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

DATABASE LAB
CSE3104

INTRODUCTORY PROJECT REPORT

# COVID-19 Helpline

Submitted by

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# Contents

# 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.

# 4    Entity-Relationship Diagram

Following are the possible Entities,Relationships and Attributes:

## 4.1    Entity and its attributes

Possible 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

Possible 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.

# 5   Conclusion

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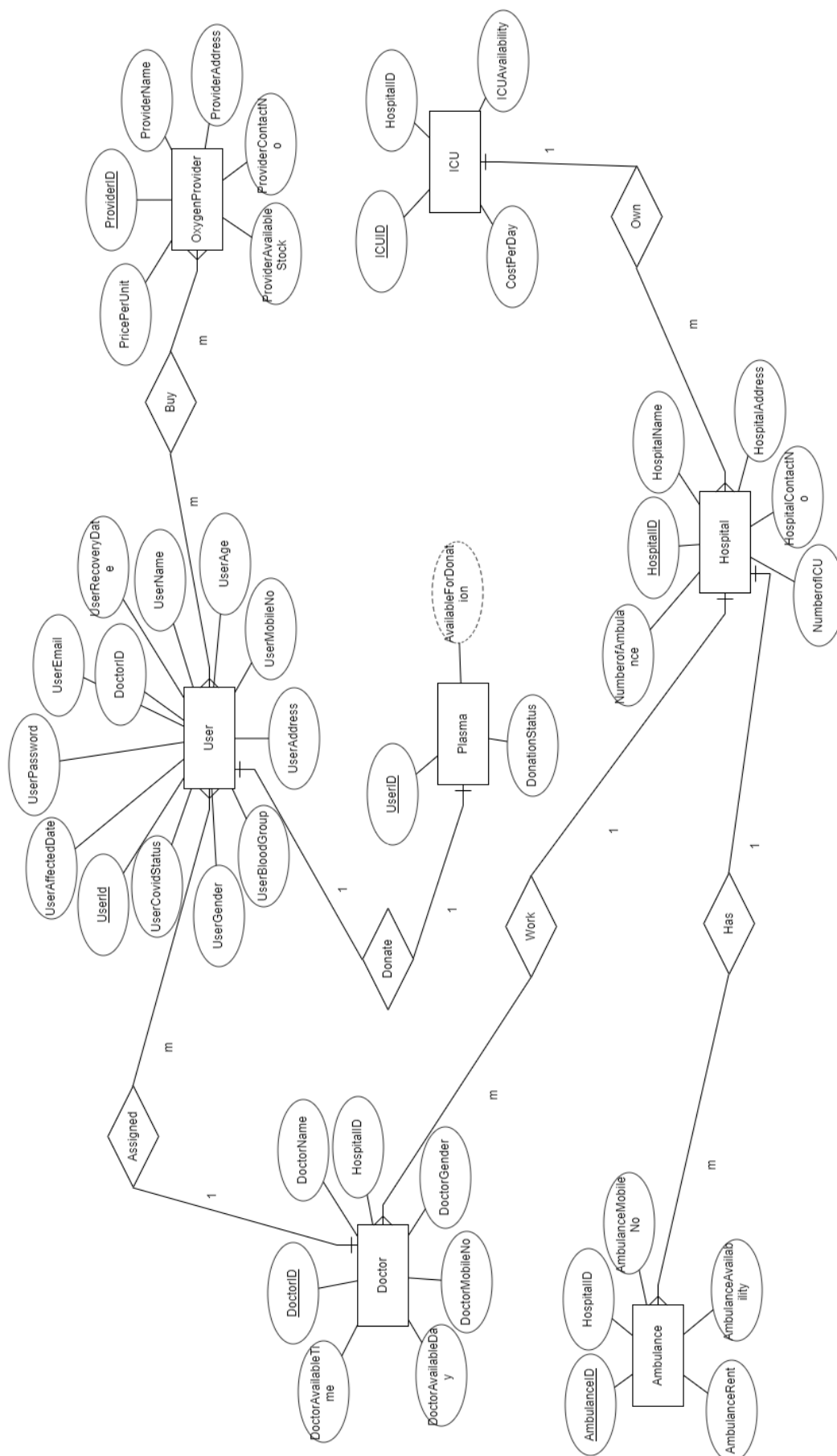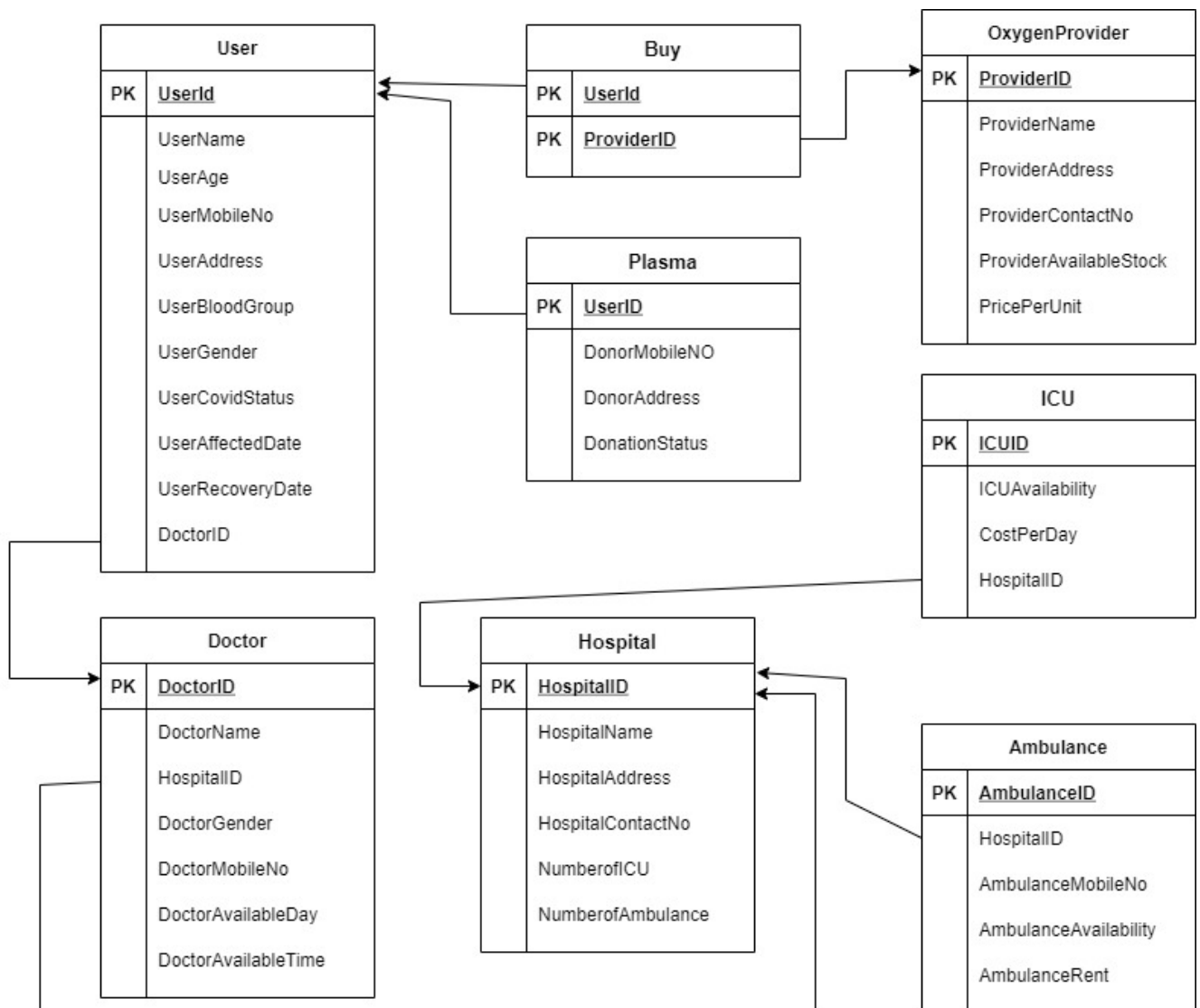
Figure 1: E-R diagram of COVID-19 Helpline

Figure 2: Schema diagram of COVID-19 Helpline