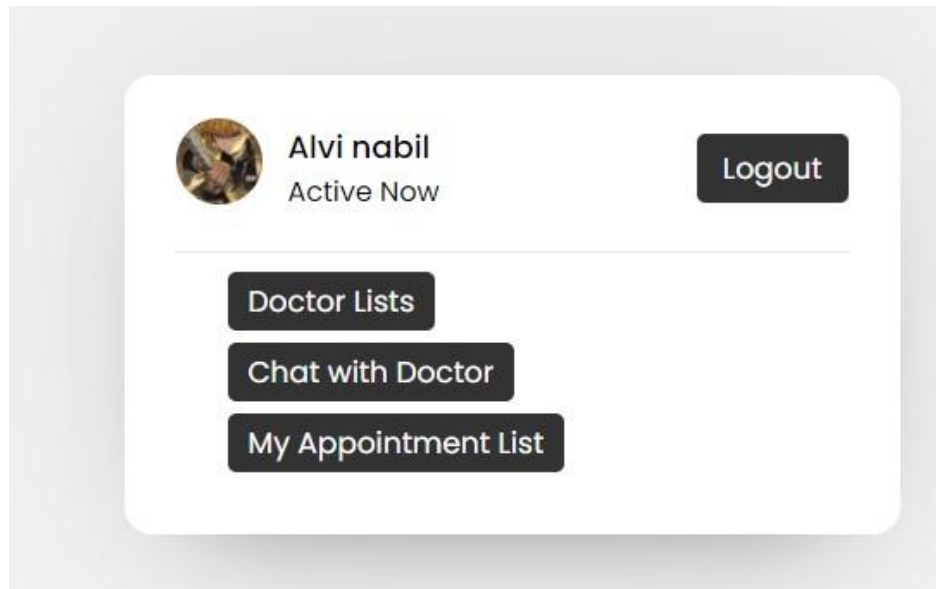


Figure 6.8: Patient Login

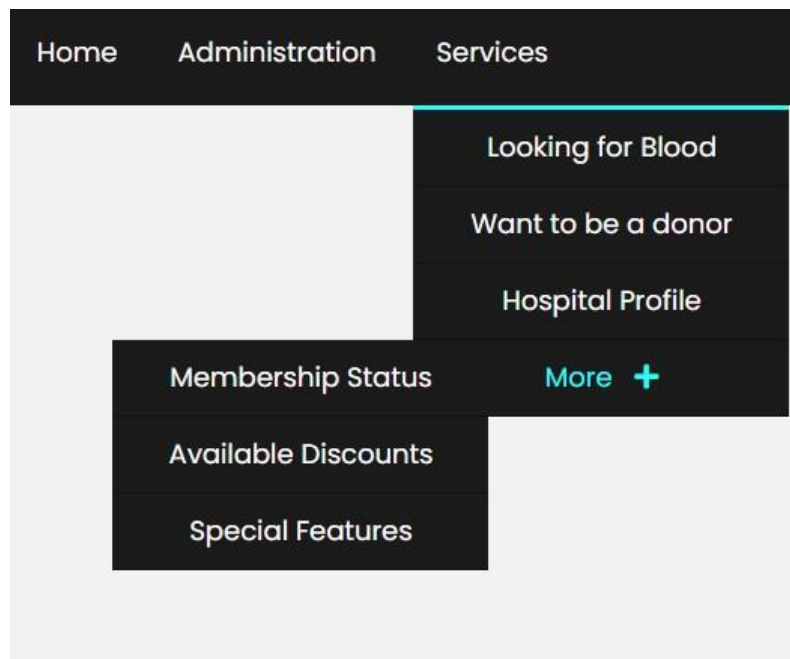


Figure 6.7: Header after patient login

6.2.6 Doctor Lists

Here the user will see all the doctors and their details along with their online status who have registered in our system.

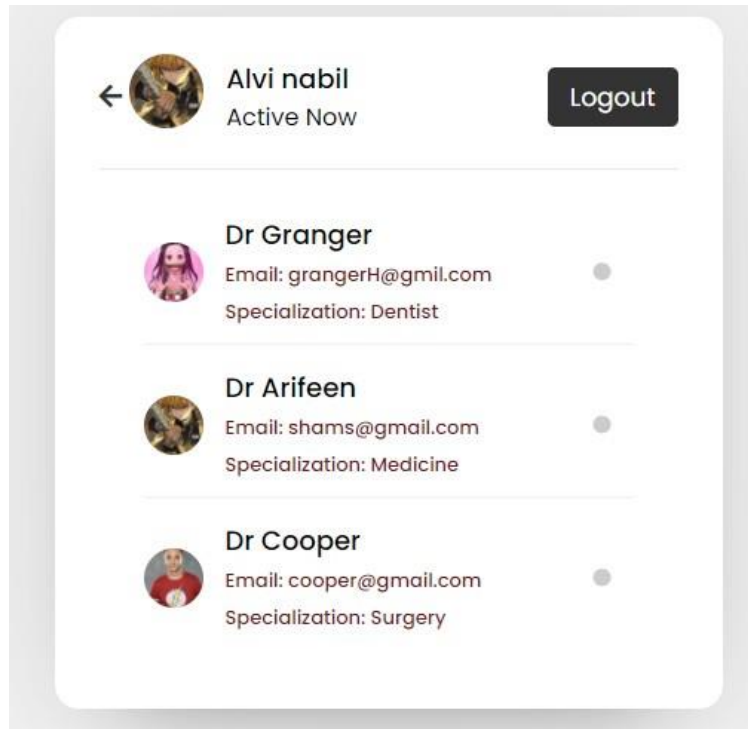


Figure 6.9: Doctor list

6.2.7 Doctor Profile

Upon clicking one of the links on the doctor list the user will be taken to the doctor profile page. Here the user will see all the information of the doctor along with two buttons for messaging with him and setting appointment with the doctor.

