Hospital Management System

Hospital Management System using MySQL, Php and Bootstrap

Prerequisites

1. Install XAMPP web server
2. Any Editor (Preferably VS Code or Sublime Text)
3. Any web browser with latest version

Languages and Technologies used

1. HTML5/CSS3
2. JavaScript (to create dynamically updating content)
3. Bootstrap (An HTML, CSS, and JS library)
4. XAMPP (A web server by Apache Friends)
5. Php
6. MySQL (An RDBMS that uses SQL)
7. TCPDF (to generate PDFs)

Steps to run the project in your machine

1. Download and install XAMPP in your machine
2. Clone or download the repository
3. Extract all the files and move it to the 'htdocs' folder of your XAMPP directory.
4. Start Apache and Mysql in your XAMPP control panel.
5. Open your web browser and type 'localhost/phpmyadmin'
6. In phpmyadmin page, create a new database from the left panel and name it as 'myhmsdb'
7. Import the file 'myhmsdb.sql' inside your newly created database and click ok.
8. Open a new tab and type 'localhost/foldername' in the url of your browser
9. Hurray! That's it!

SOFTWARES USED

- XAMPP was installed on the Ubuntu 19.04 machine and APACHE2 Server and MySQL were initialized. And, files were built inside opt/lampp/htdocs/myhmsp
- Sublime Text 3.2 was used as a text editor.
- Google Chrome Version 77.0.3865.90 was used to run the project (localhost/myhmsp was used as the url).

Starting Apache And MySQL in XAMPP:

The XAMPP Control Panel allows you to manually start and stop Apache and MySQL. To start Apache or MySQL manually, click the 'Start' button under 'Actions'.
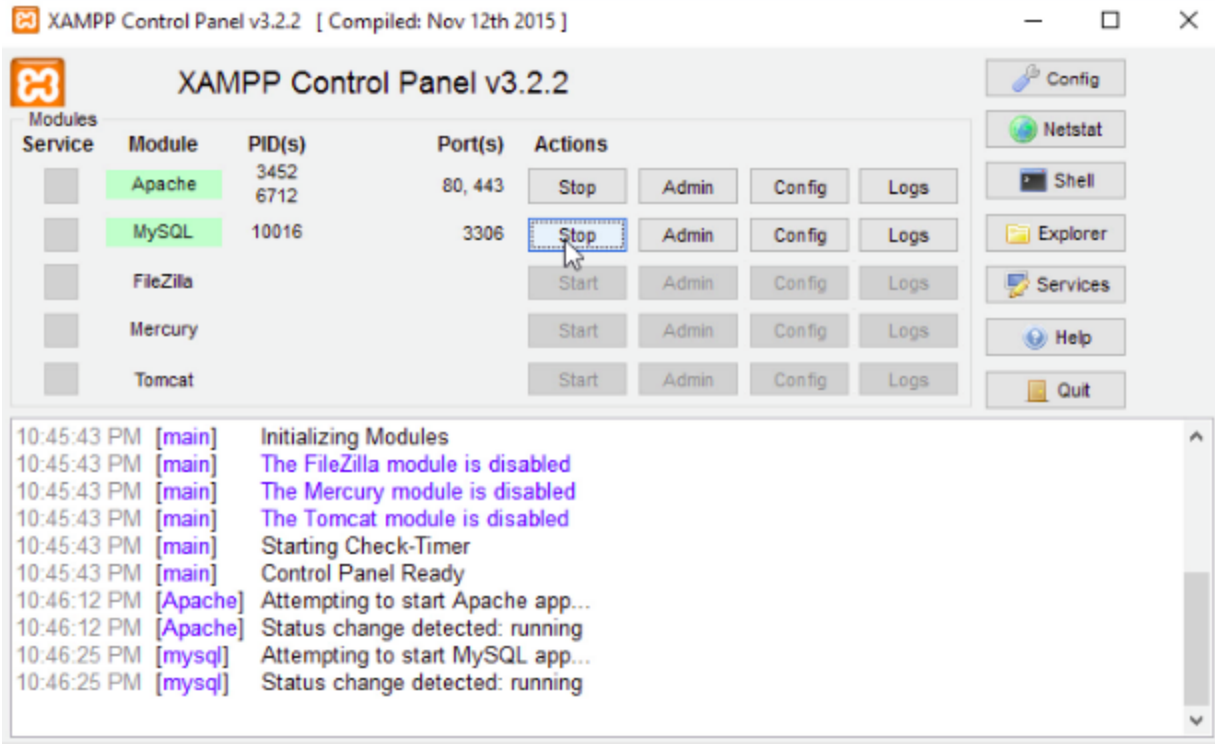
GETTING INTO THE PROJECT:

Hospital Management System in PHP and MySQL. This system has a 'Home' page from where the patient, doctor & administrator can log in into their accounts by toggling the tabs accordingly. Fig 1.1 shows the 'Home' page of our project.

