



INSTITUTE FOR ADVANCED
COMPUTING AND
SOFTWARE DEVELOPMENT
AKURDI, PUNE

Documentation On

“HELLO DOCTOR”
e-DAC AUG 2019

Submitted By:

Group No: 28

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Project Guide
e-DAC**

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1. Introduction

Hospitals are very case sensitive areas specially in this pandemic situation. People should not make crowd at hospital places, because of this pandemic hit very bad on the society. To make the process entirely computerized so as to help people accordingly for the convenience of people in real time. The purpose of this project to make the entire hospital system systematic and using web application so that people can get benefit of it and stop their wastage of time in hospitals and no need to suffer during the emergency.

Document Purpose

The advancement in Information Technology and internet penetration has greatly enhanced various business processes and communication between patients and doctors. This Hello Doctor is developed to provide the following services:

Enhance Hospital Processes:

To be able to use internet technology to project to the global world instead of limiting their services to their local domain alone, many hospitals and doctors can use this so as to make the processes easy simple and convenient.

Online Appointment of doctor:

People can take online appointment from any location by searching and by checking the doctors available time slots.

Search for blood donor :

Blood donors registered by admin in this project so as to avoid any false information and facility to search area and city wise available blood donors of registered blood donors to help the needy during the emergency.

Problem Statement

Existing System are not that matured to provide various facilities. Existing systems are specifically designed for particular hospitals and clinics for their own use. Existing system doesn't provide blood donor related information. Systems are not so convenient and easy to

use. To take the appointment and consultation from another one can need to visit the that doctor's own platform which is sort of irritating thing.

Product Scope

This project traverses a lot of areas ranging from city, state and country wide. One single place where patients can see multiple doctors with their specialization and can contact or can directly take an appointment with that doctor

- This project will be useful to any small clinics, medium and big hospitals which gives convenience to the people.
- People can search blood donors from their area or from their city by choosing the blood group.

Aims & Objectives

Specific goals are: -

- To produce a web-based system that allow the admin to add doctors, blood donors and provide functionalities to its role.
- To ease for booking appointment with doctor.
- To make entire process simple and easy to use over wider range.

Overall Description

Product Perspective:

2.1.1 Existing system function:

Existing System are not that matured to provide various facilities. Existing systems are specifically designed for particular hospitals and clinics for their own use. Existing system doesn't provide blood donor related information. Systems are not so convenient and easy to use. To take the appointment and consultation from another one can need to visit the that doctor's own platform which is sort of irritating thing.

□ III. PROPOSED SYSTEM

Product functionality:

Hello Doctor provides the features for admin, doctors and patients. It includes several functionalities describes as below:

Book appointment with doctor:

It provides facility to take an appointment with doctor with doctor's available time slots. Doctor can see the details of the patients and cancel the appointment any time. Patients can check their current active appointment and history of appointment.

Search for blood donor:

Project provides facility to search the blood donor of their choice of blood group from and any city of they want and also see the contact details of the blood donor. That will help during emergency situation.

Verified personal details data security:

Administrator can only add the blood donor so as to avoid any false information on the platform. Admin can see the donors and doctors list and can delete any time.

Benefits of Hello Doctor

- This project is fully functional and flexible.
- It is very easy to use.
- This project gives full control to the administrator to avoid any mis functionality
- It saves a lot of time of patients avoids staying the queues at the hospitals and also give blood donors information.
- This project is not specific to any hospital. Doctors can contact to admin to get registered on the platform to give services to people.
- The application acts as an office that is open 24/7.
- It is easy to use and very convenient and real time further improvement and addition of features easily possible.

Users and Characteristics:

Admin:

- Admin can login to the system.
- View the list of all doctors.
- Add new doctor.
- Delete Flat doctor.
- Add new blood donor.
- View list of patients.
- View list of donors.
- Delete patients.
- Logout the admin.

Doctor:

- Doctor can login to the system.
- Can view and update his/her details.
- View active appointments.
- View appointment history.
- Create time slots for appointments.
- View today's time slots.
- Logout from the system.

Patient:

- Patient can login to system.
- Patient can update his/her profile.
- Can book appointment with doctor.
- Show current appointment.
- View appointment history.
- Can search and get info blood donor.
- Logout from the system.

Operating Environment:

Server Side:

Processor: Intel® Xeon® processor 3500 series

HDD: Minimum 500GB Disk Space

RAM: Minimum 2GB

OS: Windows 10, Linux 6

Database: Oracle 11g

Client Side (minimum requirement):

Processor: Intel Dual Core

HDD: Minimum 80GB Disk Space

RAM: Minimum 1GB

OS: Windows 7 or above/ Linux

Software Requirements:

Operating System: Windows 10

Browser : Google Chrome

Front End : VS Code

Backend : Spring tool suite and
Mysql

Design and Implementation Constraints:

- The application will use React js, axios, Rest API , Bootstrap and css as main web technologies.
- HTTP and FTP protocols are used as communication protocols. FTP is used to upload the web application in live domain and the client can access it via HTTP protocol.

- Several types of validations make this web application a secured one and SQL Injections can also be prevented.
- Since Hello Doctor is a web-based application, internet connection must be established.
- The Hello Doctor will be used on PCs and will function via internet or intranet in any web browser.

Requirement specification

External Interface Requirements:

User Interfaces:

- All the users will see the same page when they enter in this website. This page gives the option to signup for patients and common login option to all admin, doctor and patients.
- After being authenticated by correct username and password, user will be redirect to their corresponding profile where they can do various activities.
- The user interface will be simple and consistence, using terminology commonly understood by intended users of the system. The system will have simple interface, consistence with standard interface, to eliminate need for user training of infrequent users.

Hardware Interfaces:

- No extra hardware interfaces are needed.
- The system will use the standard hardware and data communication resources.
- This includes, but not limited to, general network connection at the server/hosting site, network server and network management tools.

Application Interfaces:

OS: Windows 10, Linux

Web Browser:

The system is a web-based application; clients need a modern web browser such as Mozilla Firefox, Internet Explorer, Opera, and Chrome. The computer must have an Internet connection in order to be able to access the system.

Communications Interfaces:

- This system uses communication resources which includes but not limited to, HTTP protocol for communication with the web browser and web server and TCP/IP network protocol with HTTP protocol.
- This application will communicate with the database that holds all the booking information. Users can contact with server side through HTTP protocol by means of a function that is called HTTP Service. This function allows the application to use the data retrieved by server to fulfil the request fired by the user.