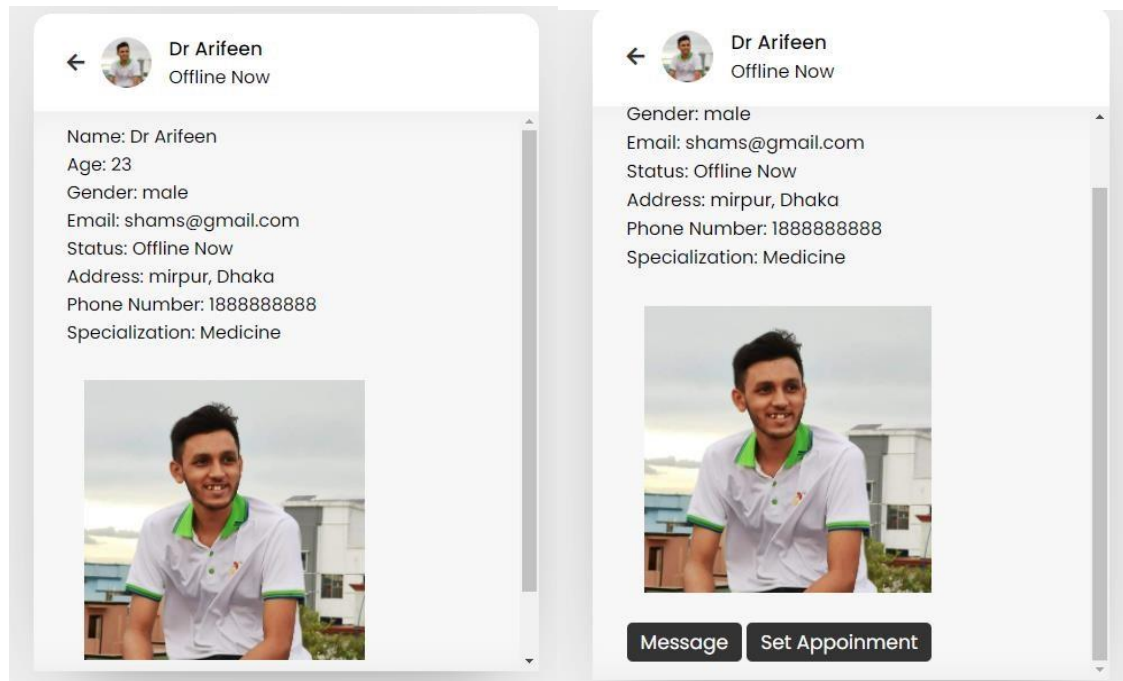


Figure 6.10: Doctor Profile

6.2.8 Message Section with the Doctor

On clicking the message button the user will be taken to the message section with the doctor here the user can send or receive messages.

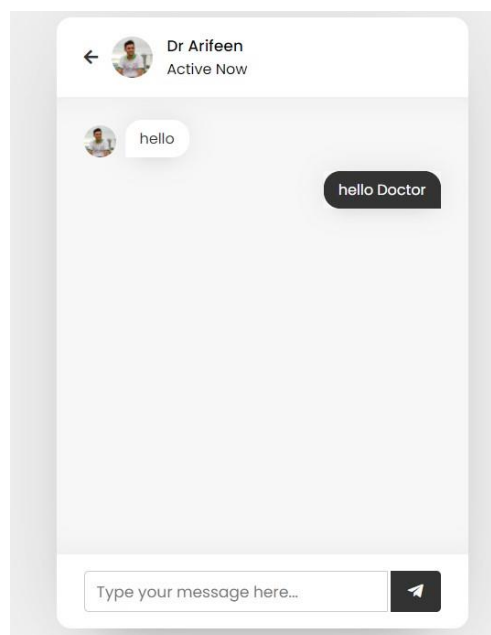


Figure 6.11: Messaging with the doctor

6.2.9 Inbox

In the inbox section the user will see all the doctor and the last message they have sent or received from that doctor.

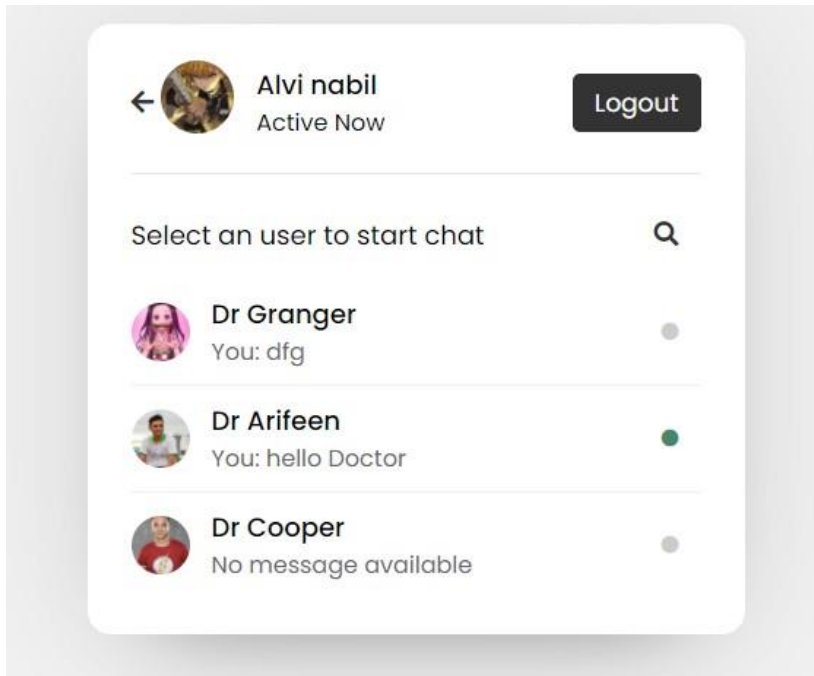
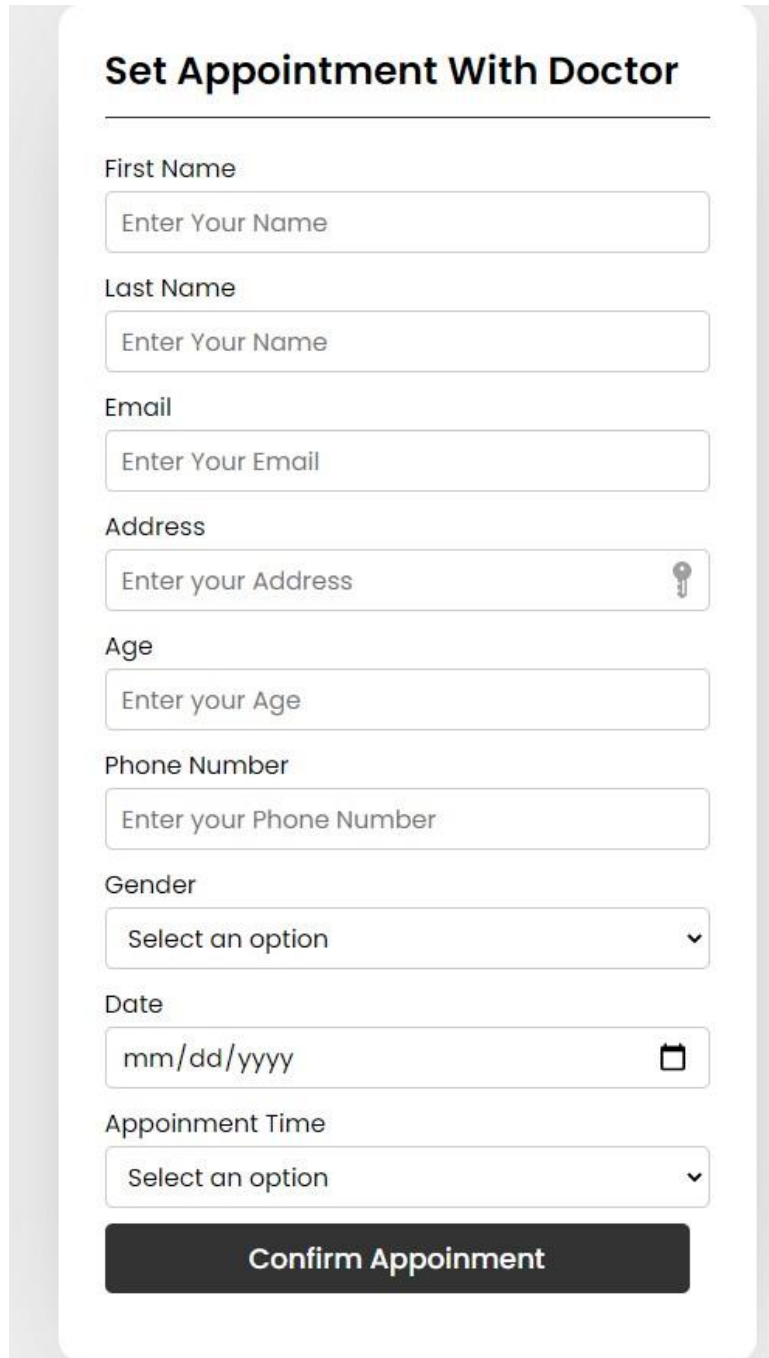


Figure 6.12: Inbox of the patient user

6.2.10 Appointment Set

On clicking the “Set Appointment” button on the doctor profile the user will be taken to another page where he will have to fill up a form to set the appointment date and time with other additional information with the doctor.