Fig 1.1

'About Us' page (Fig 1.2) allows us to get some more information about the quality and the services of the hospital.
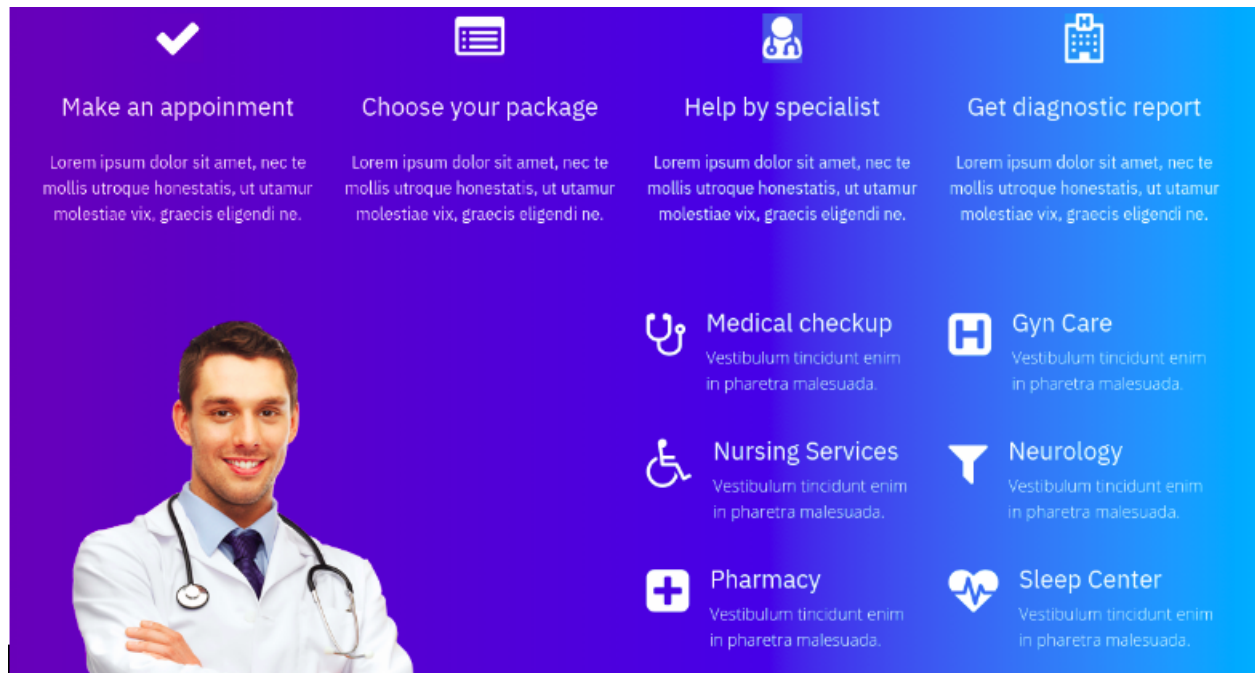

Fig 1.2

'Contact' page allows users to provide feedback or queries about the services of the hospital. Fig 1.3 shows the 'Contact' page.
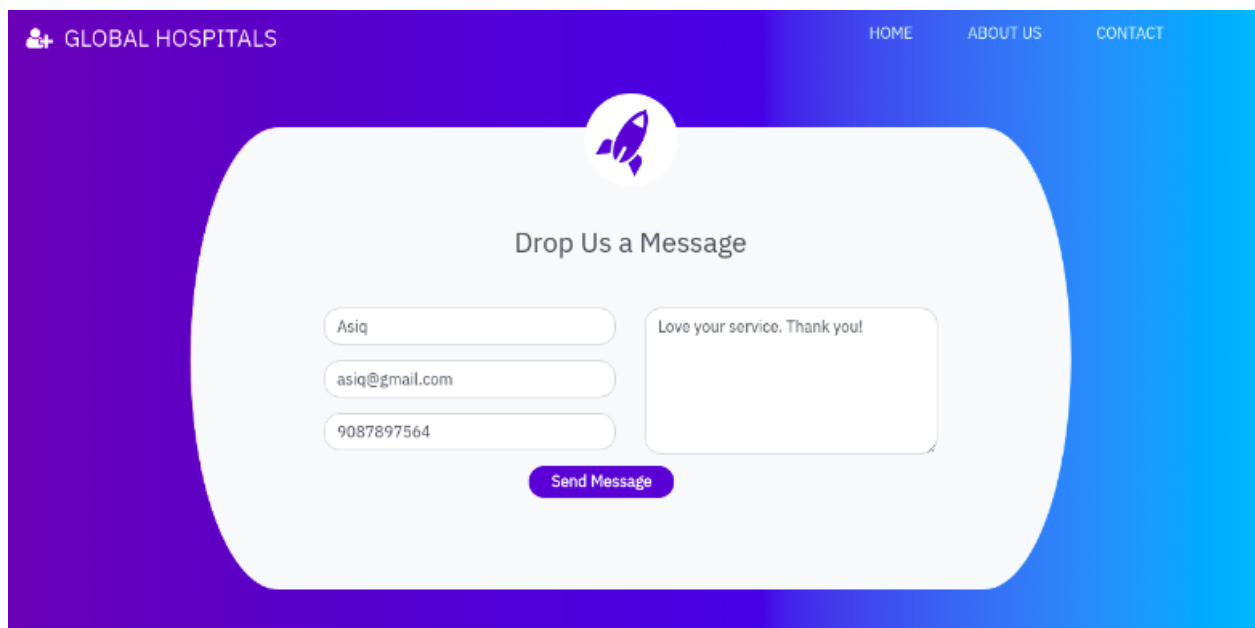

