Ahsanullah University of Science and Technology
Department of Computer Science and Engineering

Database Lab
CSE3104

Final Project Report

COVID-19 Helpline

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

- <u>UserID</u>

- UserName

- UserAge

- UserMobileNo

- UserAddress

- UserGender

- UserBloodGroup

- UserCovidStatus

- UserAffectedDate

- UserRecoveryDate

- DoctorID
- UserEmail
- UserPassword

4.1.2   Entity-02: Doctor

- <u>DoctorID</u>
- DoctorName
- HospitalID
- DoctorGender
- DoctorMobileNo
- DoctorAvailableDay
- DoctorAvailableTime

4.1.3   Entity-03: Hospital

- <u>HospitalID</u>
- HospitalName
- HospitalAddress
- HospitalContactNo
- NumberOfICU
- NumberOfAmbulance

4.1.4   Entity-04: Ambulance

- <u>AmbulanceID</u>
- HospitalID
- AmbulanceMobileNo
- AmbulanceAvailability
- AmbulanceRent

4.1.5   Entity-05: Plasma

- <u>UserID</u>
- DonorStatus

4.1.6   Entity-06: OxygenProvider

- <u>ProviderID</u>
- ProviderName
- ProviderAddress
- ProviderContactNo
- ProviderAvailableStock
- PricePerUnit

4.1.7   Entity-07: ICU

- <u>ICUID</u>

- 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.
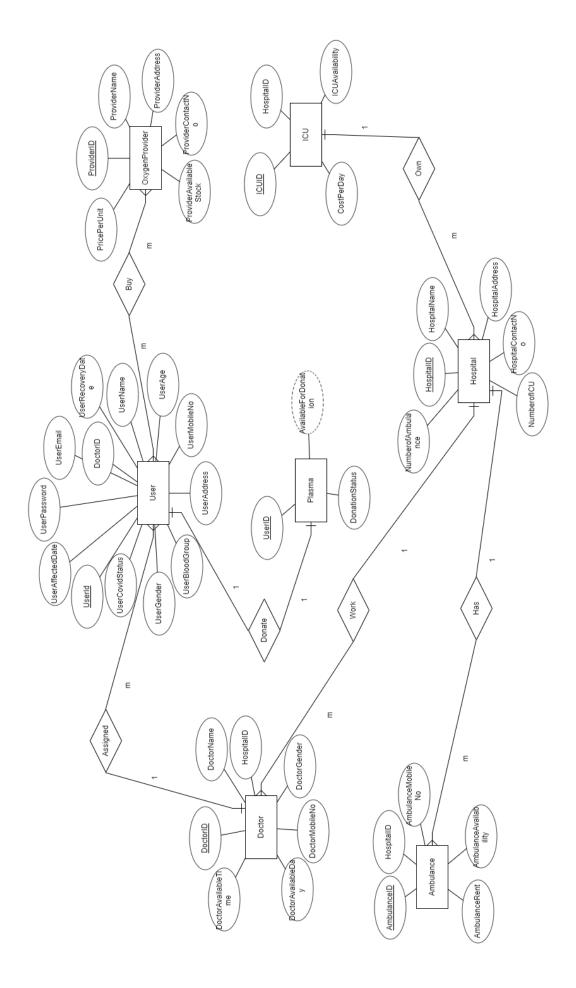
4.2.4   Relationship-05: Work

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

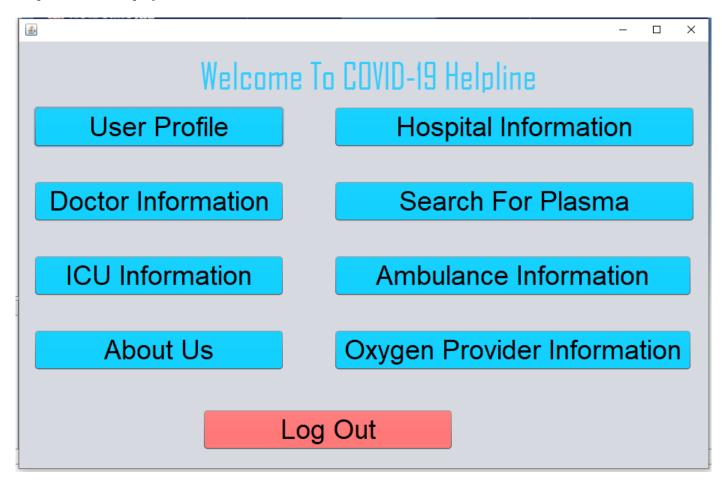# 5   Project Snapshots of Different Interfaces