The image shows a mobile application interface for setting an appointment. It features a white card with rounded corners on a light gray background. The card has a title 'Set Appointment With Doctor' in bold black text, followed by a horizontal line. Below the line are several form fields: 'First Name' and 'Last Name' (both with 'Enter Your Name' placeholder), 'Email' (with 'Enter Your Email' placeholder), 'Address' (with 'Enter your Address' placeholder and a key icon), 'Age' (with 'Enter your Age' placeholder), 'Phone Number' (with 'Enter your Phone Number' placeholder), 'Gender' (a dropdown menu with 'Select an option' and a downward arrow), 'Date' (a date picker with 'mm/dd/yyyy' placeholder and a calendar icon), and 'Appointment Time' (a dropdown menu with 'Select an option' and a downward arrow). At the bottom of the card is a dark gray button with the text 'Confirm Appoinment' in white. The card is flanked by two vertical gray bars on either side.

Set Appointment With Doctor

First Name

Last Name

Email

Address

Age

Phone Number

Gender

Select an option

Date

mm/dd/yyyy

Appointment Time

Select an option

Confirm Appoinment

Figure 6.13: Appointment form

6.2.11 Appointment List

On clicking the appointment list on the first page the user will be taken to the appointment list where he can see all the appointment he has set along with their details.

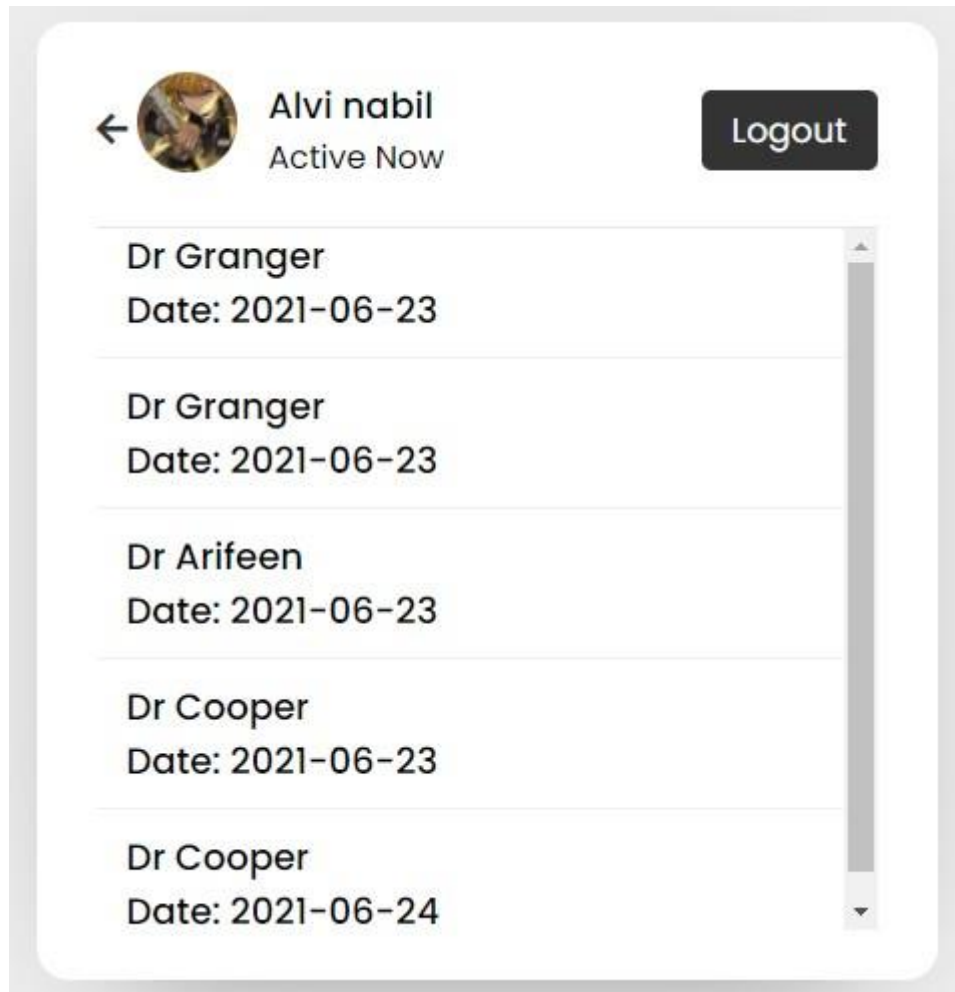


Figure 6.14: Appointment list



Appointment Details

Doctor Name:	Dr Arifeen
Doctor Email:	shams@gmail.com
Status:	Active Now
Phone Number:	1888888888
Specialization:	Medicine



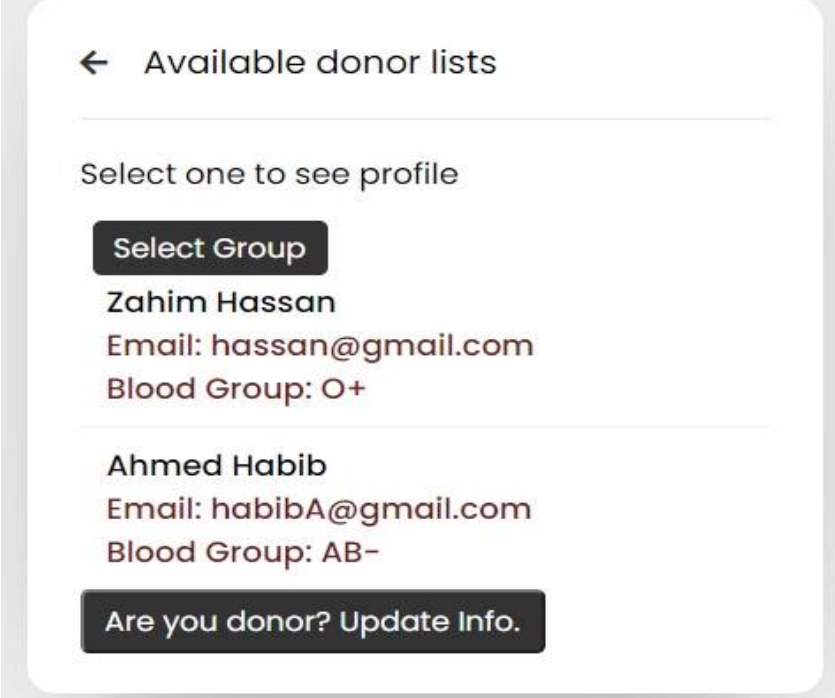
Patient Name:	Zahim Hassan
Patient Email:	hassan@gmail.com

Figure 6.15: Appointment details

6.2.12 Services

6.2.12.1 Blood Donor Lists

On clicking the “Looking for blood” link under the services the user will be taken to a new page where he can see all the blood donor available along with their detail contact information and there is also a group based search to easily find the blood group the user is looking for.