Fig 1.3

The 'Home' page consists of 3 modules:

1. Patient Module
2. Doctor Module
3. Admin Module

Patient Module:

This module allows patients to create their account, book an appointment to see a doctor and see their appointment history. The registration page(in the home page itself) asks patients to enter their First Name, Last Name, Email ID, Contact Number, Password and radio buttons to select their gender.

Fig 1.4

Once the patient has created his/her own account after clicking the 'Register' button, then he will be redirected to his/her Dashboard(Fig 1.5).
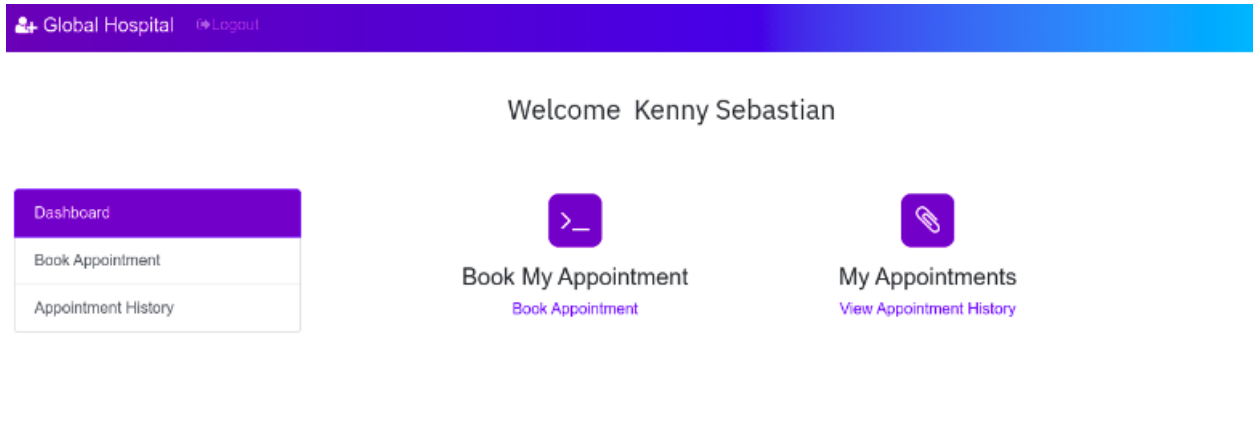
Fig 1.5

The Dashboard page allows patients to perform two operations:

1. Book his/her appointment:

Here, the patients are able to book their appointments to see a doctor. The appointment form(Fig 1.6) requires patients to select the doctor that they want to see, Date and Time that they want to meet with the doctor. The consultancy fee will be shown accordingly to the patient as it was already determined by the doctor.

