



**AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
*Department of Computer Science and Engineering*

DATABASE LAB  
CSE3104

FINAL PROJECT REPORT

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## COVID-19 Helpline

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Submitted by

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# 1 Introduction

The name of our project is COVID-19 Helpline. It will help mass people by providing COVID-19 emergency services and information. They will get all the information related to Plasma, Oxygen, Doctor, ICU and Ambulance. People can get easy access to the much needed services and information at the time of emergency in this pandemic situation.

# 2 Objective

Our goal is to help people by providing information and services at emergency moment. We are trying to provide all the important information like Plasma, Oxygen, Doctor, ICU and Ambulance at one platform related to COVID-19. At emergency moments people become more helpless and can not set their immediate action to perform without proper information. Many lives can be saved by taking proper initiatives at the right time. We are going to perform that duty by providing correct information and contribute to overcome this pandemic situation.

# 3 Features

Following is the main features of our project:

- Information about available Plasma Donors.
- Information about Oxygen providers and their stocks.
- Doctors information for emergency consultation.
- Information about available ICU's at the hospitals.
- Emergency Ambulance service information.
- User Profile and information about users health.
- Messaging between different users.

# 4 Entity-Relationship Diagram

Following are the Entities, Relationships and Attributes:

## 4.1 Entity and its attributes

Entities are listed below:

### 4.1.1 Entity-01: User

- UserID
- UserName
- UserAge
- UserMobileNo
- UserAddress
- UserGender
- UserBloodGroup
- UserCovidStatus
- UserAffectedDate
- UserRecoveryDate

- DoctorID
- UserEmail
- UserPassword

#### 4.1.2 Entity-02: Doctor

- DoctorID
- DoctorName
- HospitalID
- DoctorGender
- DoctorMobileNo
- DoctorAvailableDay
- DoctorAvailableTime

#### 4.1.3 Entity-03: Hospital

- HospitalID
- HospitalName
- HospitalAddress
- HospitalContactNo
- NumberOfICU
- NumberOfAmbulance

#### 4.1.4 Entity-04: Ambulance

- AmbulanceID
- HospitalID
- AmbulanceMobileNo
- AmbulanceAvailability
- AmbulanceRent

#### 4.1.5 Entity-05: Plasma

- UserID
- DonorStatus

#### 4.1.6 Entity-06: OxygenProvider

- ProviderID
- ProviderName
- ProviderAddress
- ProviderContactNo
- ProviderAvailableStock
- PricePerUnit

**4.1.7 Entity-07: ICU**

- ICUID
- HospitalID
- ICUAvailability
- CostPerDay

**4.2 Relationship**

Relationships are listed below:

**4.2.1 Relationship-01: Assigned**

Between User and Doctor entities.

**4.2.2 Relationship-03: Donate**

Between User and Plasma entities.

**4.2.3 Relationship-04: Buy**

Between User and OxygenProvider entities.

**4.2.4 Relationship-05: Work**

Between Doctor and Hospital entities.

**4.2.5 Relationship-06: Owns**

Between Hospital and ICU entities.

**4.2.6 Relationship-07: Has**

Between Hospital and Ambulance entities.