System Diagrams

Activity Diagram

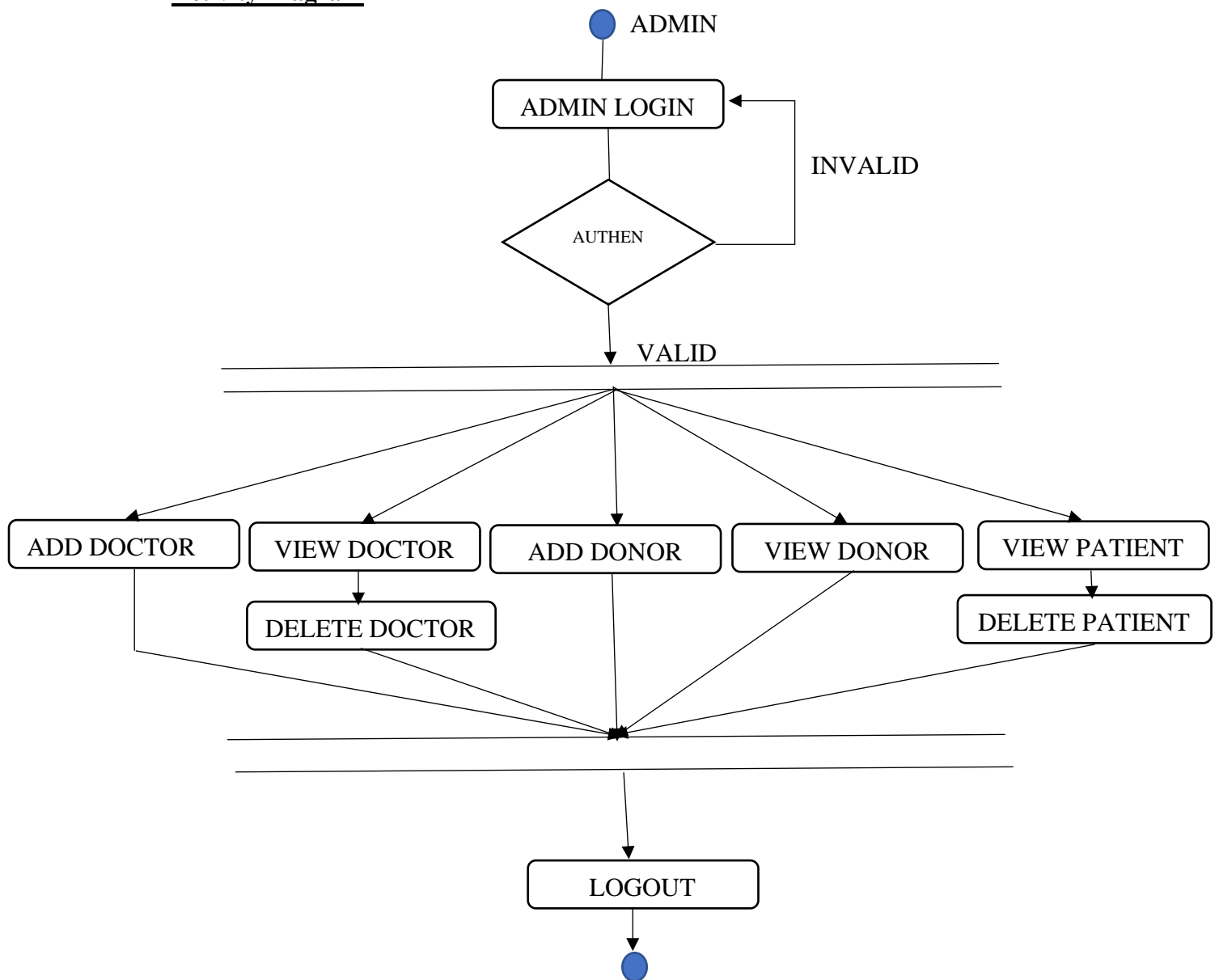
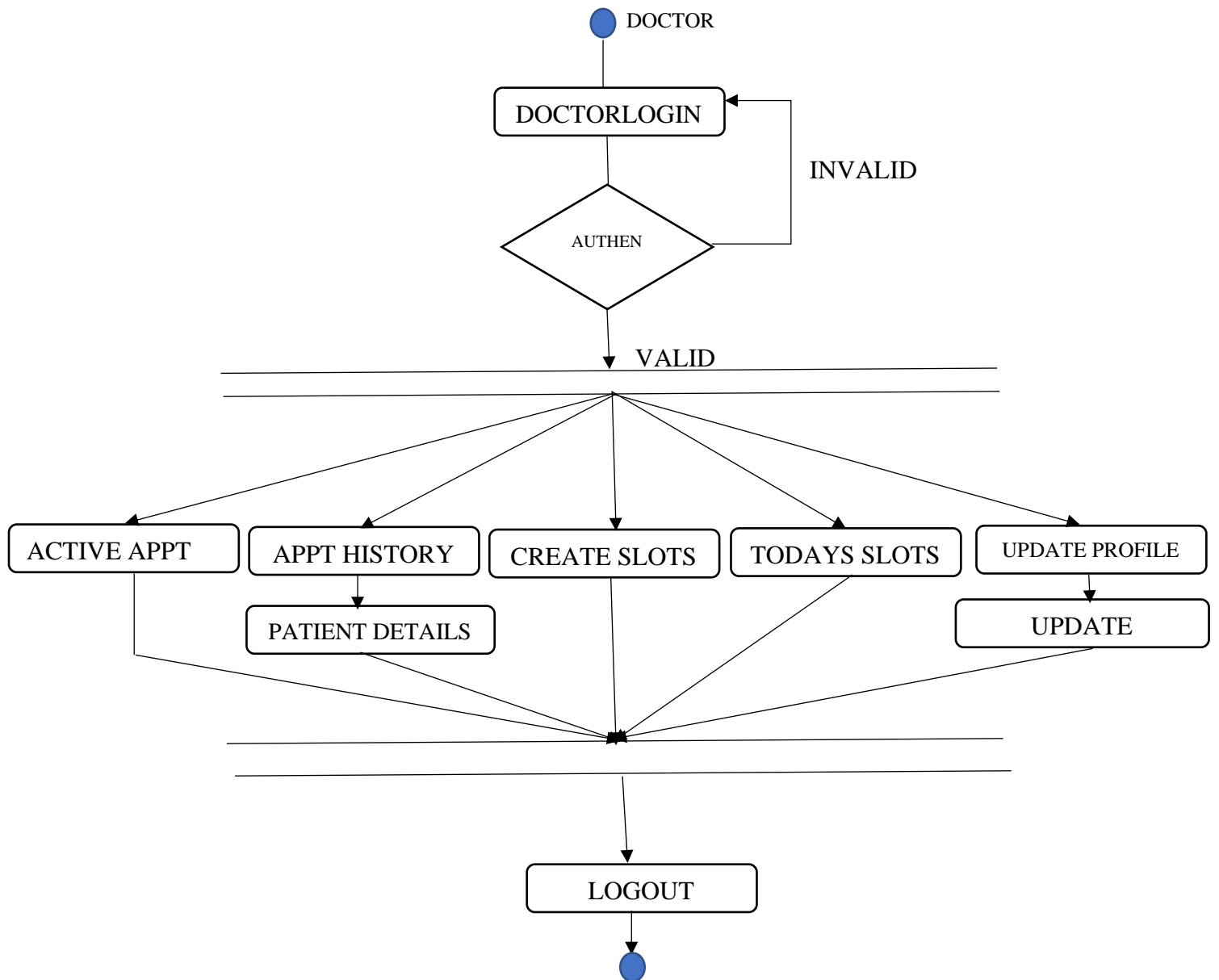


Figure 1: Admin Activity Diagram

**Figure 2: Doctor Activity Diagram**

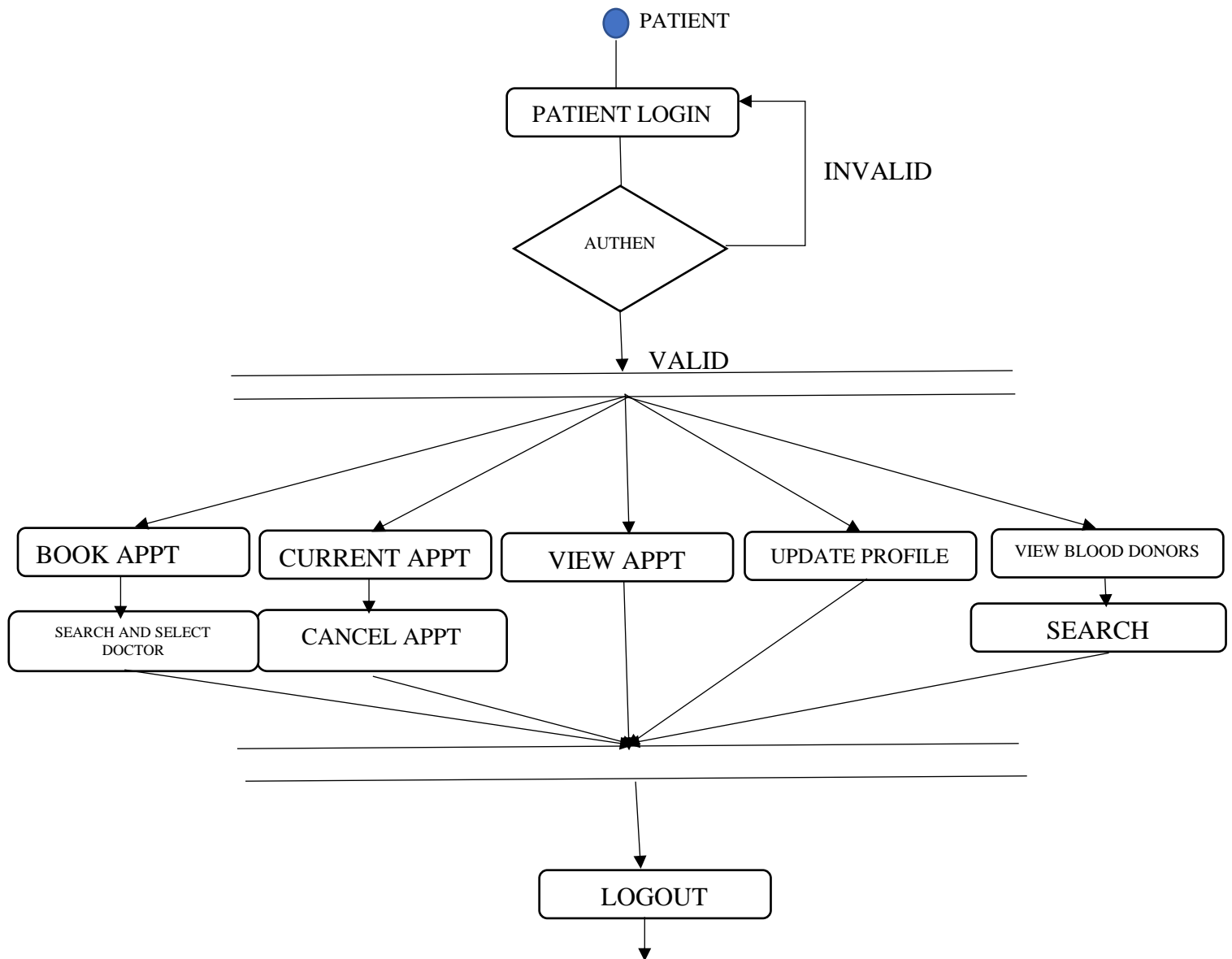


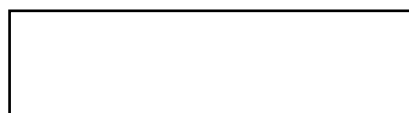
Figure 3: Patient Activity Diagram

Data Flow Diagram (DFD)

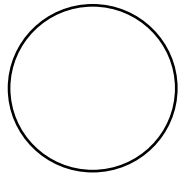
Data Flow Diagram (DFD) is a pictorial representation, which shows the data passes from various stages one by one during the processing. DFD has some in defined symbols using, which we can denote input, dataflow and storing databases files.