← Available donor lists

Select one to see profile

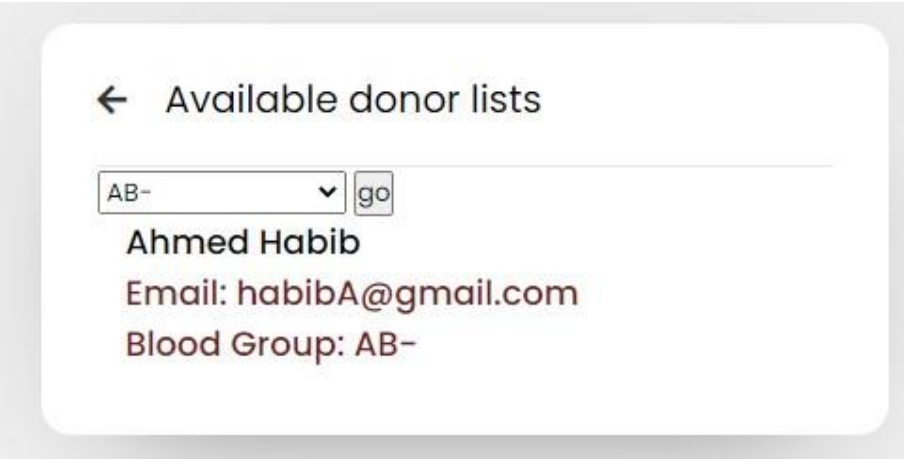
Select Group

Zahim Hassan
Email: hassan@gmail.com
Blood Group: O+

Ahmed Habib
Email: habibA@gmail.com
Blood Group: AB-

Are you donor? Update Info.

Figure 6.16: Donor List



← Available donor lists

AB- ▼ go

Ahmed Habib
Email: habibA@gmail.com
Blood Group: AB-

Figure 6.17: Group Based Donor List

6.2.12.2 Donor Registration

A user can also be a blood donor to help the others. In order to do that he/she will have to register in our system as a donor. The registration link he can find under the service as the “Want to be a donor”.

On clicking the link, he will be redirected to a registration form where all his information is needed as a donor.

Fill up the following form

First Name

Enter Your Name

Last Name

Enter Your Name

Blood Group

Enter Your Email

Email

Enter Your Email

Password

Enter new Password

Address

Enter your Address

Phone Number

Enter your Phone Number

Age

Enter your Age

Gender

Select an option

When did you donate blood last time

mm/dd/yyyy

Save Information

Figure 6.18: Donor Registration

A donor can also update his info after logging into his donor account from the donor list.

6.2.12.3 “More +” features for premium Members

After registration all the users will be normal users. To access some of the special features one has to activate the membership subscription. Without that normal users can’t access those features.

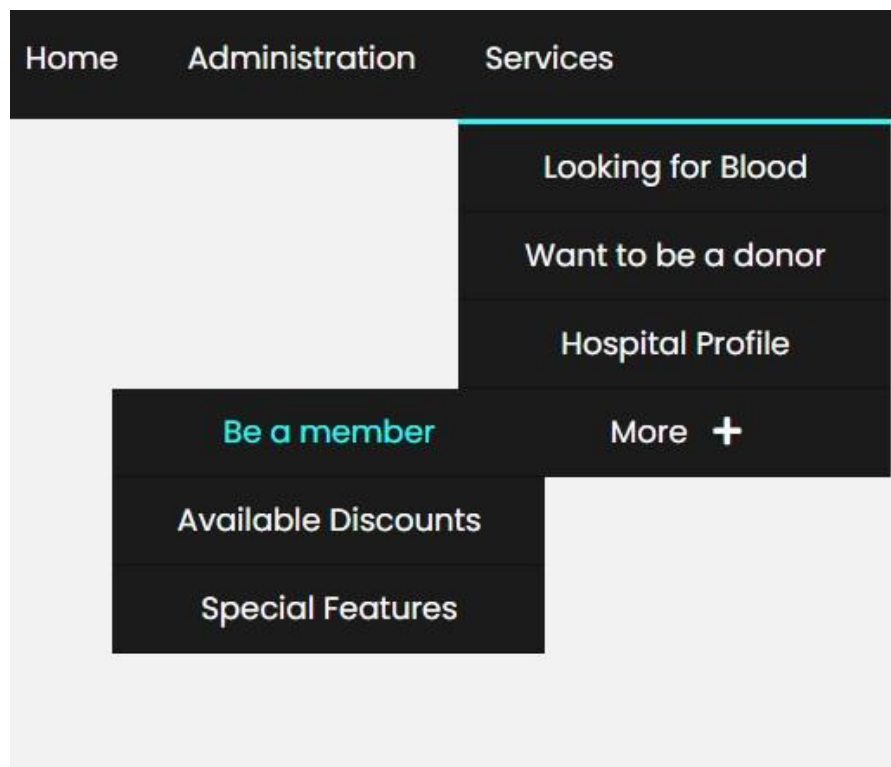
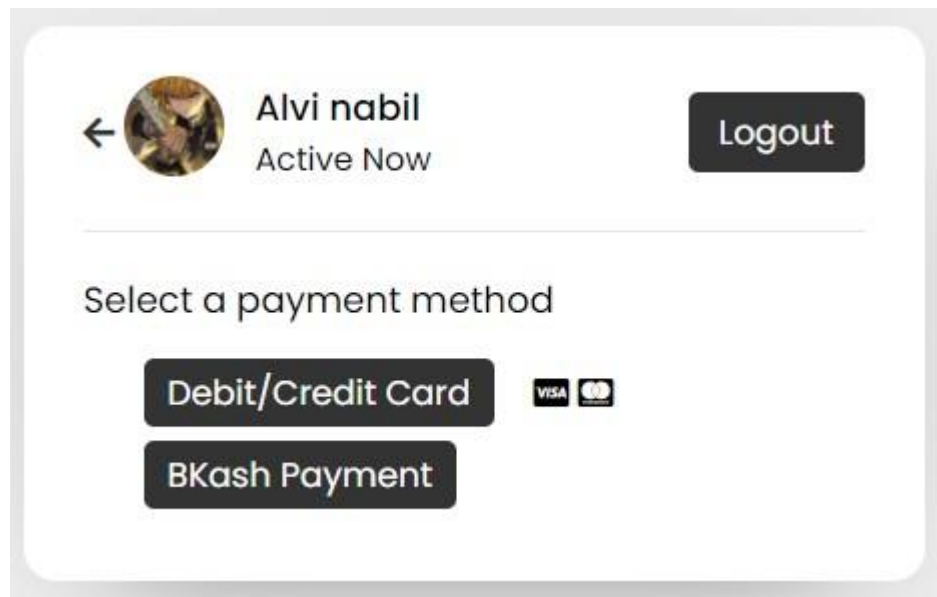



Figure 6.19: More features option before being a member

Without the subscription the “Available Discounts” and “Special Features” option will be locked. On clicking the “Be a member” the user will be taken to a “Payment” page to activate the subscription.