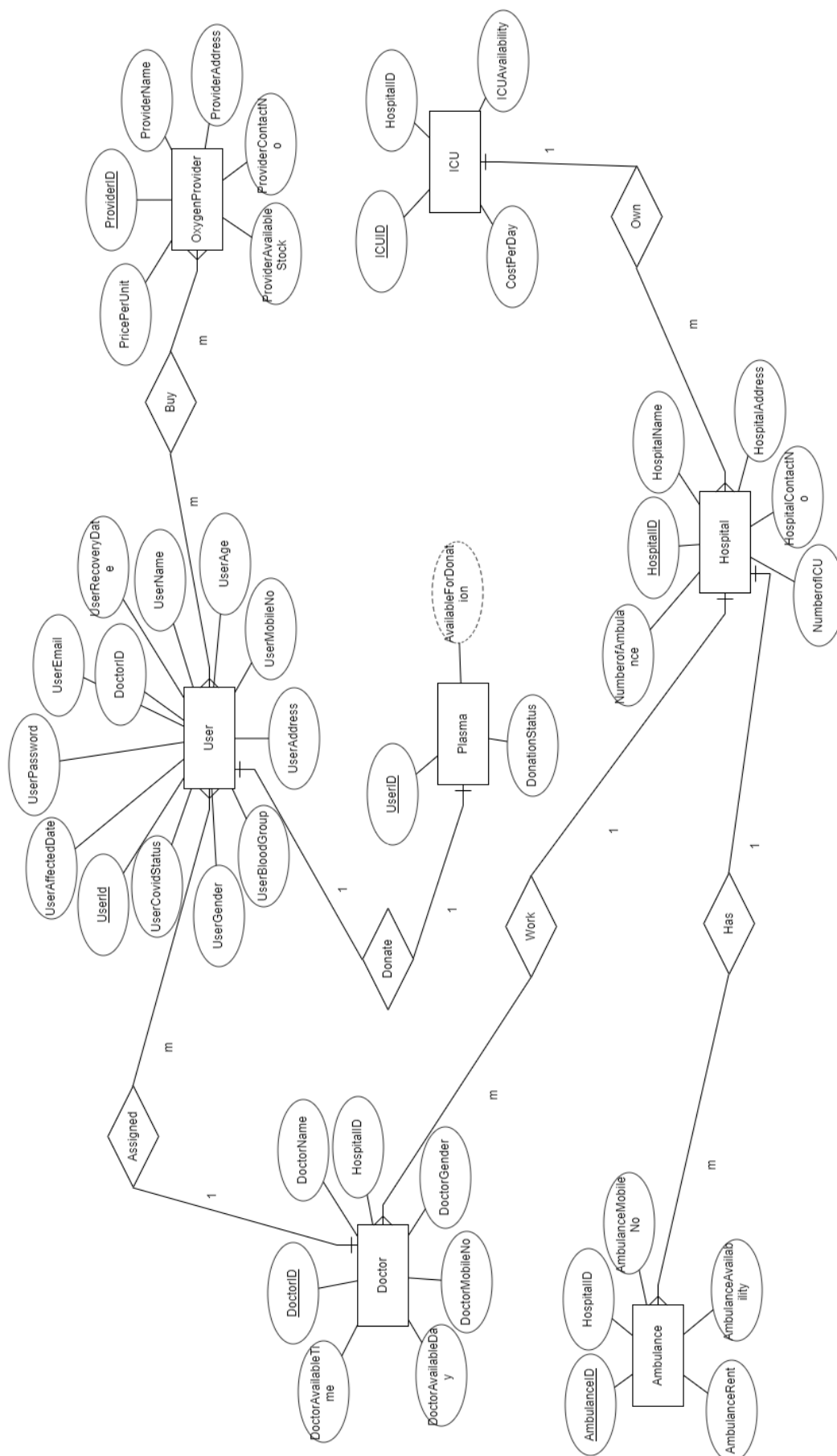


Figure 1: E-R diagram of COVID-19 Helpline

## 5 Project Snapshots of Different Interfaces

Snapshots from the project:

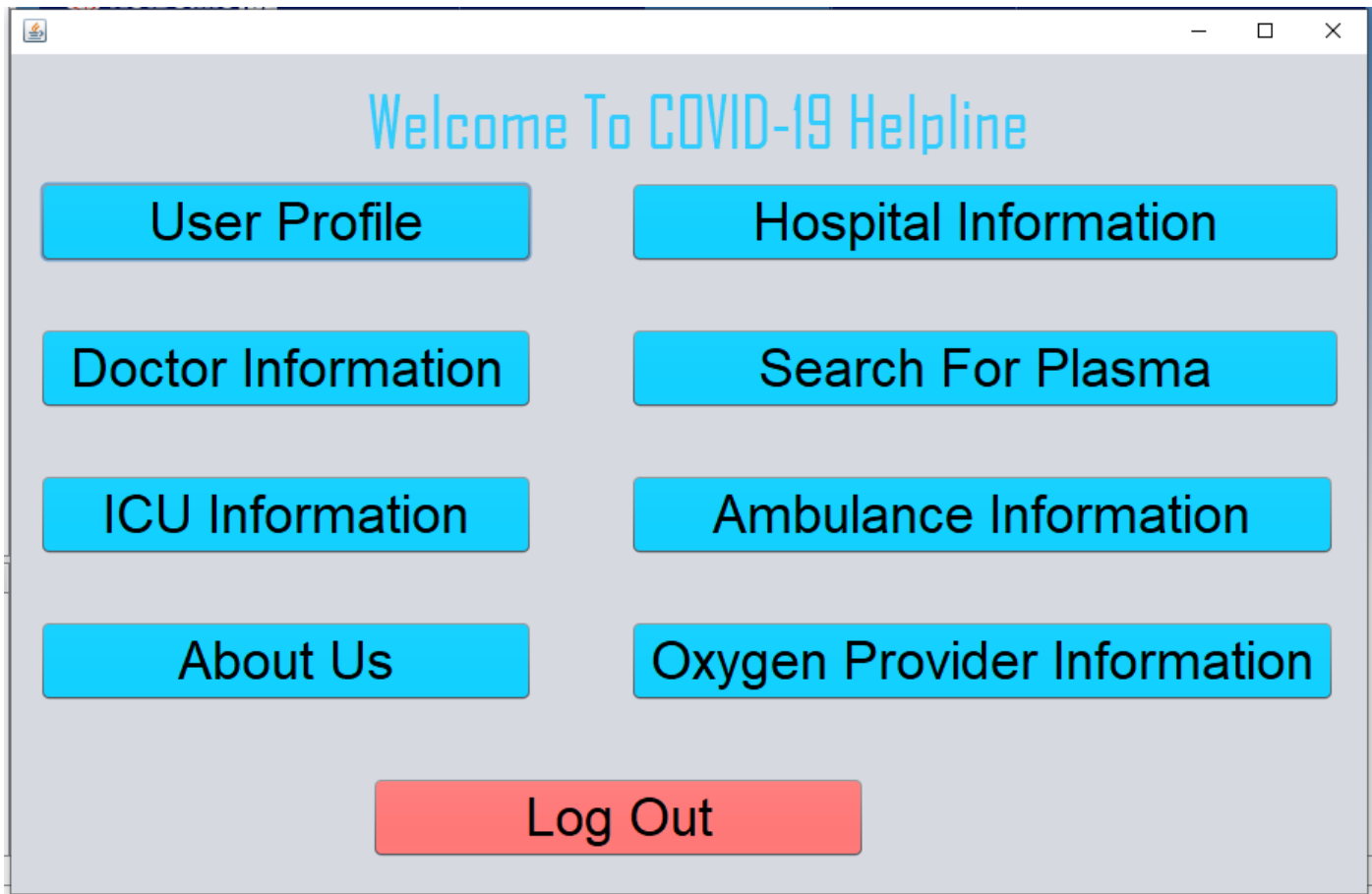
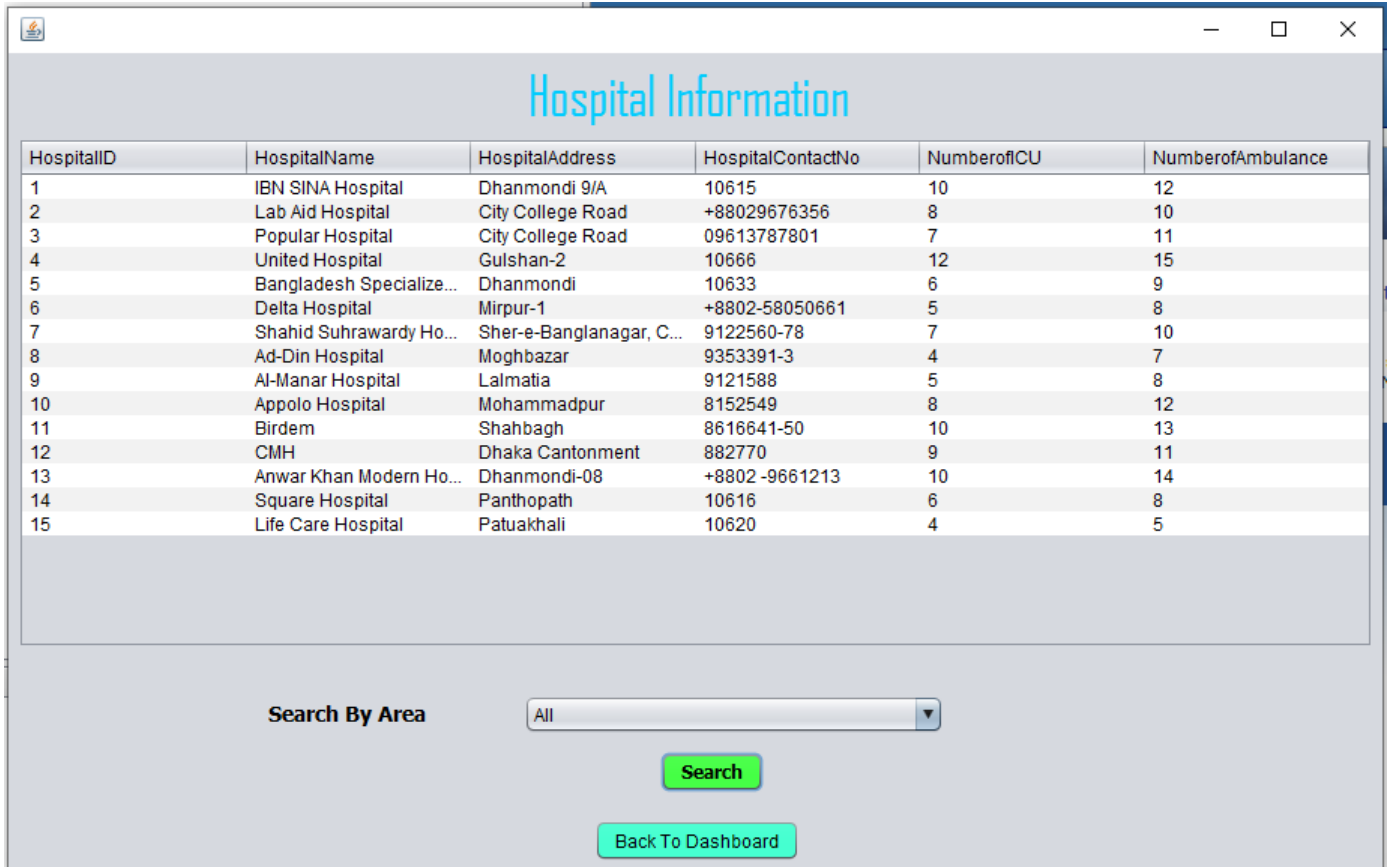