Symbols used in DFD:-

Input & Output



Process



Flow of data



Data storage

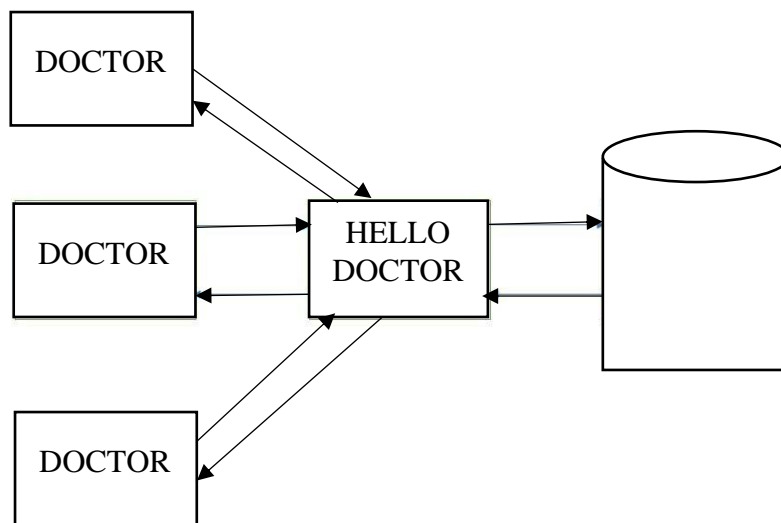


Figure 4: Level 0 Data Flow Diagram

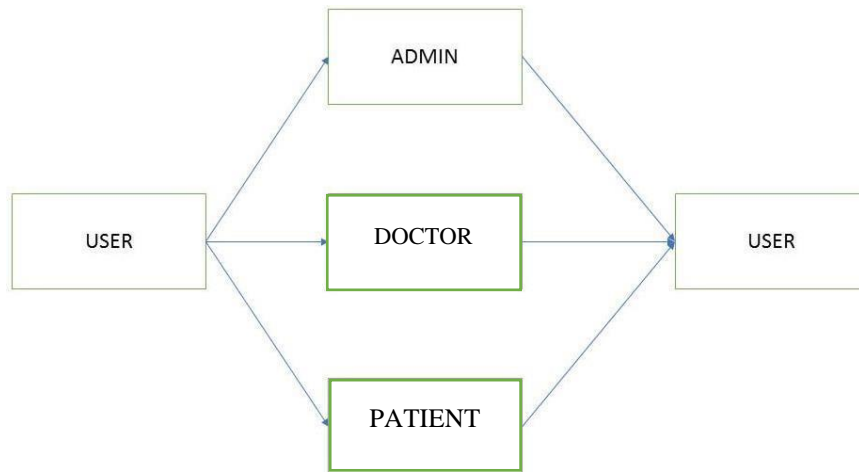


Figure 5: Level 1 Data Flow Diagram

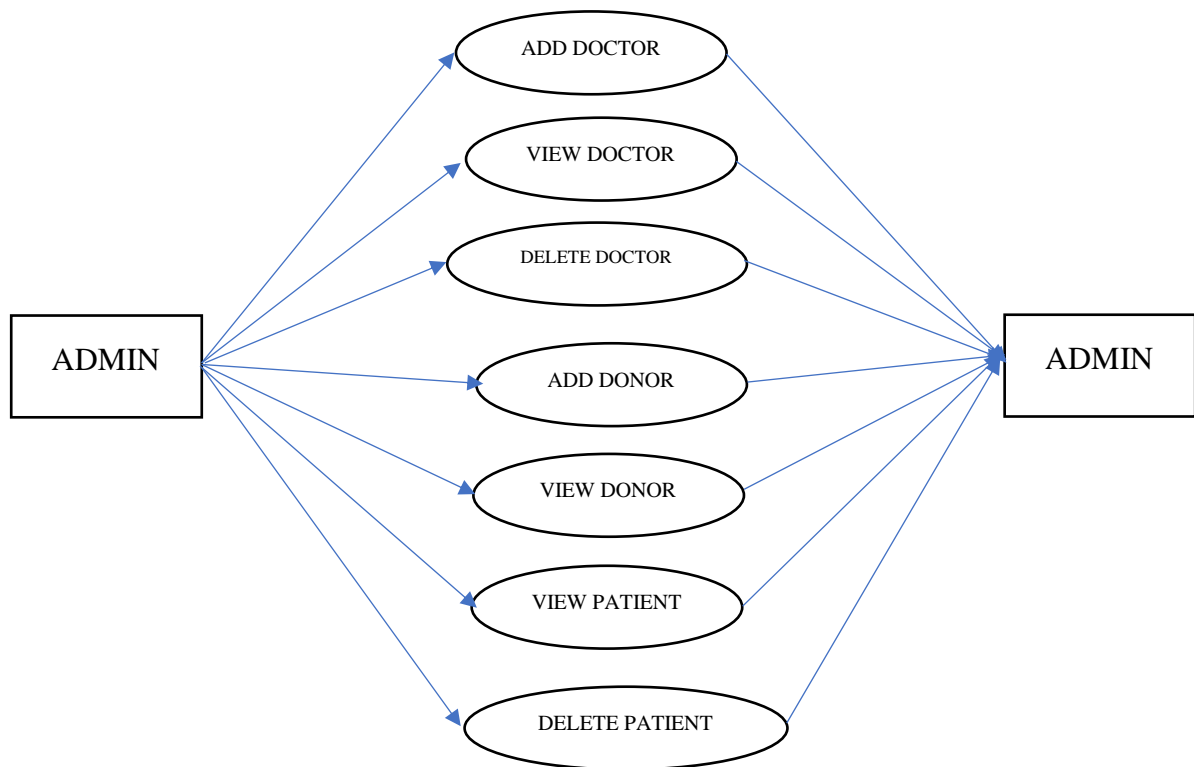


Figure 6: Level 2 Data Flow Diagram for Admin

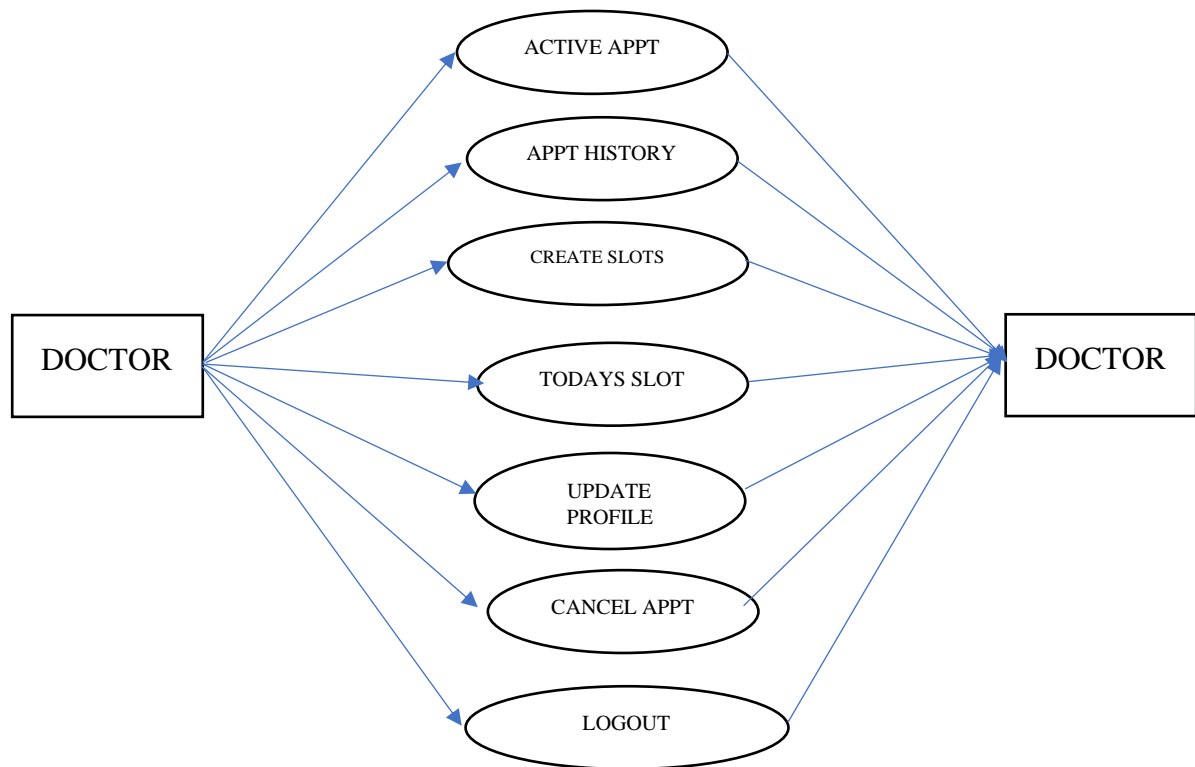


Figure 7: Level 2 Data Flow Diagram for Doctor

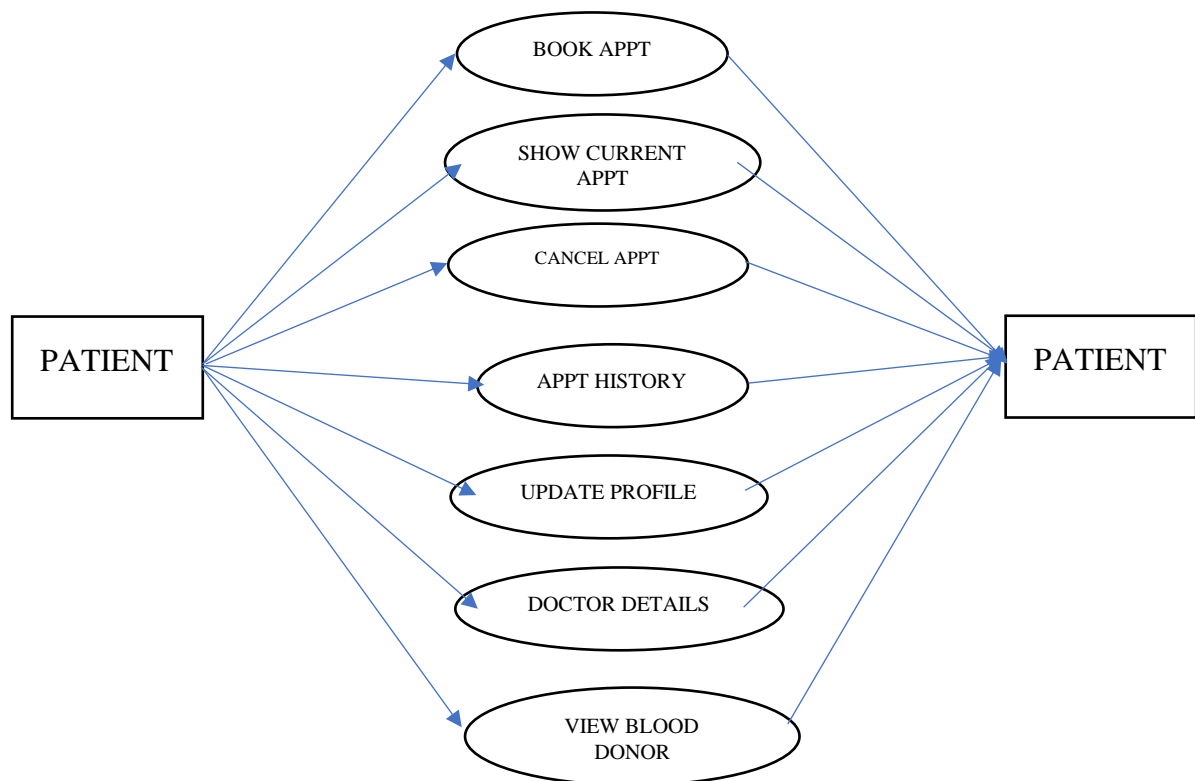


Figure 8: Level 2 Data Flow Diagram for Patient

Use Case Diagram