Fig 1.6

After clicking on the 'Create new entry' button, the patient will receive an alert that acknowledges the successful appointment of the patient.(See Fig 1.7)
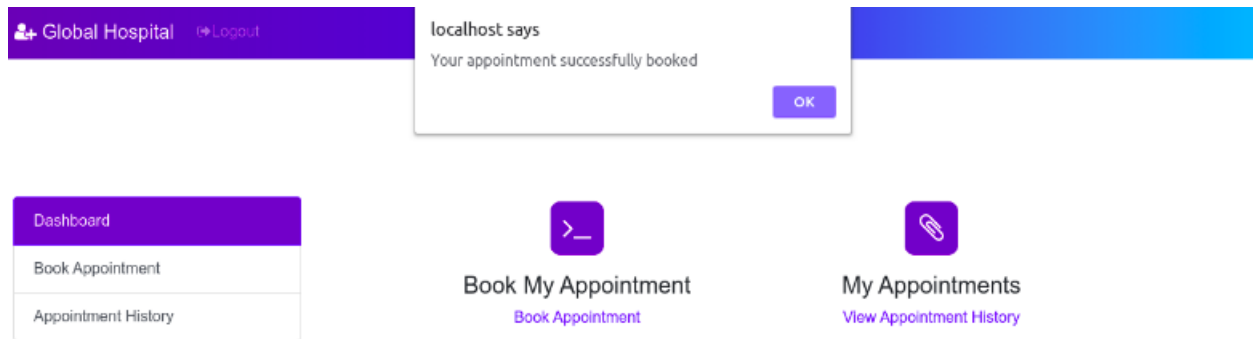
Fig 1.7

2. View patients' Appointment History:

Here, the patient can see their appointment history which contains Doctor Name, Consultancy Fee, Appointment Date and Time.(See Fig 1.8).
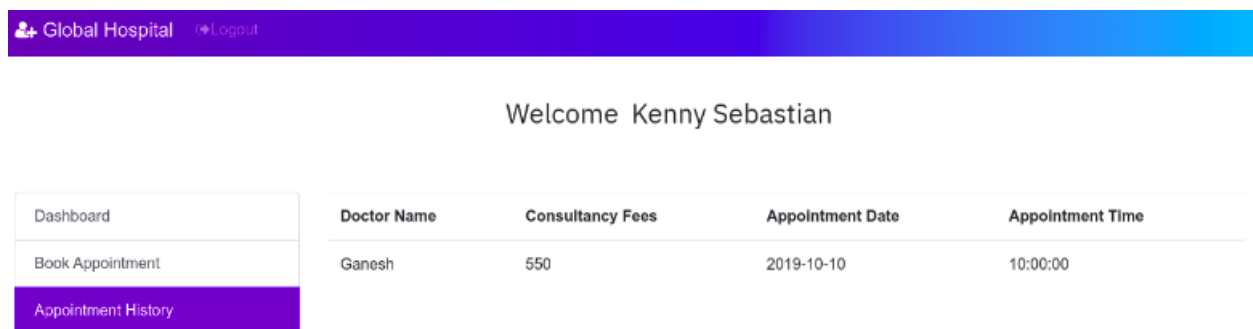
Fig 1.8

Once the patient has logged out of his account, if he wants to go into his account again, he can login his account, instead of registering his account again. Fig 1.9 shows the login page. Clicking on 'Login' button will redirect the patient to his dashboard page which we have seen earlier (Fig 1.5)
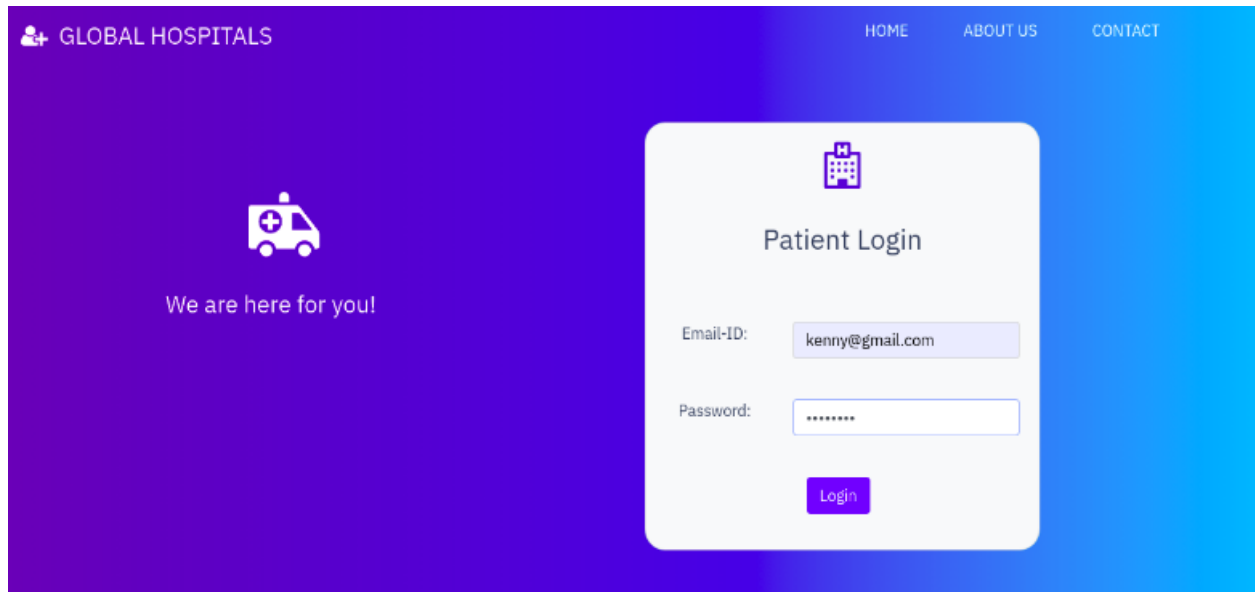
Fig 1.9

This is how the patient module works. On the whole, this module allows patients to register their account or login their account(if he/she has one), book an appointment and view his/her appointment history.