Figure 2: DashBoard of the app

User will come to the DashBoard after logging in. They can access different sections from here.



### Hospital Information

HospitalID	HospitalName	HospitalAddress	HospitalContactNo	NumberofCU	NumberofAmbulance
1	IBN SINA Hospital	Dhanmondi 9/A	10615	10	12
2	Lab Aid Hospital	City College Road	+88029676356	8	10
3	Popular Hospital	City College Road	09613787801	7	11
4	United Hospital	Gulshan-2	10666	12	15
5	Bangladesh Specialize...	Dhanmondi	10633	6	9
6	Delta Hospital	Mirpur-1	+8802-58050661	5	8
7	Shahid Suhrawardy Ho...	Sher-e-Banglanagar, C...	9122560-78	7	10
8	Ad-Din Hospital	Moghbar	9353391-3	4	7
9	Al-Manar Hospital	Lalmatia	9121588	5	8
10	Appolo Hospital	Mohammadpur	8152549	8	12
11	Birdem	Shahbagh	8616641-50	10	13
12	CMH	Dhaka Cantonment	882770	9	11
13	Anwar Khan Modern Ho...	Dhanmondi-08	+8802 -9661213	10	14
14	Square Hospital	Panthopath	10616	6	8
15	Life Care Hospital	Patuakhali	10620	4	5

**Search By Area**

All

▼

Search

Back To Dashboard

Figure 3: Hospital Information Section

User can get hospital informations from here.They can also search hospital by their respective areas.



The screenshot shows a web application window titled "SearchForPlasma". At the top, there is a table with the following data:

ID	Name	Blood Group	Address	Mobile No.	Plasma Availab...
4	Sakib	O-	Dhanmondi	01521101698	Yes

Below the table, there are search filters:

- Search By Blood Group:** A dropdown menu with "All" selected.
- Search By Address:** A dropdown menu with "Dhanmondi" selected.

A green **Search** button is located below the filters.

Below the search button, there are two links: **Update your Donation Status** (in blue) and **Send Request For Plasma** (in green).

Under the "Send Request For Plasma" link, there are two input fields:

- Enter Plasma Donor ID:** A text input field containing the number "4".
- Enter Message:** A text area containing the message "Hello Sakib, Can You help me?".

Below the message input field is a blue **Send** button. In the bottom right corner of the window is a red **Back** button.

Figure 4: Plasma Information Section

User can search for plasma here by blood groups or by areas. They can also send messages to other users.



**User Profile**

<b>Name:</b>	<b>Rakibul Islam</b>
<b>Email:</b>	<b>180104072@aust.edu</b>
<b>Gender:</b>	<b>Male</b>
<b>Age:</b>	<b>22</b>
<b>Address:</b>	<b>Shangkar,Dhaka.</b>
<b>Blood Group:</b>	<b>B+</b>
<b>Phone No:</b>	<b>01521101691</b>
<b>Covid19 Status:</b>	<b>Affected</b>
<b>Covid19 Affected Date:</b>	<b>2021-03-04</b>
<b>Covid19 Recovery Date:</b>	<b>2021-09-04</b>

[Update Personal Info](#)

[See your messages](#) [Purchase History](#)

[Back To Dashboard](#)

Figure 5: User Profile Section

User can see and update their profile from here.They can also see their messaging history,purchase history etc.

**INBOX**

**Messages you Recieved:**

Sender Name	Sender Blood Group	Sender Mobile No.	Sender Address	Message
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**Messages you Sent:**

Reciever Name	Reciever Blood Group	Reciever Mobile No.	Reciever Address	Message
Kamrozzaman Bhuiyan	A+	01846080456	Mohakhali,Dhaka.	Hello Kamrozzaman.

[Back](#)

Figure 6: Inbox Section

User can see the messages sent and received by them.

## 6 Conclusion and Future Works

The user will get all the necessary information in one platform. It will be very helpful for the people in this pandemic situation. We hope that this software will fulfill the needs of information and services by interaction between the users of this platform.

We have plans to develop an android app of this project having some more advanced features.