A Use case is an explanation of set of sequence of events graphically. It is rendered as an ellipse with rock-solid line up as well as lone its name. Use case diagram is a behavioural diagram that shows a set of use cases and actors and their relationship. It is a relationship among the use cases and actors. An actor represents a real-world object.

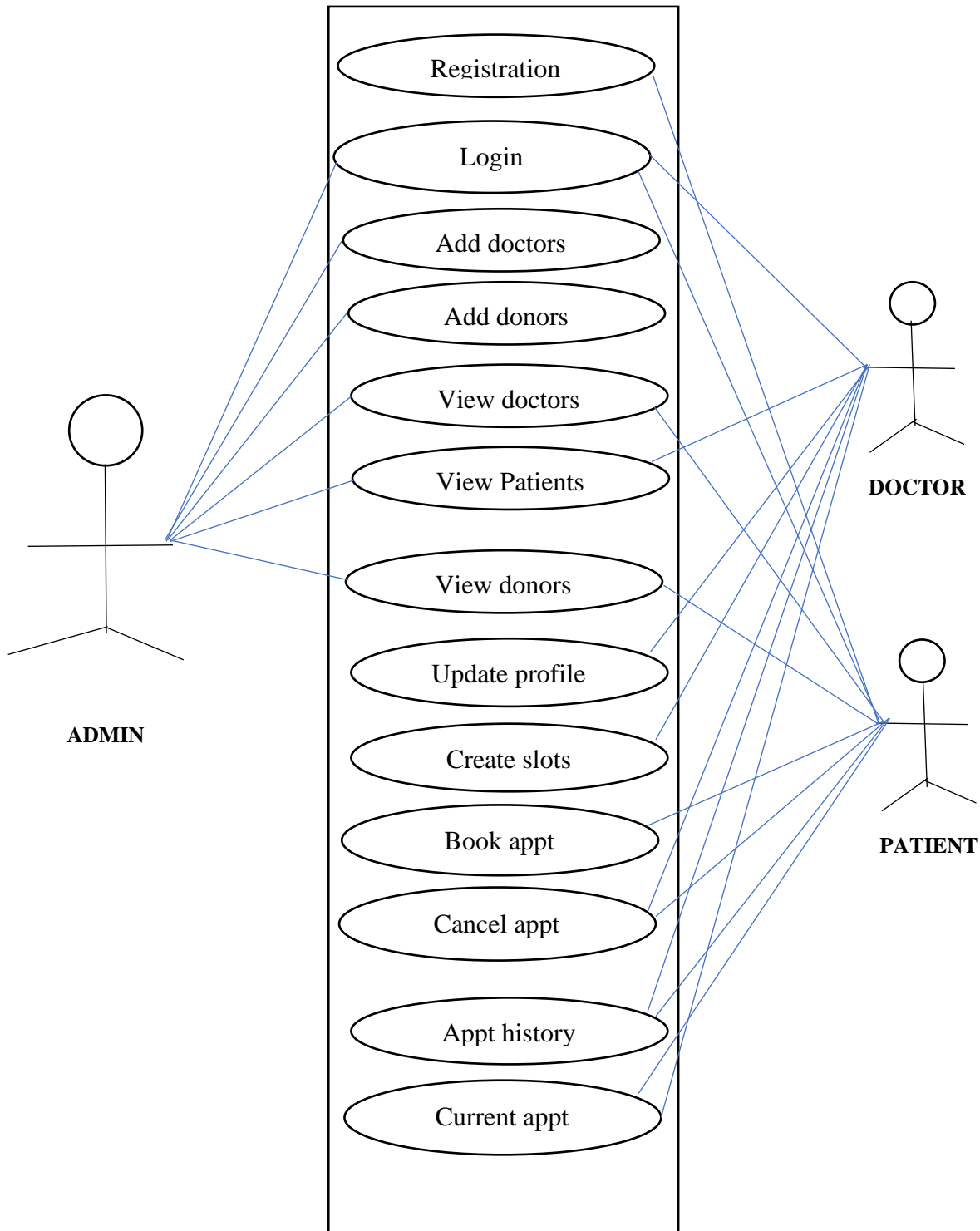


Figure 10: Use Case Diagram

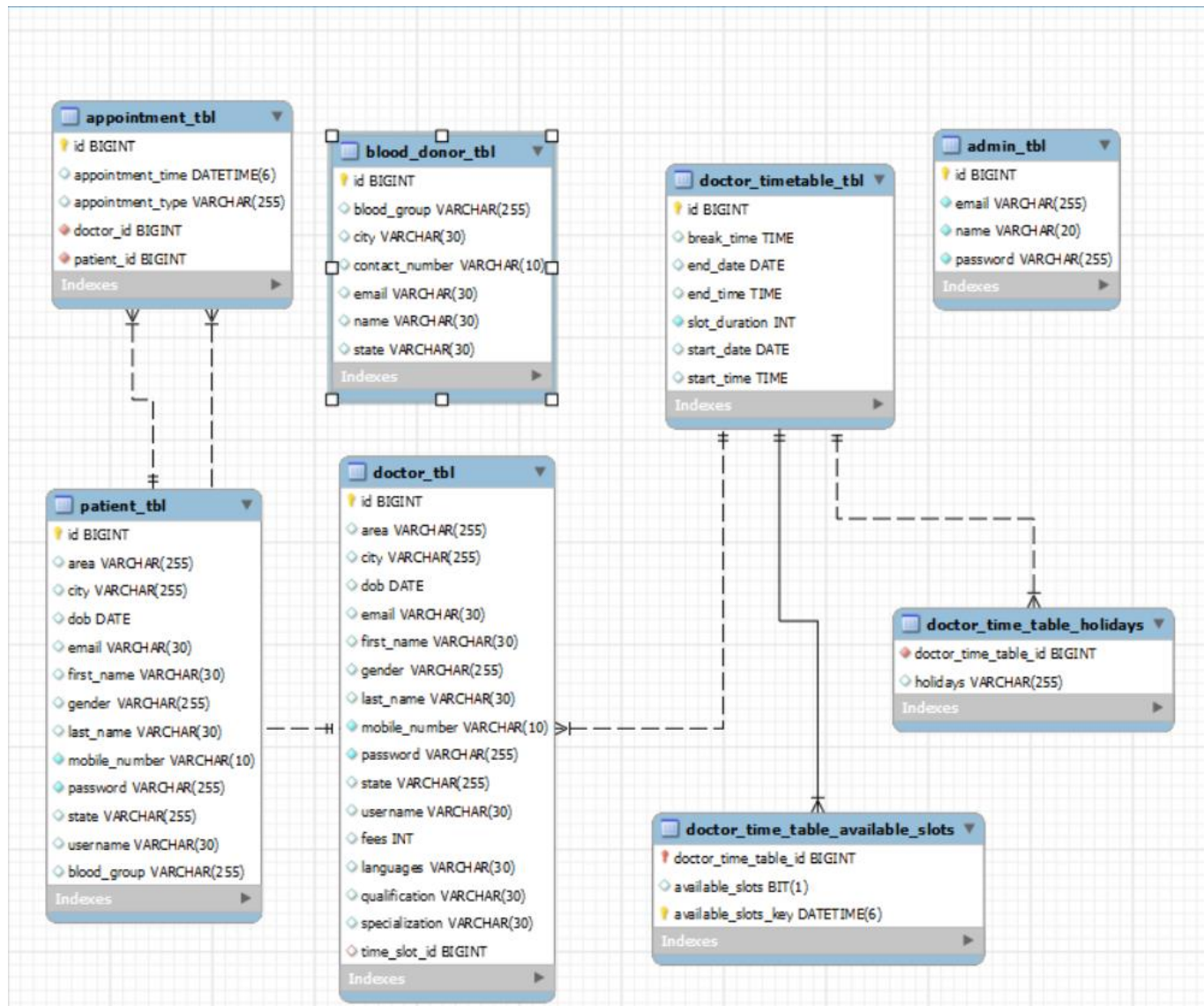
ER Diagram**Figure 11: ER Diagram**

Table Structure

Admin table:

```
mysql> desc admin_tbl;
```

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
email	varchar(255)	NO		NULL	
name	varchar(20)	NO		NULL	
password	varchar(255)	NO		NULL	