Doctor Module:

The doctors can login into their account which can be done by toggling the tab from 'Patient' to 'Doctor'. Fig 1.10 shows the login form for a doctor. Registration of a doctor account can be done only by admin. We will discuss more about this in the Admin Module.
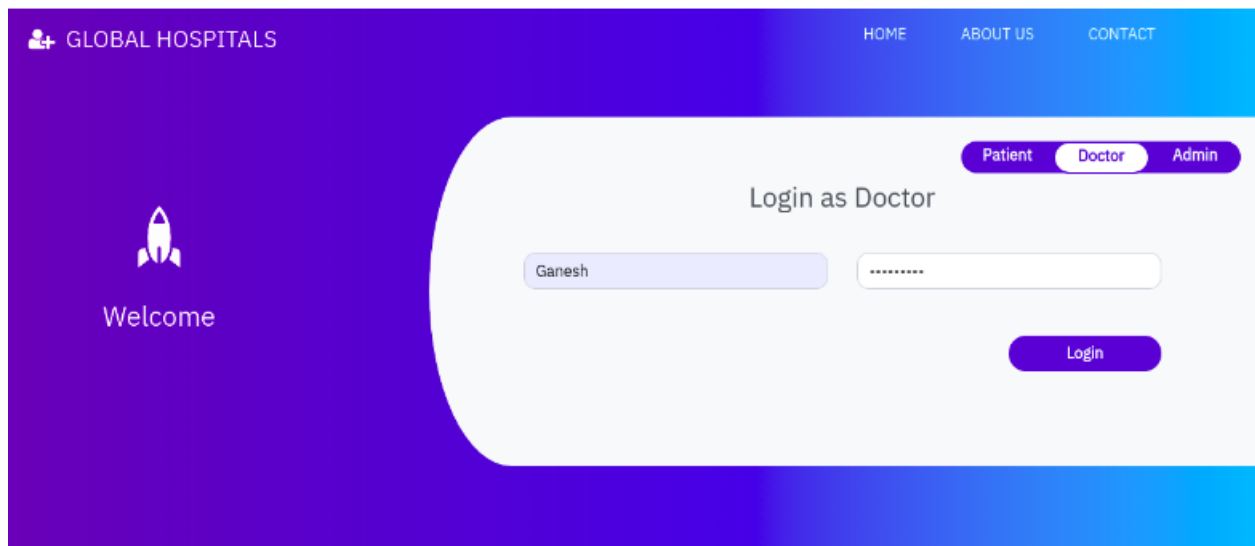
Fig 1.10

Once the doctor clicking the 'Login' button, they will be redirected to their own dashboard which is shown in Fig 1.11
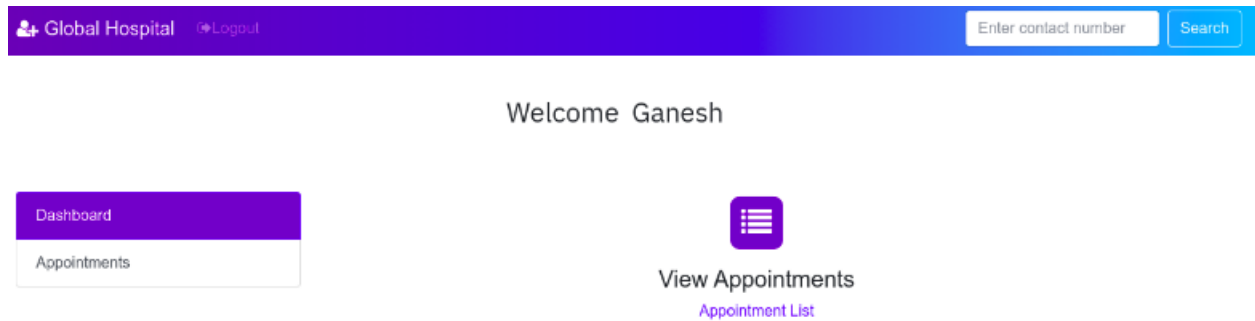
Fig 1.11