Snapshots from the project:

Figure 2: DashBoard of the app

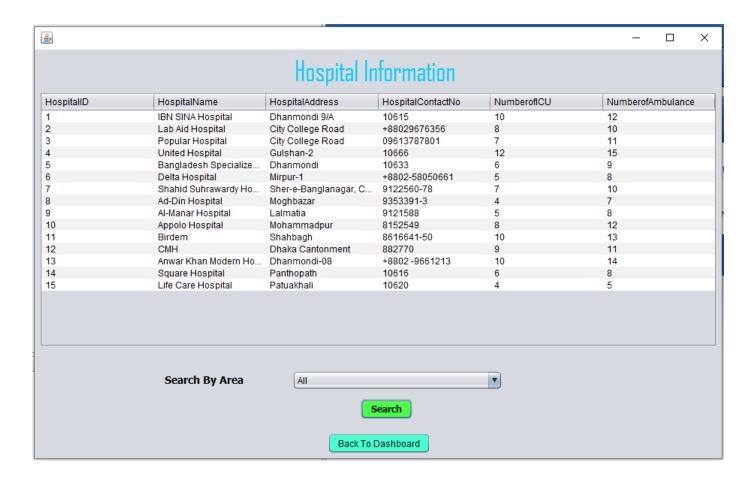User will come to the DashBoard after logging in.They can access different sections from here.

Figure 3: Hospital Information Section

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

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.
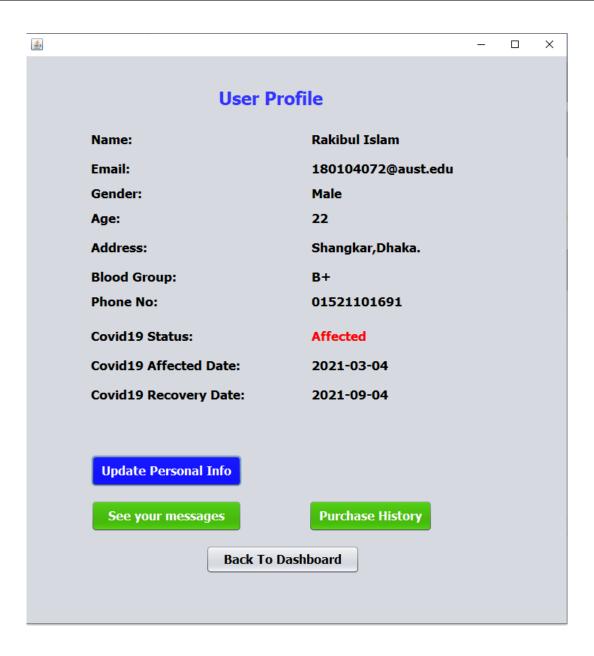
Figure 5: User Profile Section

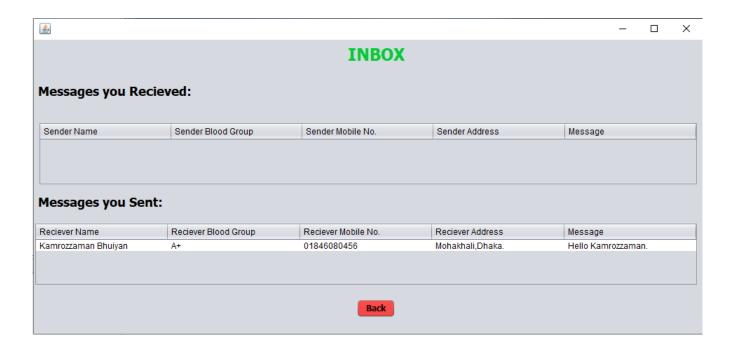User can see and update their profile from here.They can also see their messaging history,purchase history etc.

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.