4 rows in set (0.04 sec)

Appointment table:

```
mysql> desc appointment_tbl;
```

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
appointment_time	datetime(6)	YES		NULL	
appointment_type	varchar(255)	YES		NULL	
doctor_id	bigint	NO	MUL	NULL	
patient_id	bigint	NO	MUL	NULL	

5 rows in set (0.01 sec)

Blood donor table:

```
mysql> desc blood_donor_tbl;
```

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
blood_group	varchar(255)	YES		NULL	
city	varchar(30)	YES		NULL	
contact_number	varchar(10)	YES		NULL	
email	varchar(30)	YES		NULL	
name	varchar(30)	YES		NULL	
state	varchar(30)	YES		NULL	

7 rows in set (0.01 sec)

Doctor table:

```
mysql> desc doctor_tbl;
```

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
area	varchar(255)	YES		NULL	
city	varchar(255)	YES		NULL	
dob	date	YES		NULL	
email	varchar(30)	YES	UNI	NULL	
first_name	varchar(30)	YES		NULL	
gender	varchar(255)	YES		NULL	
last_name	varchar(30)	YES		NULL	
mobile_number	varchar(10)	NO		NULL	
password	varchar(255)	NO		NULL	
state	varchar(255)	YES		NULL	
username	varchar(30)	YES	UNI	NULL	
fees	int	YES		NULL	
languages	varchar(30)	YES		NULL	
qualification	varchar(30)	YES		NULL	
specialization	varchar(30)	YES		NULL	
time_slot_id	bigint	YES	MUL	NULL	

```
17 rows in set (0.01 sec)
```

Doctor time table available slots:

```
mysql> desc doctor_time_table_available_slots;
```

Field	Type	Null	Key	Default	Extra
doctor_time_table_id	bigint	NO	PRI	NULL	
available_slots	bit(1)	YES		NULL	
available_slots_key	datetime(6)	NO	PRI	NULL	

```
3 rows in set (0.01 sec)
```

Doctor time table holidays:

```
mysql> desc doctor_time_table_holidays;
```

Field	Type	Null	Key	Default	Extra
doctor_time_table_id	bigint	NO	MUL	NULL	
holidays	varchar(255)	YES		NULL	

2 rows in set (0.01 sec)

Doctor timetable table:

```
mysql> desc doctor_timetable_tbl;
```

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
break_time	time	YES		NULL	
end_date	date	YES		NULL	
end_time	time	YES		NULL	
slot_duration	int	NO		NULL	
start_date	date	YES		NULL	
start_time	time	YES		NULL	

7 rows in set (0.01 sec)

Patient table:

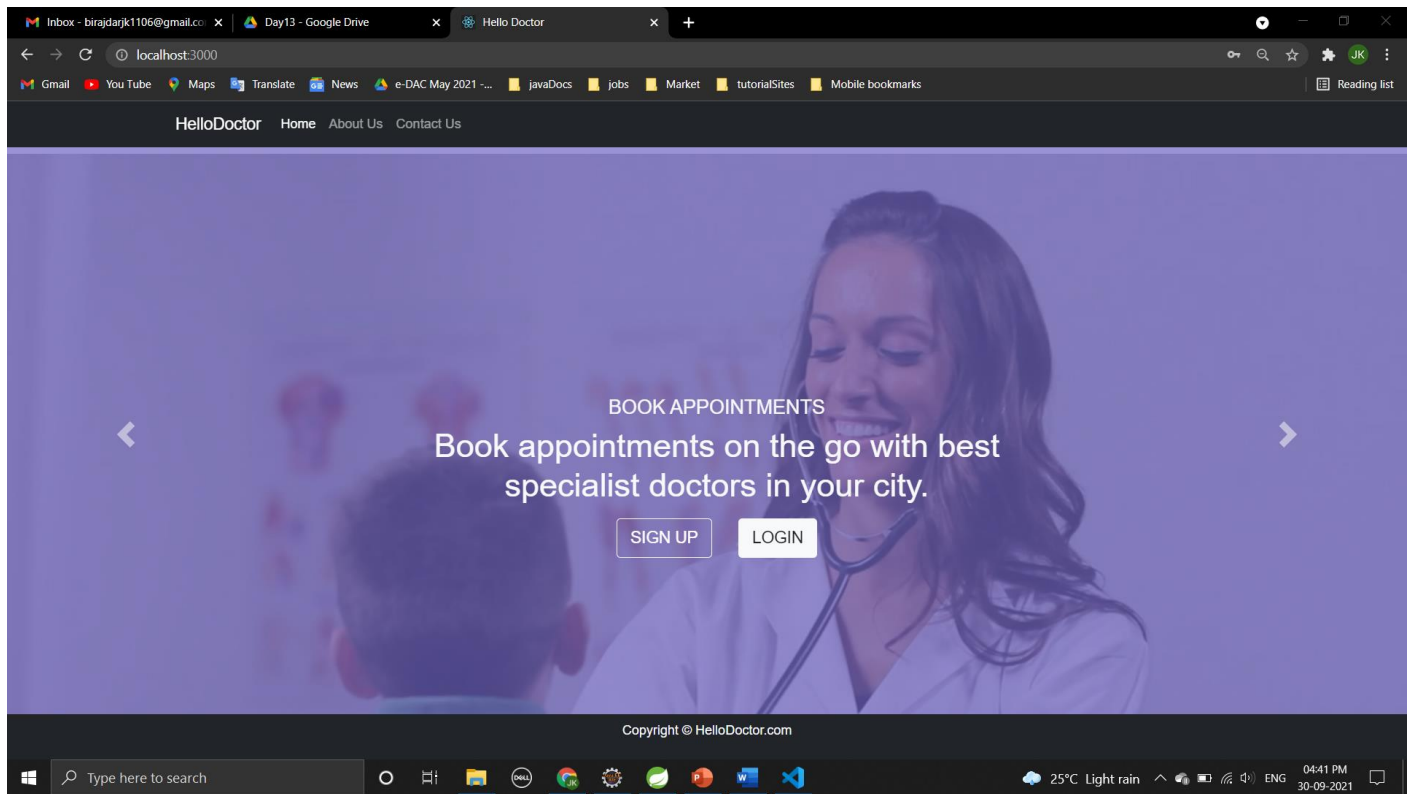
```
mysql> desc patient_tbl;
```

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
area	varchar(255)	YES		NULL	
city	varchar(255)	YES		NULL	
dob	date	YES		NULL	
email	varchar(30)	YES	UNI	NULL	
first_name	varchar(30)	YES		NULL	
gender	varchar(255)	YES		NULL	
last_name	varchar(30)	YES		NULL	
mobile_number	varchar(10)	NO		NULL	
password	varchar(255)	NO		NULL	
state	varchar(255)	YES		NULL	
username	varchar(30)	YES	UNI	NULL	
blood_group	varchar(255)	YES		NULL	

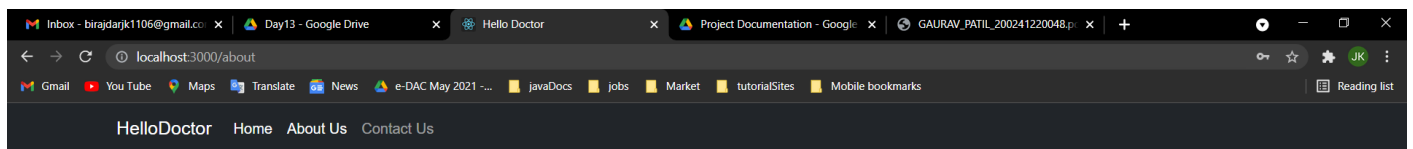
```
13 rows in set (0.00 sec)
```

Graphical User Interface

Home Page



About Us



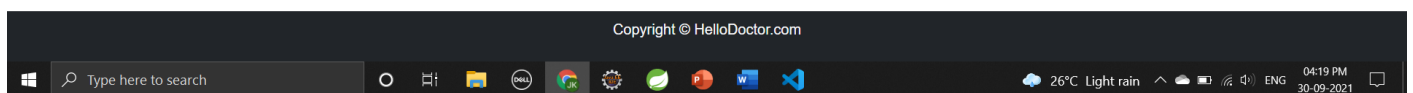
About Us

Hello Doctor is a platform for booking medical consultations with specialist doctors in your city online. Patient can book an appointment by selecting any of the time slot given by doctor.