In this page, doctors are able to see their appointments which has been booked by the patients. Fig 1.12 shows the appointment of the doctor 'Ganesh' which has been booked by the patient 'Kenny Sebastian' (Fig 1.6). This means that the doctor 'Ganesh' will have an appointment with the patient 'Kenny Sebastian' on 10-10-2019 10AM.
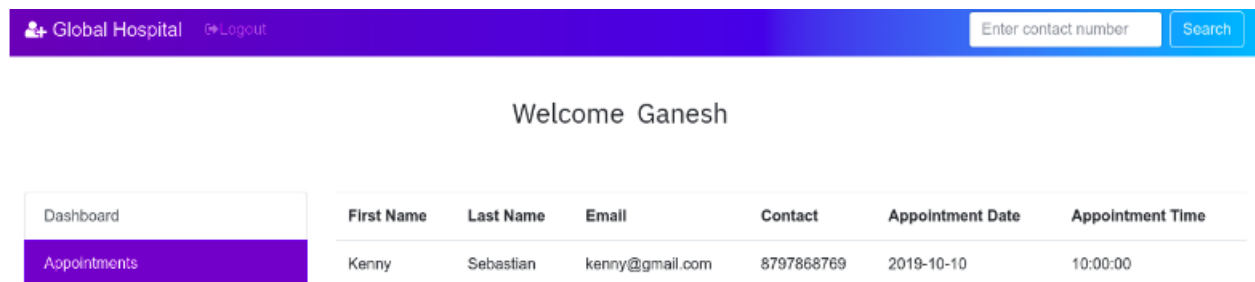
Fig 1.12

In real-time, the doctors will have thousands of appointments. It will be easier for a doctor to search for appointments in the case of more appointments. To make it easier, I have a 'Search' box in the navigation bar (See Fig 1.12) which allows doctors to search for a patient by their contact number.   Once everything is done, the doctor can logout of their account. Thus, in general, a doctor can login into his/her account, view their appointments and search for a patient. This is all about Doctor Module.

Admin Module:

This module is the heart of our project where an admin can see the list of all patients. Doctors and appointments and the feedback/queries received from the 'Contact' page. Also, the admin can add a doctor too.

Login into the admin account can be done by toggling into the admin tab of the Home page. Fig 1.13 shows the login page for admin
- username: admin
- password: admin123
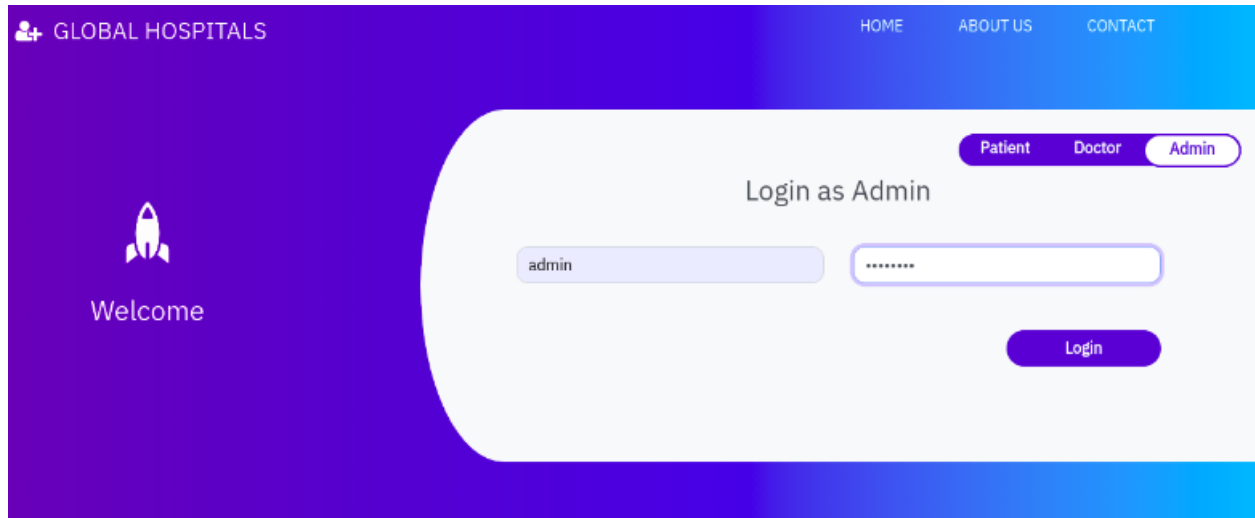
Fig 1.13