We have included two payment method. One is through “VISA/Mastercard” and the other is through the “BKash”. In both case the users must fill up some form to initiate the payment process. At the end the payment will be confirmed by the admin on checking Transaction ID of the payment and upon that the account will be made premium by the admin side.



This screenshot shows a user interface for selecting a payment method. At the top, there is a user profile section with a back arrow, a circular profile picture, the name 'Alvi nabil', and the status 'Active Now'. To the right of this is a 'Logout' button. Below the profile section, the text 'Select a payment method' is displayed. Underneath, there are two main options: 'Debit/Credit Card' and 'BKash Payment', both in dark buttons. To the right of the 'Debit/Credit Card' button are small icons for Visa and Mastercard.

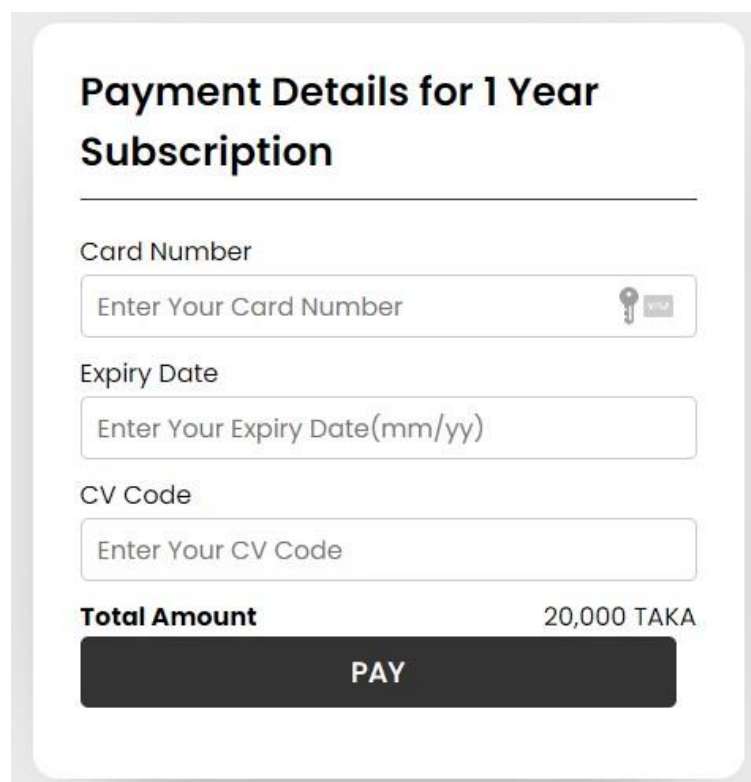
←  Alvi nabil
Active Now Logout

Select a payment method

Debit/Credit Card  


BKash Payment

Figure 6.20: Payment Methods



This screenshot shows a form titled 'Payment Details for 1 Year Subscription'. It contains three input fields: 'Card Number' with a placeholder 'Enter Your Card Number' and a key icon, 'Expiry Date' with a placeholder 'Enter Your Expiry Date(mm/yy)', and 'CV Code' with a placeholder 'Enter Your CV Code'. Below these fields, the 'Total Amount' is displayed as '20,000 TAKA'. At the bottom, there is a large dark button labeled 'PAY'.

Payment Details for 1 Year Subscription

Card Number
 

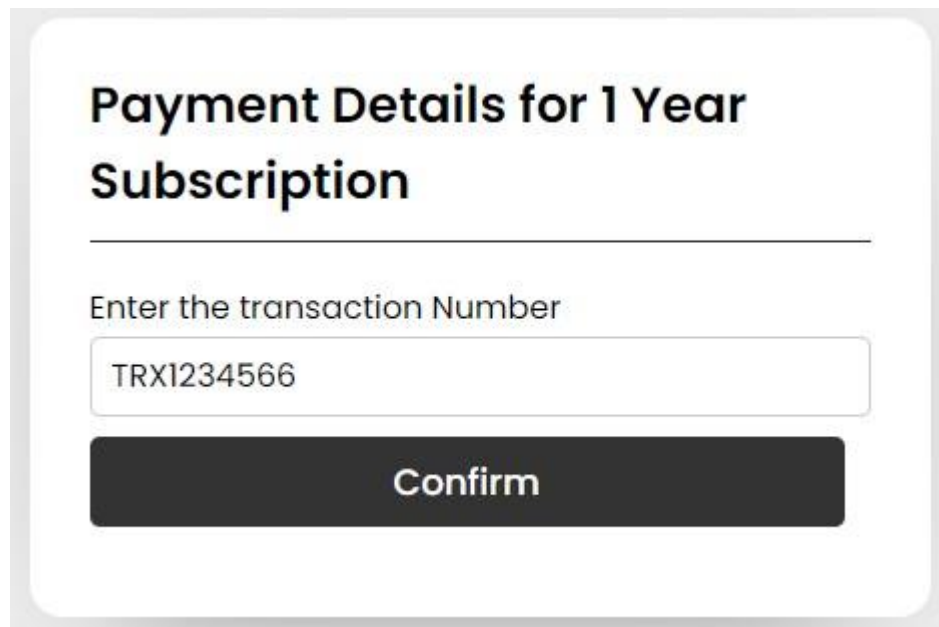
Expiry Date

CV Code

Total Amount 20,000 TAKA

PAY

Figure 6.21: Payment Through Cards



The image shows a form titled "Payment Details for 1 Year Subscription". Below the title is a horizontal line. Underneath the line is the text "Enter the transaction Number". Below this text is a text input field containing the value "TRX1234566". Below the input field is a dark grey button with the text "Confirm" in white.

Figure 6.22: Transaction Number Insert

After successfully being a member the features under the “More +” will be unlocked and now the user can see his member ship status and membership expire date.

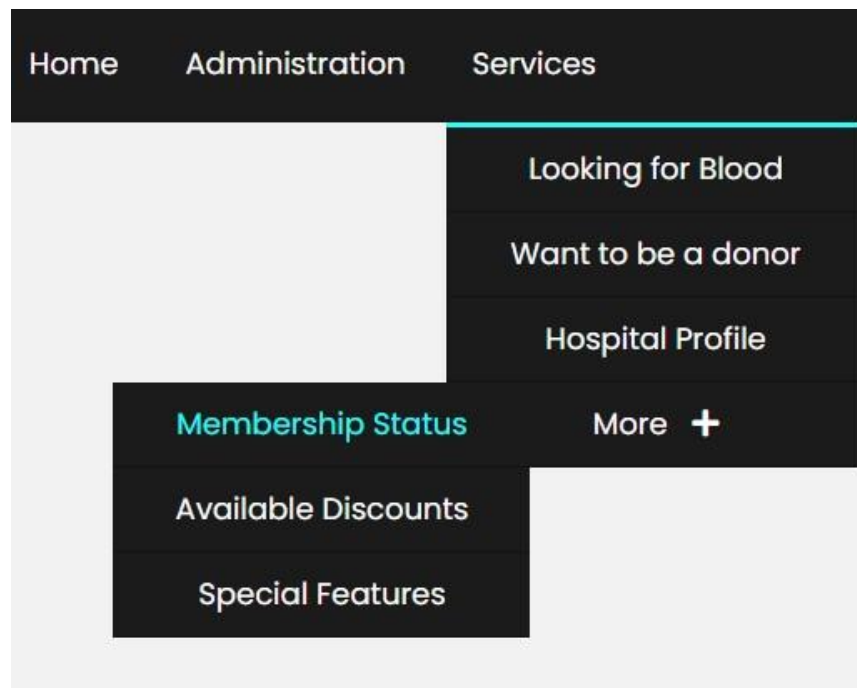


Figure 6.23: More features option after being a member

As a result the Available discounts and Special Features option will now be unlocked and the users can access them.