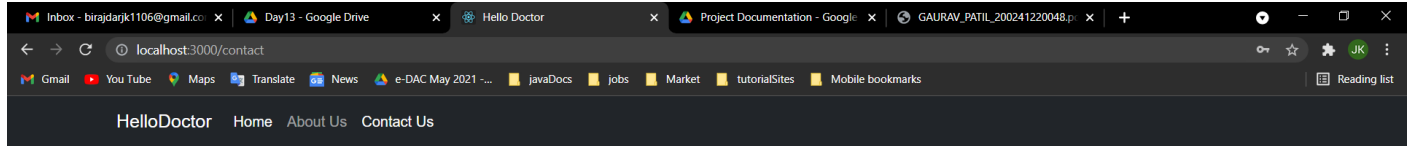
Some additional functionalities are - user can search doctor by specialization and city, both user and doctor can manage their booked appointments, both can manage their appointment history, verification of doctor's credentials by admin and users can get information about blood donors in their city.

Regards, from creators:

- JK Birajdar
- Anurag Kanoje



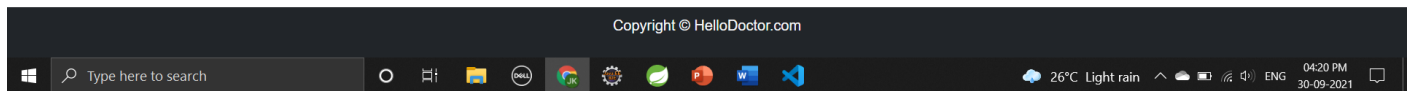
Contact Us



Contact

Start working with us today. To get added as a doctor please email your details to any of the given admin below :

- birajdarjk1106@gmail.com
- anuragkanoje003@gmail.com



User/Patient Registration

Copyright © HelloDoctor.com

GO BACK

User Registration

Username: Enter a unique username

First Name: Enter your first name

Last Name: Enter your last name

Email: e.g. abc@xyz.com

Date of Birth: dd-mm-yyyy

Password: Enter Password

Gender: ☐ Male ☐ Female ☐ Other

Blood Group: --select--

Mobile: Enter your mobile number

Area: Enter a Area

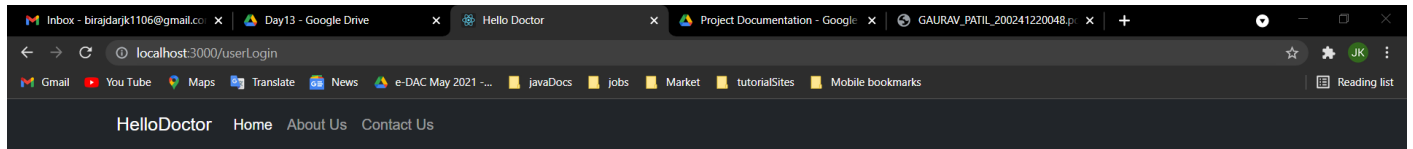
City: Enter a city

State: Enter a state

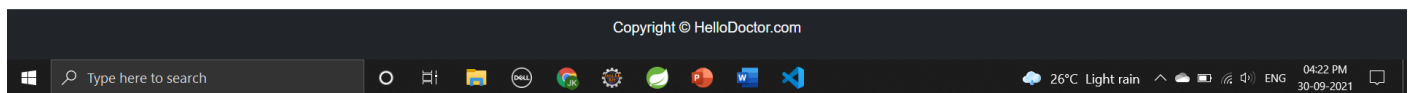
SIGN UP

Copyright © HelloDoctor.com

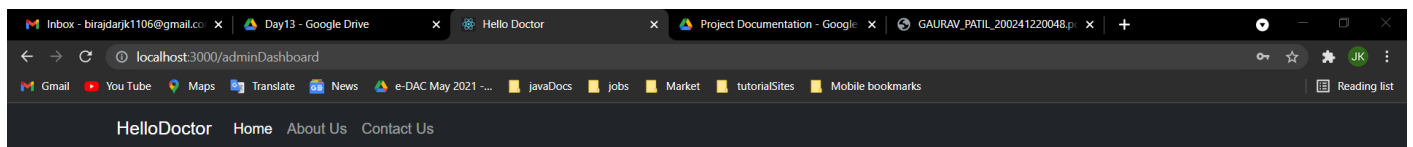
Common Login Page for Admin, Doctor and Patient



User Login

A login form with a dark background. It features two white input fields. The first field contains the email 'admin@gmail.com'. The second field is labeled 'Password'. Below the password field is a green button labeled 'LOGIN' and a link labeled 'Forgot Password?'.

Admin Dashboard



Hello, Admin

LOGOUT

Add New Doctor

Register a new doctor to database.

ADD

View Doctor List

View details of all registered doctors.

VIEW

Add New Donor

Add a new blood donor to database.

ADD

View Donor List

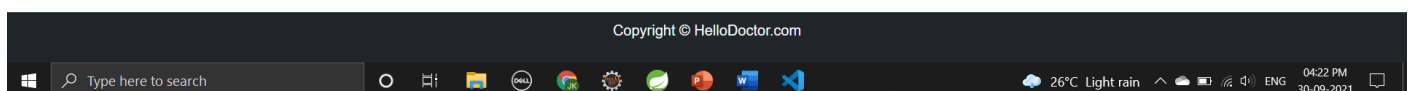
View details of all registered donors.

VIEW

View Patient List

View details of all patients.

VIEW



Add New Doctor by Admin

localhost:3000/add-new-doctor

GO BACK

Username: Enter a unique username

First Name: Doctor's first name

Last Name: Doctor's last name

Email: e.g. abc@xyz.com

Date of Birth: dd-mm-yyyy

Password: Enter Password

Gender: ☐ Male ☐ Female ☐ Other

Mobile: Doctor's mobile number

Area: Doctor's Clinic Area

City: Doctor's city

State: Doctor's State

Languages: Languages known by doctor

Consultation Fee:

Qualification: Doctor's qualification

Specialization: --select--

SUBMIT

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View Doctor by Admin

localhost:3000/doctor-list-admin

Go Back

Doctor List

Name	Qualification	Specialization	City	Consultation Fee	Email	Mobile Number	Action
dr1 dr1	MBBS	Covid_Consultant	Pune	5000	dr1@mail.com	4523422145	Delete
doctor Desai	MBBS	Dentist	Pune	1000	doc@gmail.com	4563125945	Delete

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Add New Blood Donor by Admin

localhost:3000/add-new-donor

HelloDoctor Home About Us Contact Us

Add Donor

GO BACK

Donor Name

Email

Blood Group

Contact Number

City

State

SUBMIT

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Type here to search

26°C Light rain 04:24 PM 30-09-2021

View Blood Donor List by Admin

localhost:3000/donorList

HelloDoctor Home About Us Contact Us

Donor List

Go Back

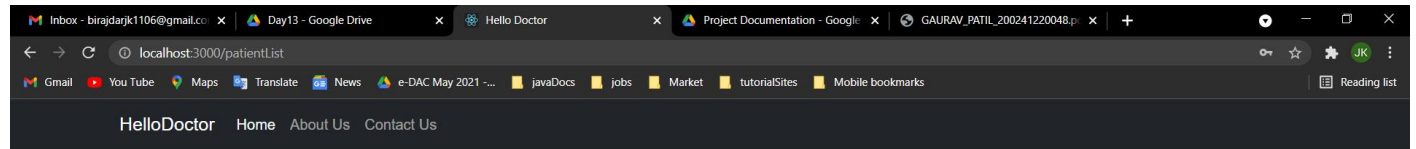
Name	Email	City	Contact Number	Blood Group
bd2	bd2@gmail.com	Pune	9809789898	B_POSITIVE
bd3	bd3@gmail.com	Pune	9809789898	A_POSITIVE
bd4	bd4@gmail.com	Mumbai	9809789898	B_POSITIVE
bd5	bd5@gmail.com	Mumbai	9809789898	A_NEGATIVE

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Type here to search

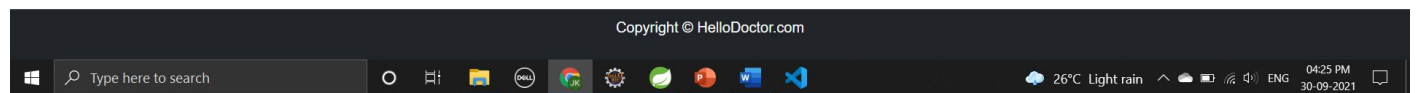
26°C Light rain 04:25 PM 30-09-2021

View Patient List by Admin

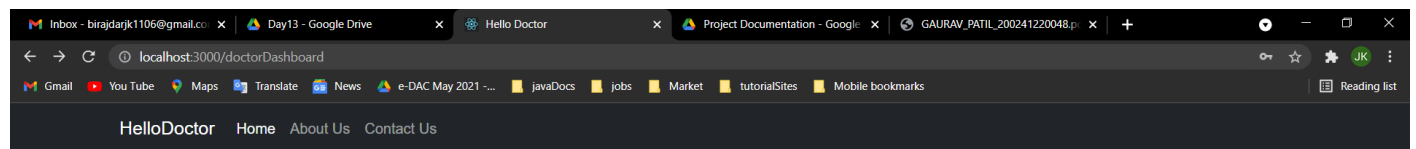


Patient List

Name	D.O.B.	City	Gender	Blood Group	Email	Mobile Number	Action
p1 p1	2018-01-18	Pune	MALE	O_NEGATIVE	p1@mail.com	7777777777	Delete
shilpa s	2000-06-23	Pune	FEMALE	O_POSITIVE	sspawale14@gmail.com	9503736395	Delete
jk biraj	1999-06-11	Pune	MALE	O_NEGATIVE	birajdarjk1106@gmail.com	9503736395	Delete



Doctor Dashboard



Hello, Dr. Doctor

LOGOUT

Active Appointments

View all your active appointments at present.