On clicking the 'Login' button, the admin will be redirected to his/her dashboard as shown in Fig 1.14.
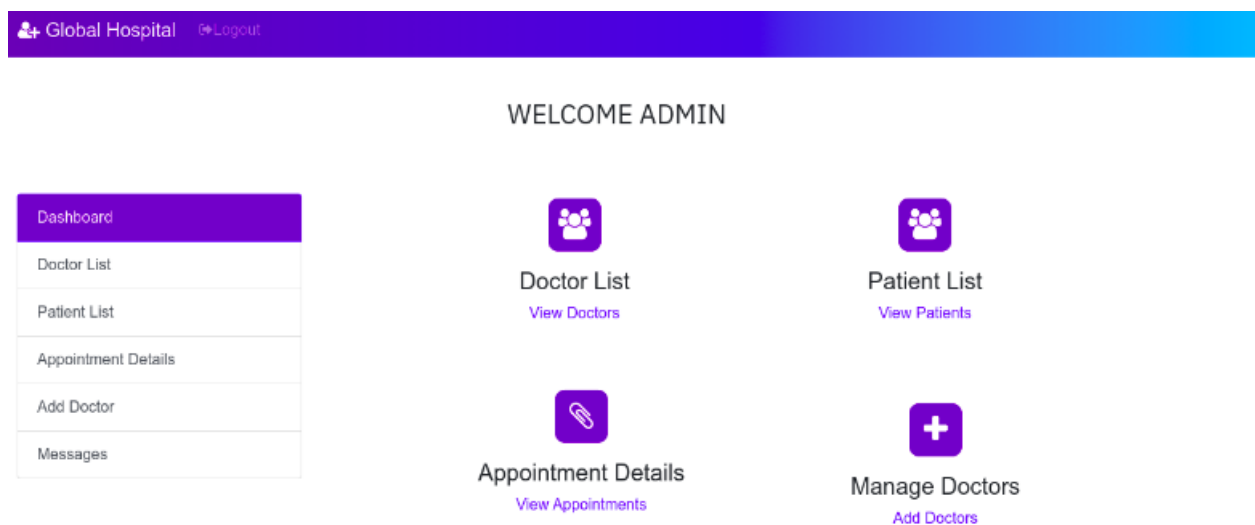
Fig 1.14

This module allows an admin to perform five major operations:

1. View the list of all patients registered:

Admin can view all the patients registered. This includes the patients' First Name, Last Name, Email ID, Contact Number and Password. (See Fig 1.15). As like in doctor module, admin can also search for a patient by their contact number in the search box.

WELCOME ADMIN

First Name	Last Name	Email	Contact	Password
Ram	Kumar	ram@gmail.com	7896543210	ram123
Alia	Bhat	alia@gmail.com	8787989800	alia123
Shahrukh	Khan	shahrukh@gmail.com	7978797800	shahrukh123
Kishan	Lal	kishansmart0@gmail.com	9876543210	kishan123
Gautam	Shankararam	gautam@gmail.com	9999999999	gautam123
Sushant	Singh	sushant@gmail.com	8887778887	sushant123
Nancy	Deborah	nancy@gmail.com	9898989898	nancy123
Kenny	Sebastian	kenny@gmail.com	8797868769	kenny123

Fig 1.15

2. View the list of all doctors registered:

Details of the doctors can also be viewed by the admin. This details include the Name of the doctor, Password, Email and Consultancy fees, shown in Fig 1.16. Searching for a doctor can be done by using the doctor's Email ID in the search box.

WELCOME ADMIN

| Doctor Name	Password	Email	Fees
ashok	ashok123	ashok@gmail.com	500
arun	arun123	arun@gmail.com	600
Dinesh	dinesh123	dinesh@gmail.com	700
Ganesh	ganesh123	ganesh@gmail.com	550
Kumar	kumar123	kumar@gmail.com	800
Amit	amit123	amit@gmail.com	1000
Abbis	abbis123	abbis@gmail.com	1500

Fig 1.16

3. View the Appointment lists:

Admin can also able to see the entire details of the appointment that shows the appointment details of the patients with their respective doctors. This includes the First Name, Last Name, Email and Contact Number of patients, doctor's name, Appointment Date, Time and the Consultancy Fees. (See Fig 1.17).