6.2.13.4 Hospital Profiles

On clicking this link, the user will be redirected to the hospital profile page where he will be able to see the details about the hospital and also will be able to see data about the diseases that are most commonly treated in that hospital, about the seat details and the doctor details who are associate with that hospital.

DoctorTalks											
Hospital Name	ICU Quantity	Bed Quantity	Doctor Quantity	Fill Up ICU	Fill Up Bed	Available ICU	Available Bed	Hospital Address	Statically Data	Seat Details	Doctor Info
SBMC	48	12	12	36	7	12	5	Barishal	SBMC	SBMC	Doctor Info
Barishal Medical	60	100	56	30	70	30	30	Barishal	Barishal Medical	Barishal Medical	Doctor Info

Figure 6.24: Hospital Details about ICU/Bed count

6.2.13 User Profile and Update

Upon clicking the profile image from anywhere of the webpage the user will be redirected to the My Profile page where he'll be able to see his details. Under his details there is an edit option where he can edit his profile.

My Profile

First Name Last Name

Alvi

nabil

Email Address

billie@gmail.com

Address

Barishal

Phone Number

-882

Age

12

Gender

male



Edit Profile

Figure 6.25: My Profile

Edit Profile

First Name

Alvi

Last Name

nabil

Email Address

billie@gmail.com

Address

Barishal



Phone Number

-882

Gender

Select an option



Age

12

Password

....



Save

Figure 6.26: Edit Profile

6.3 Doctor User Interface

6.3.1 Doctor Sign UP/Login

Doctor Sign Up/Login is almost the same as patient. But both of them are maintained in different database in the backend.

Signup as Doctor

First Name

Last Name

First Name

Last Name

Email Address

Enter Your Email

Adress

Enter Your Address

Phone Number

Enter Your Phonenumber

Specialization

Enter Your Specialization

Age

Enter Your Age

Password

Enter new Password

Select Image

Choose File

No file chosen

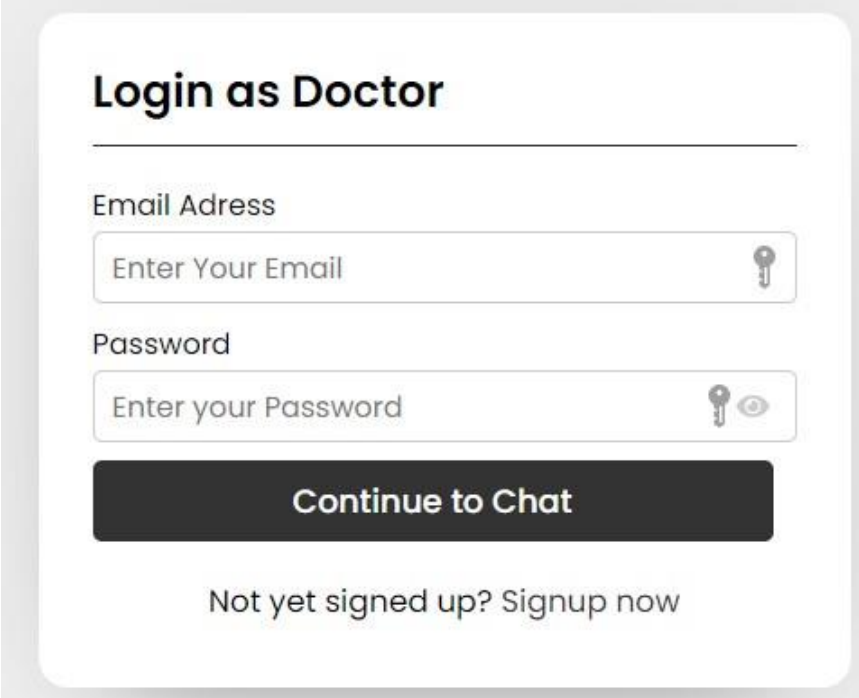
Continue to Chat

Already signed up? Login now

Signup as Patient?

Login as Patient

Figure 6.27: Doctor Signup

A login form titled "Login as Doctor" with a horizontal line below the title. It contains two input fields: "Email Address" with the placeholder text "Enter Your Email" and a key icon, and "Password" with the placeholder text "Enter your Password", a key icon, and an eye icon. Below the fields is a dark button labeled "Continue to Chat". At the bottom, there is a link that says "Not yet signed up? Signup now".

Login as Doctor

Email Address

Enter Your Email

Password

Enter your Password

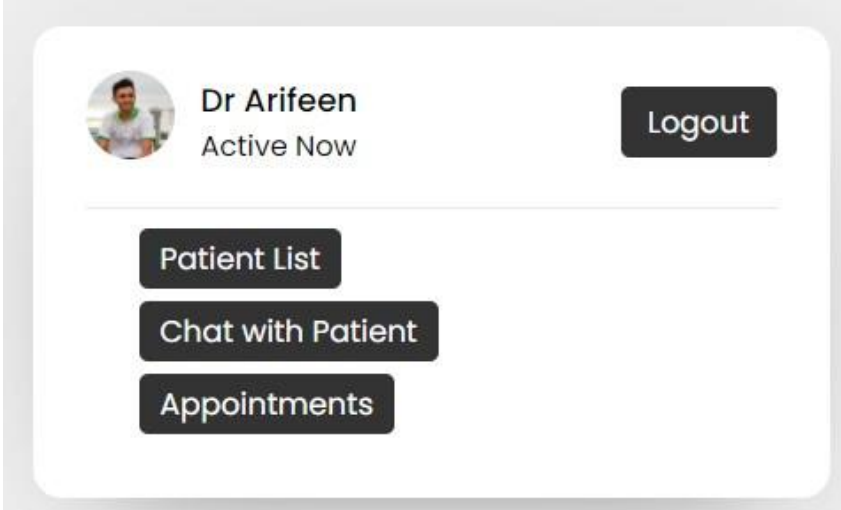
Continue to Chat


Not yet signed up? Signup now

Figure 6.28: Doctor Login

6.3.2 Doctor First Page

On the first page the doctor will see three links along with a logout button. One is patientlists, another is inbox and the last one is appointments.

A dashboard for a doctor named Dr. Arifeen, who is "Active Now". It features a circular profile picture, a "Logout" button, and three stacked buttons: "Patient List", "Chat with Patient", and "Appointments".

 **Dr Arifeen**
Active Now

Logout

Patient List

Chat with Patient

Appointments

Figure 6.29: Doctor Homepage

6.3.3 Patient List

Here doctor will see all the patient along with their details.