[VIEW](#)

Appointment History

View your appointment history.

[VIEW](#)

Create Slots

Fill a form to create your slot time-table according to your convenience.

[CREATE](#)

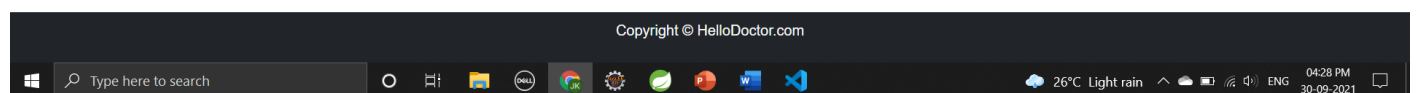
Show Todays Slots

Display all slots available for today

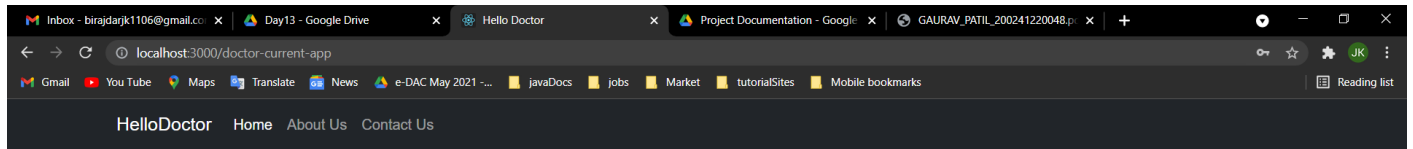
[VIEW](#)

Update Profile

Updte your account details.

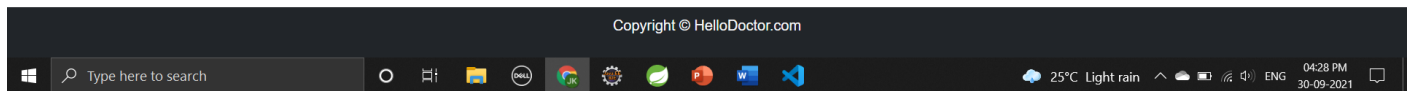
[UPDATE](#)

View Active Appointment by Doctor

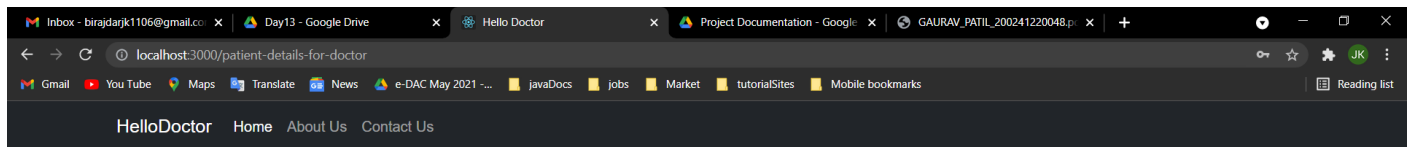


Your Active Appointments

S. No.	Date	Time	Appointment Type	Action
1	30 September,2021	5:00 PM	CLINIC_VISIT	Patient Details Cancel

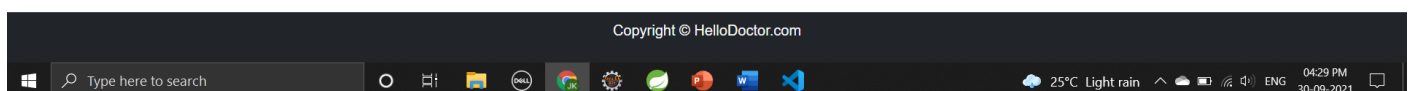


Appointment booked patient details by Doctor

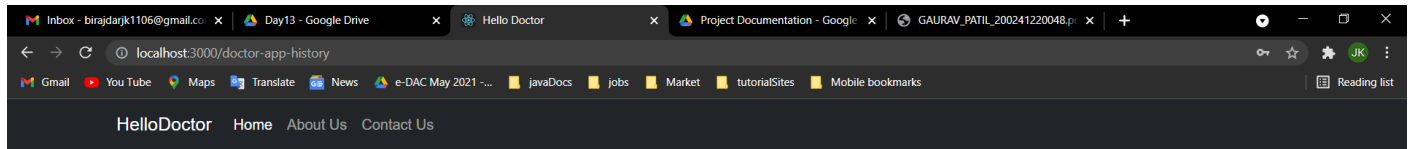


Patient Details

FirstName :	shilpa
LastName :	s
Mobile No :	9503736395
Date Of Birth :	2000-06-23
Gender :	FEMALE
BloodGroup :	O_POSITIVE
Email :	sspawale14@gmail.com
State :	Maharashtra
Area :	Pune
City :	Pune

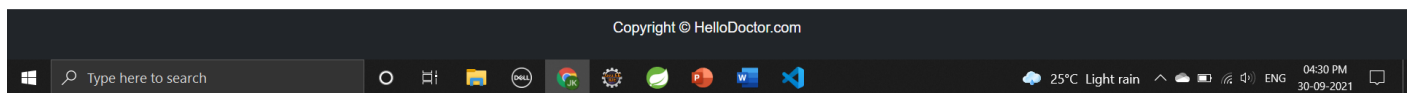


Appointment History by Doctor

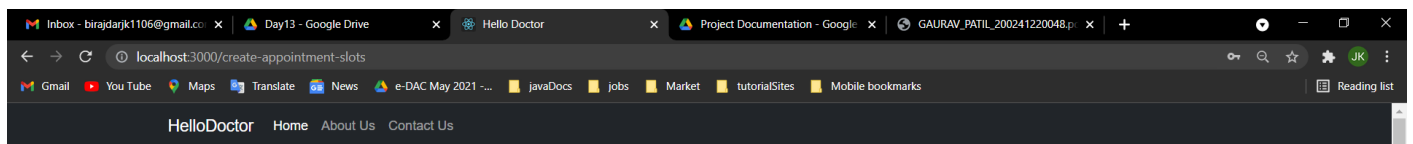


Your Appointment History

S. No.	Date	Time	Appointment Type	Action
1	30 September,2021	3:00 PM	CLINIC_VISIT	Patient Details
2	30 September,2021	2:00 PM	CLINIC_VISIT	Patient Details



Time Slot creation for Appointment by Doctor



Create Your Slots

Start Date

End Date

Start Time

End Time

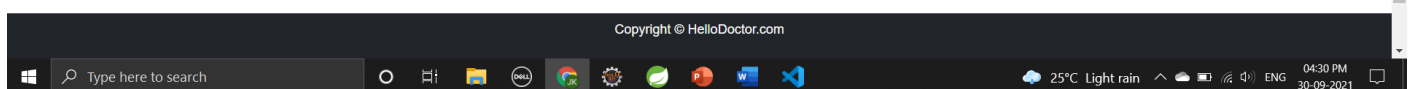
Slot Duration(minutes)

Break Time

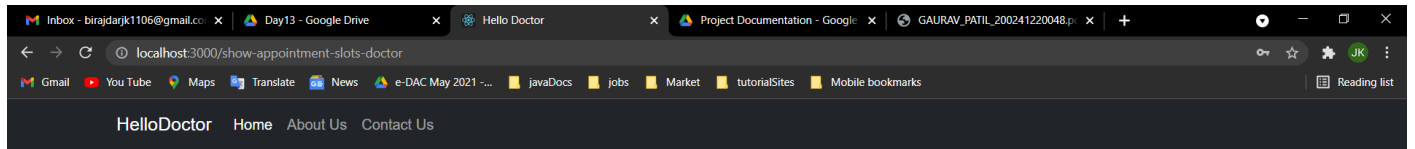
Holidays

- ☐ Sunday
- ☐ Monday
- ☐ Tuesday
- ☐ Wednesday
- ☐ Thursday
- ☐ Friday
- ☐ Saturday

[SUBMIT](#)