Global Hospital ⮡Logout

WELCOME ADMIN

	Enter Contact						Search	

	First Name	Last Name	Email	Contact	Doctor Name	Consultancy Fees	Appointment Date	Appointment Time
Dashboard	Ram	Kumar	ram@gmail.com	7896543210	arun	600	2019-09-22	10:00:00
Doctor List	Alia	Bhat	alia@gmail.com	8787989800	Amit	1000	2019-09-23	05:00:00
Patient List	Shahrukh	khan	shahrukh@gmail.com	7978797800	Amit	1000	2019-09-26	12:00:00
Appointment Details	Kishan	Lal	kishansmart0@gmail.com	9876543210	Amit	1000	2019-09-28	05:00:00
Add Doctor	Gautam	Shankararam	gautam@gmail.com	9999999999	Amit	1000	2019-09-30	10:00:00
Messages	Sushant	Singh	sushant@gmail.com	8887778887	Amit	1000	2019-10-01	10:00:00
	Nancy	Deborah	nancy@gmail.com	9898989898	Amit	1000	2019-09-30	10:00:00
	Kenny	Sebastian	kenny@gmail.com	8797868769	Ganesh	550	2019-10-10	10:00:00

Fig 1.17

4. Add Doctor:

Admin alone can add a new doctor since anyone can register as a doctor if we put this section on the home page. This form asks Doctor's Name, Email ID, Password and his/her Consultancy Fees.(See Fig 1.18)

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WELCOME ADMIN

	Doctor Name:	Manoj Kumar
Dashboard	Password:	••••••••
Doctor List	Confirm Password:	••••••••
Patient List		Matching
Appointment Details	Email ID:	manoj@gmail.com
Add Doctor	Consultancy Fees:	650
Messages	Add Doctor	

Fig 1.18

After adding a new doctor, if we check the doctor's list, we will see the details of new doctor is added to the list as shown in the Fig 1.19

WELCOME ADMIN

Doctor Name	Password	Email	Fees
ashok	ashok123	ashok@gmail.com	500
arun	arun123	arun@gmail.com	600
Dinesh	dinesh123	dinesh@gmail.com	700
Ganesh	ganesh123	ganesh@gmail.com	550
Kumar	kumar123	kumar@gmail.com	800
Amit	amit123	amit@gmail.com	1000
Abbis	abbis123	abbis@gmail.com	1500
Manoj Kumar	manoj123	manoj@gmail.com	650

Fig 1.19

5. View User's feedback/Queries:

Admin is allowed to view the feedback/Query that has been given by the user in the 'Contact' page (Refer Fig 1.3). This includes User's Name, Email ID, Contact Number and the message (Feedback/ Query) as shown in the Fig 1.20.

WELCOME ADMIN

User Name	Email	Contact	Message
Anu	anu@gmail.com	7896677554	Hey Admin
Viki	viki@gmail.com	9899778865	Good Job, Pal
Ananya	ananya@gmail.com	9997888879	How can I reach you?
Aakash	aakash@gmail.com	8788979967	Love your site
Mani	mani@gmail.com	8977768978	Want some coffee?
Karthick	karthi@gmail.com	9898989898	Good service
Abbis	abbis@gmail.com	8979776868	Love your service
Asiq	asiq@gmail.com	9087897564	Love your service. Thank you!

Fig 1.20

Taking everything into consideration, admin can view the details of patients and doctors, appointment details, Feedback by the user and can add a new doctor. Once everything is done, the admin can log out from his account.

Updates

1. Cancel Appointments

Patients and doctors can delete their appointments.

Global Hospital	**Logout**				

Welcome Kishan Lal

Dashboard	Doctor Name	Consultancy Fees	Appointment Date	Appointment Time	Current Status	Action
Book Appointment	Ganesh	550	2020-02-14	10:00:00	Cancelled by Doctor	Cancelled
Appointment History	Dinesh	700	2020-02-28	10:00:00	Cancelled by You	Cancelled
	Amit	1000	2020-02-19	03:00:00	Cancelled by You	Cancelled
	Dinesh	700	2020-02-28	12:00:00	Active	Cancel
	Ganesh	550	2020-02-26	15:00:00	Active	Cancel

If the patient deletes the last record (for doctor Ganesh), then a label "deleted by you" will be displayed in the column 'Current Status' and the action will change to cancel state.

Global Hospital	**Logout**				

Welcome Kishan Lal

Dashboard	Doctor Name	Consultancy Fees	Appointment Date	Appointment Time	Current Status	Action
Book Appointment	Ganesh	550	2020-02-14	10:00:00	Cancelled by Doctor	Cancelled
Appointment History	Dinesh	700	2020-02-28	10:00:00	Cancelled by You	Cancelled
	Amit	1000	2020-02-19	03:00:00	Cancelled by You	Cancelled
	Dinesh	700	2020-02-28	12:00:00	Active	Cancel
	Ganesh	550	2020-02-26	15:00:00	Cancelled by You	Cancelled

Now if we log in to the doctor Ganesh's account and view his appointment details, then it will look like this:

Similarly, doctors can also delete their appointments and patients can view their updated appointment details.

2. Remove Doctors by Admin

Admin can also delete the doctors from the system. This let admin have more control over the system.