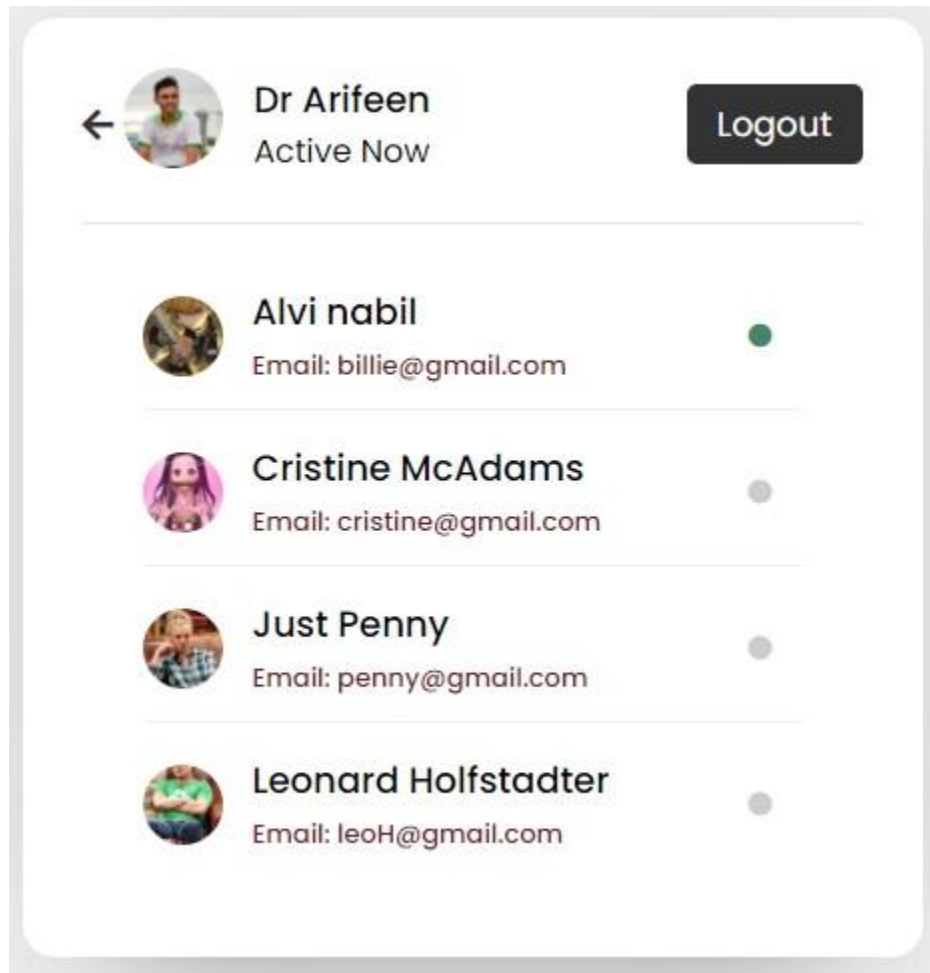


Figure 6.30: Patient List

6.3.4 Appointments

On appointments the doctor will see all the appointments he has along with a feature to check appointments of a particular date.

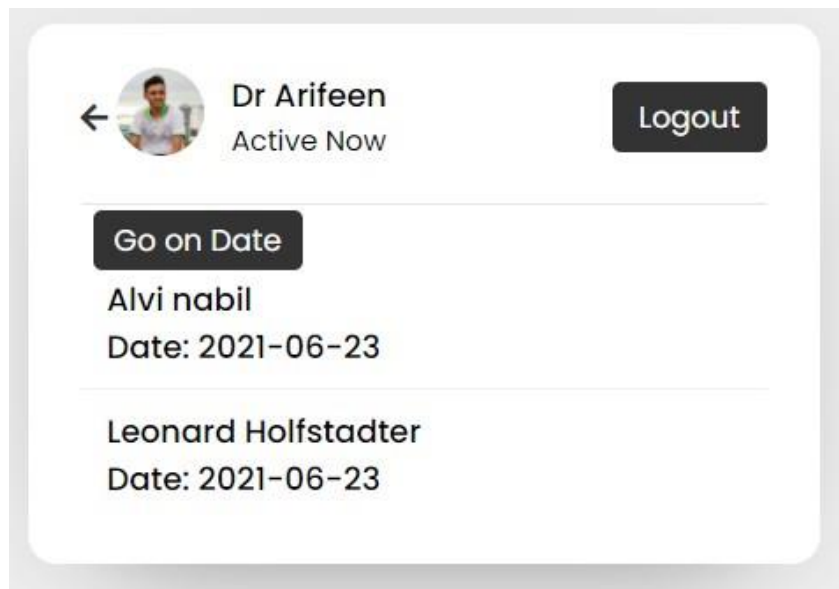


Figure 6.31: Appointment List

6.3.5 Doctor Profile and Edit

On clicking the profile picture from anywhere the doctor will be taken to his profile and under his details there will be a edit option where he can edit his profile.

My Profile

First Name

Dr

Last Name

Arifeen

Email Address

shams@gmail.com

Address

mirpur, Dhaka

Phone Number


1888888888

Age

23

Gender

male



Edit Profile

Figure 6.32: Doctor Profile

Edit Profile

First Name

Dr


Last Name

Arifeen

Email Address

shams@gmail.com


Address

mirpur, Dhaka 

Phone Number

1888888888



Gender

Select an option 

Age

23

Password

....  

Save

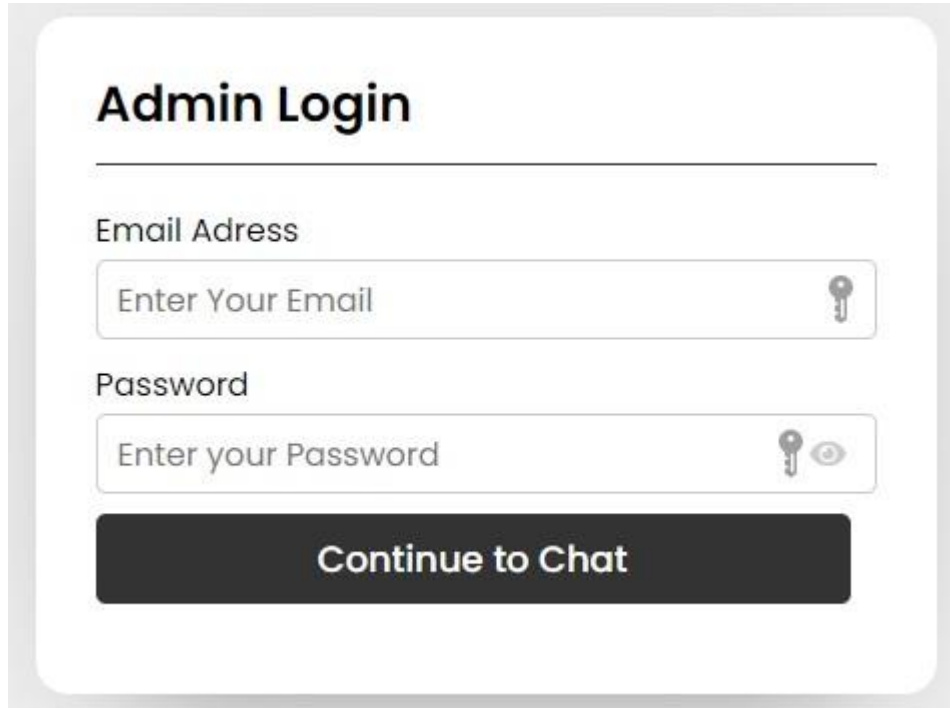
Figure 6.33: Edit Profile

6.4 Admin User Interface

Admin section is hidden from the user and doctor page. It needs to be accessed differently through admin url.