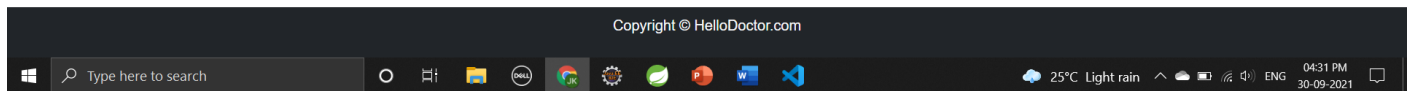


Todays Available Time Slots by Doctor

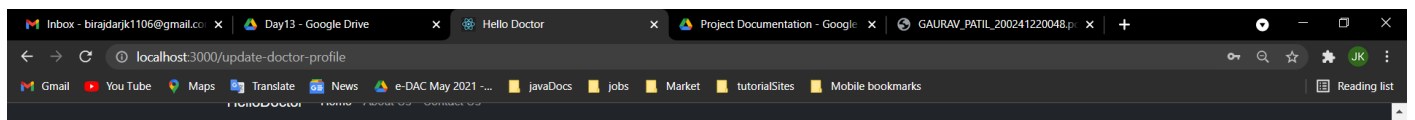


Today's Available Slots

5:30 PM



Update Profile by doctor

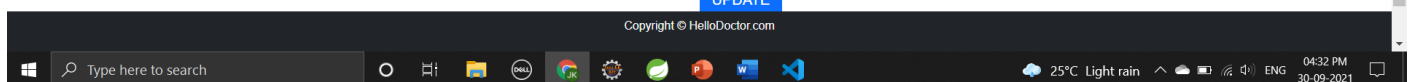


Update Profile

GO BACK

Username	<input type="text" value="doctor1"/>
First Name	<input type="text" value="doctor"/>
Last Name	<input type="text" value="Desai"/>
Email	<input type="text" value="doc@gmail.com"/>
Date of Birth	<input type="text" value="12-06-2002"/>
Mobile	<input type="text" value="4563125945"/>
Area	<input type="text" value="Pune"/>
City	<input type="text" value="Pune"/>
State	<input type="text" value="Maharashtra"/>
Languages	<input type="text" value="English"/>
Consultation Fee	<input type="text" value="1000"/>
Qualification	<input type="text" value="MBBS"/>
Specialization	<input type="text" value="Dentist"/>

UPDATE



Patient Dashboard

The screenshot shows a web browser window with the URL `localhost:3000/patientDashboard`. The page has a dark header with navigation links: **HelloDoctor**, [Home](#), [About Us](#), and [Contact Us](#). The main content area is white and contains a greeting "Hello, Shilpa" with a red **LOGOUT** button. Below the greeting are five white cards with rounded corners:

- Book Appointment**: "Book appointments with best doctors in city." with a blue **Book** button.
- Show Current Appointment**: "View your current appointment." with a yellow **View** button.
- View Appointment History**: "Click to view your till date appointment history." with a teal **View** button.
- Update Profile**: "Edit your account details." with a green **Update** button.
- Get Blood Donor Info**: "Click to view details of available blood donors." with a yellow **View** button.

The footer is dark and contains the text "Copyright © HelloDoctor.com". The Windows taskbar at the bottom shows the search bar, task view, and various application icons. The system tray on the right displays "25°C Light rain", "ENG", and the date/time "04:34 PM 30-09-2021".

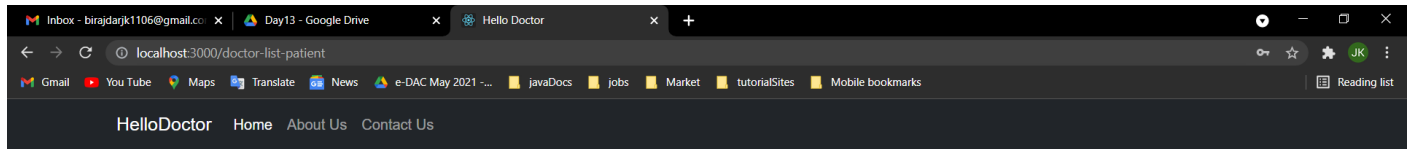
Book Appointment by Doctor

The screenshot shows a web browser window with the URL `localhost:3000/specialization-list-by-city`. The page has a dark header with navigation links: **HelloDoctor**, [Home](#), [About Us](#), and [Contact Us](#). The main content area is white and contains the heading "Select Specialization" with a grey **GO BACK** button. Below the heading is a form with a label "City :" and a text input field containing "Pune". A blue **Search** button is positioned below the input field. Below the search button, there are two scrollable lists of specialization buttons:

- First list: **Covid_Consultant**
- Second list: **Dentist**

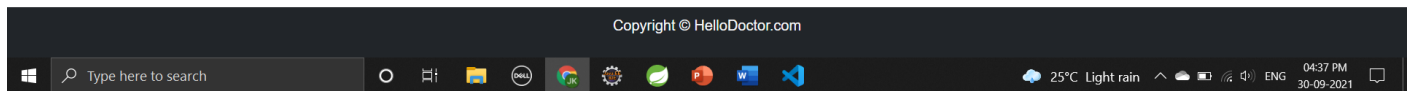
The footer is dark and contains the text "Copyright © HelloDoctor.com". The Windows taskbar at the bottom shows the search bar, task view, and various application icons. The system tray on the right displays "25°C Light rain", "ENG", and the date/time "04:34 PM 30-09-2021".

Appointment Confirmation by Patient

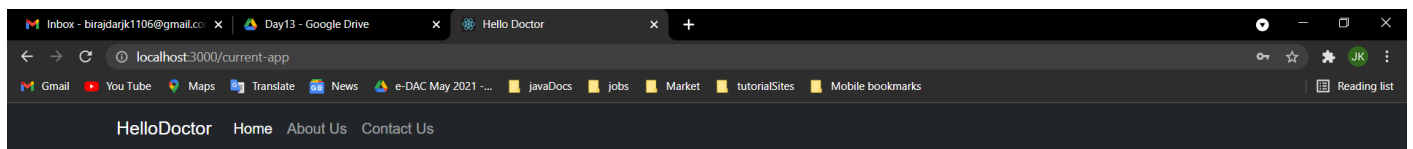

[Go Back](#)

Available Dentists in Pune

Name	Qualification	Consultation Fee	Email	Mobile Number	Area	Action
Dr. doctor Desai	MBBS	1000	doc@gmail.com	4563125945	Pune	Book Appointment

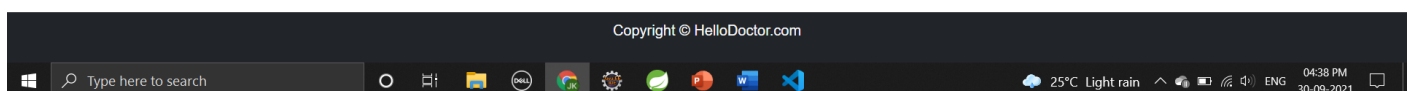


Active Appointments for Patient by Patient


[Go Back](#)

Your Active Appointments

S. No.	Date	Time	Appointment Type	Action
1	30 September,2021	5:00 PM	CLINIC_VISIT	Doctor Details Cancel



View Appointment History by Patient

Browser tabs: Inbox - birajdarjk1106@gmail.co, Day13 - Google Drive, Hello Doctor

Address bar: localhost:3000/app-history

Navigation: HelloDoctor Home About Us Contact Us

[Go Back](#)

Your Appointment History

S. No.	Date	Time	Appointment Type	Action
1	30 September,2021	2:00 PM	CLINIC_VISIT	Doctor Details

Copyright © HelloDoctor.com

Windows taskbar: Type here to search, 25°C Light rain, 04:39 PM 30-09-2021

Update Profile by Patient

Browser tabs: Inbox - birajdarjk1106@gmail.co, Day13 - Google Drive, Hello Doctor

Address bar: localhost:3000/update-profile

Navigation: HelloDoctor Home About Us Contact Us

Update Profile

[GO BACK](#)

Username	<input type="text" value="shilpa"/>
First Name	<input type="text" value="shilpa"/>
Last Name	<input type="text" value="s"/>
Email	<input type="text" value="sspawale14@gmail.com"/>
Date of Birth	<input type="text" value="23-06-2000"/>
Blood Group	<input type="text" value="O+"/>
Mobile	<input type="text" value="9503736395"/>
Area	<input type="text" value="Pune"/>
City	<input type="text" value="Pune"/>
State	<input type="text" value="Maharashtra"/>

[UPDATE](#)

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Windows taskbar: Type here to search, 25°C Light rain, 04:39 PM 30-09-2021

Search for blood donor by Patient

The screenshot displays a web browser window with the URL `localhost:3000/get-donors-by-city-and-blood-group`. The page title is "Blood Donor Information". The form includes a "City" input field with "Mumbai" entered, a "Blood Group" dropdown menu with "B+" selected, and a "Submit" button. A "GO BACK" button is also present. Below the form is a table with the following data:

Name	Email	Contact Number	Blood Group
bd4	bd4@gmail.com	9809789898	B_POSITIVE

The browser's taskbar at the bottom shows the Windows logo, a search bar, and several application icons. The system tray indicates the date and time as "04:40 PM 30-09-2021" and the weather as "25°C Light rain".

Conclusion

This project helps in making paperless activities. It reduces the workload from Doctor and Receptionist. It provides more ease and flexibility to Doctor, Administrator and Receptionist. This digitalization has reduced costs of Hospital. This work has created a little awareness and promotes the idea that the concept of paperless office is reality. Online appointment helps to reduce people's wastage of time and also reduce the crowd at hospitals specially in this pandemic.

Future Scope

The Project can be further extended to provide it with a reliable and genuine Payment System. Also, the project can be extended in to allow the tracking of the locations of hospitals. Many other functionalities such as subscribing to future events, online consultation make the system more efficient and more reliable.

7.0 References

- [1] Google for problem solving
- [2] Head First Java 2nd Edition
- [3] <http://www.javatpoint.com/java-Latorial>
- [4] <http://www.tutorialspoint.com/mysql/>
- [5] <https://www.w3schools.com/>
- [6] <https://www.geeksforgeeks.org/>