6.4.1 Admin Login

Admin login is for authorized personel. Only the admin can access all the data of the website, can monitor user activity and in need also can change them or edit them.

The image shows a web form titled "Admin Login". It features two input fields: "Email Address" with the placeholder text "Enter Your Email" and a key icon, and "Password" with the placeholder text "Enter your Password", a key icon, and an eye icon for toggling visibility. Below these fields is a dark button labeled "Continue to Chat".

Admin Login

Email Address

Enter Your Email

Password

Enter your Password

Continue to Chat

Figure 6.34: Admin Login

6.4.2 Admin Home Page

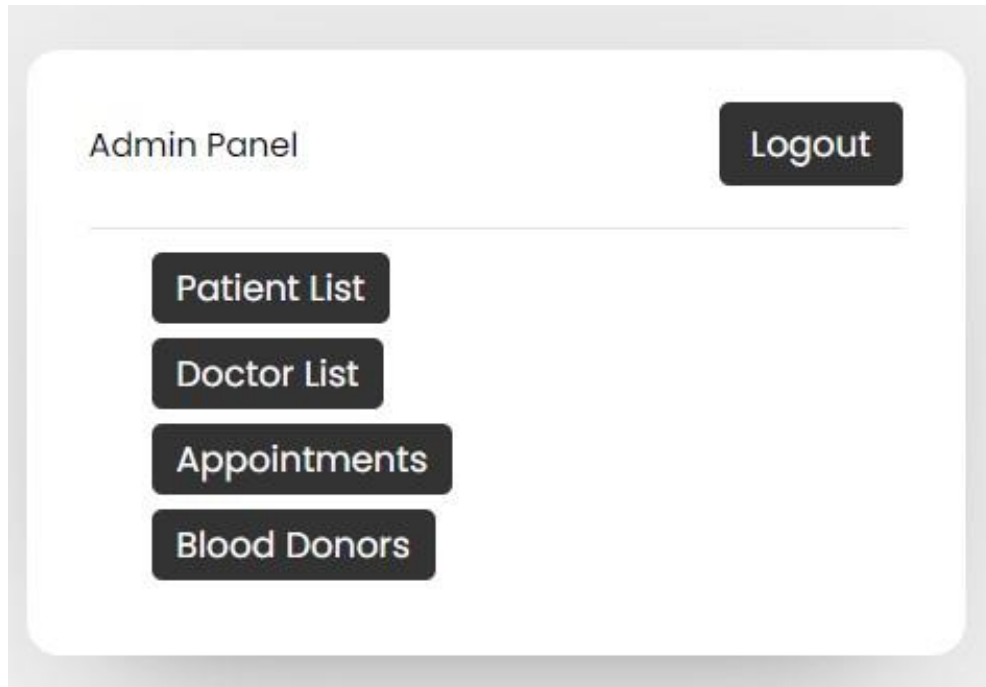


Figure 6.35: Admin Home Page

6.4.3 Edit by Admin


Admin has the privilege to see and edit all the details of patient, doctor, appointments and donor profiles.

Edit Donor Profile

First Name	Last Name
<input type="text" value="alvi"/>	<input type="text" value="Nabil"/>


Email Address

Address



Phone Number

Gender



Age

Blood Group

Last Donated On

User ID

Password



 

Figure 6.36: Admin Edit

6.5 Hospital Registration

Hospital admin can register their hospital in our system

Hospital Details

Hospital Name <input type="text" value="Enter Hospital name"/>	ICU Quantity <input type="text" value="Enter ICU Quantity"/>
Bed Quantity <input type="text" value="Enter Bed Quantity"/>	Total Doctor <input type="text" value="Enter Doctor Quantity"/>
Hospital Address <input type="text" value="Enter Hospital Address"/>	Phone Number <input type="text" value="Enter Hospital Phone Number"/>
Fill Up ICU Quantity <input type="text" value="Enter Fill Up ICU quantity"/>	Fill Up Bed Quantity <input type="text" value="Enter Fill Up Bed Quantity"/>
Hospital Password <input type="text" value="Enter Password"/>	

Register

Figure 6.37: Hospital Registration

Hospital Details

ICU Quantity	Bed Quantity
<input type="text" value="32"/>	<input type="text" value="170"/>
Total Doctor	Fill Up ICU Quantity
<input type="text" value="220"/>	<input type="text" value="13"/>
Fiil Up Bed Quantity	
<input type="text" value="49"/>	

Update

[Bill Section](#)
[Patient Infromation](#)
[Doctor Infromation](#)
[Expenses Infromation](#)
[Expenses Update Infromation](#)

Figure 6.38: Hospital Details

Here admin can bill a customer for their expenses, update information, edit and insert doctor information.

Operation Name	<input type="text"/>
Taka	<input type="text"/>
Quantity	<input type="text"/>
<input type="button" value="Add"/>	

Operation Name	Taka	Quantity	Bill	Total
----------------	------	----------	------	-------

Figure 6.39: Billing

Patient Details

Hospital Name

Dhaka Medical College

Patient Name

Enter Patient name

Age

Enter Age

Bed Number

Enter Bed Number

Consultant Doctor

Enter Doctor Name

Patient History

Enter Patient History

Phone Number

Phone Number

Admitted date

06/22/2021



Release Date

mm/dd/yyyy



Date of death

mm/dd/yyyy



Reason of Death

Enter Reason of Death

Save

Figure 6.40: Patient Info

Doctor Details

Hospital Name	Doctor Name
<input type="text" value="Dhaka Medical College"/>	<input type="text" value="Enter Doctor name"/>
Designation	Fields of work
<input type="text" value="Doctor Designation"/>	<input type="text" value="Doctor Fields of Work"/>
Working Time	
<input type="text" value="Working Time"/>	

Save

Figure 6.41: Doctor Info

Expenses Details

Hospital Name

Dhaka Medical College

Bed/ICU

Bed/ICU

Floor

Enter Floor No

Total Bed

Enter Bed Quantity

Fill Up Bed Quantity

Enter Fill Up Bed quant

Cost Per Day

Enter Cost of Per Day

Facilities

Enter The Facilites

Save

Figure 6.42: Expense Details

7 Future Plan

As our first attempt to create a whole system, this was not a complete one by any means. So this project has lot of scope to improve in future. In our thoughts, the following things can be done with our project.

- Making the system more responsive and user friendly as well as secure using a high-level framework like Django or Laravel.
- Analyze the Blood donor information to make it more accessible to the people in need.
- As we are collecting data about disease and the hospital the patient chooses for treatment we can use this data to make a prediction what the general people think about a hospital on certain disease treatment.
- Analyze the data about death rate on certain type of disease.
- Analyze the expenses details of certain hospital to others to give a prediction about pricing for the people.

8 Conclusion

The system was created with the goal of making the healthcare system more accessible to individuals of all socioeconomic classes to alleviate people's misery and corruption. As many important aspects of our problem had been overlooked at the beginning. With proper development this system could help a large number of people.

9 Bibliography

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2. <https://www.php.net/docs.php>
3. <https://devdocs.io/javascript/>

