



(An Autonomous Institute affiliated to Savitribai Phule Pune University)

Academy of  
Engineering

## **SOFTWARE PROTOTYPING REPORT**

ON

**“Recruitment of volunteers”**

Submitted by

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SCHOOL OF COMPUTER ENGINEERING AND TECHNOLOGY

MIT ACADEMY OF ENGINEERING

ALANDI (D), PUNE

2020 – 2021

**MIT ACADEMY OF ENGINEERING**

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**CERTIFICATE**

1. This is to certify that the software prototype project entitled **“Recruitment of Volunteers”** has been carried out by Ketaki Mankar ( 65) Tanisha Nazare (61)Sharwari Ambade (67) under the guidance in partial fulfilment of Second Year School of Computer Engineering and Technology of Savitribai Phule Pune University, Pune during the academic year 2019-2020.

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## **ABSTRACT**

As we are in the virtual mode we get to know that the doctors are facing difficulties in treating abundant amount of patients, as the patients are increasing day by day and they have to survive taking care of them the whole day, so availability of qualified volunteers is increasing for taking care of these corona patients. This project is aimed at developing an app for the people who are looking for work or are interested in volunteering themselves for the people suffering from corona and also by looking at the unavailability of many resources like beds, ventilators, etc.

So this app would help doctors and the hospitals to get volunteers or helpers based on their qualification so that according to their qualification, the work will be assigned. Works like bringing patients (transport system), applying syringes, daily check-up of patients, cooking food, oxygen-BP-sugar level check-up, etc.

They can register through this app with their data and then it would gather all their data and would compare their qualification with the work required to the doctors in different domains and would assign them work as per their needs.

Functional component of the project:

They will be assigned their work as per their knowledge limit for good and safe pharmacy.

People should register before they could fill this application.

## Chapter No. 1 **INTRODUCTION**

### 1.1 Problem Statement :

Increase in percentage of Corona cases gives rise in increasing the availability of helpers and volunteers. For prescribed medicine and day to day assistance helpers can be assigned in a faster way.

Another challenge is to collect all the information of the volunteers and store all the data, and also provide them their work as per their qualification.

This system will maintain all the records of volunteers/helpers and the work assigned for each and every person.

### 1.2 Background and Motivation :

Current situation of the world facing the deadly disease (Corona) gave us the motivation for development of an Application. Not only doctors but other companies can also assign work through this app for helpers.

This software allows people who have register in the application. This app can also help in giving unemployed people employment.

This system brings about an easy way of maintaining the details of helpers/volunteers for the doctors and also for their hospitals. It is simple to understand and can be used by anyone who is not even familiar with this. It is user friendly and just asks the user to follow step by step operations by giving easy to follow options. It is fast and can perform many operations.

It is a password protected system. Where your details as well as your qualification reports can only accessed by you (can view) and your respective doctors/hospital staff. (Can edit)

### 1.3 AEIOU Framework:

AEIOU Framework:

Sheet No: 01

#### **ACTIVITIES**

**Problem Statement:** Recruitment of volunteers

#### **Group Members: -**

Tanisha Nazare B-61

Ketaki Mankar B-65

Sharwari Ambade B-67

#### **GENERAL OBSERVATIONS: -**

Just Ask. People liked being asked to volunteer.

Respond to volunteers.

Gathering and scanning information.

Create a list of individuals you feel work best for individual hospitals.

Respond to them to volunteer.

All the activities are done on paper work so a lot of papers are wasted.

Helpers information stored at the HOD of the institute making it difficult to access the information when needed at short notice.

#### **SUMMARY OF ACTIVITY: -**



#### **SPECIAL OBSERVATIONS: -**

1. People are required to fill in a form which may take several days or weeks to be approved and get their job.

2. The use of paper work in handling some of these processes could lead to human error, papers may end up in the wrong hands and not forgetting the fact that this is time consuming.



AEIOU Framework:

Sheet No: 02

## ENVIRONMENT

**Problem Statement:** Recruitment of volunteers

### Group Members: -

Tanisha Nazare B-61

Ketaki Mankar B-65

Sharwari Ambade B-67

### GENERAL OBSERVATIONS: -

1. Manual handling of helpers data in this Covid-19 situation leaves applications poses a number of challenges
2. It is difficult for the staff to easily maintain the record of their staff members and them their work.
3. Manually, it is time consuming process.

### SPECIAL OBSERVATIONS: -

Online recruitment is cheaper and more efficient, faster than offline modes and it does not have privacy and authority access.

### SUMMARY OF ACTIVITY: -



**INTERACTION**

**Problem Statement:** Recruitment of volunteers

**Group Members: -**

Tanisha Nazare B-61

Ketaki Mankar B-65

Sharwari Ambade B-67

**GENERAL OBSERVATIONS: -**

Today doctors are facing lot of problems. They have to spend their whole day in treating the patients and taking care of them. And doctors have to stay in hospital or the whole day hence the management is very poor.

**SUMMARY OF ACTIVITY: -**



**SPECIAL OBSERVATIONS: -**

No other option for doctors they have to stay in hospitals for the whole day by ignoring their own health.





**OBJECT**

**Problem Statement:** Recruitment of volunteers

**Group Members: -**

Tanisha Nazare B-61

Ketaki Mankar B-65

Sharwari Ambade B-67

**GENERAL OBSERVATIONS: -**

1. As in this pandemic it is difficult to interact with people we are going in virtual mode
2. It is difficult to interact and manage the records of the candidate hence it is stored in database

**SUMMARY OF ACTIVITY: -**



**SPECIAL OBSERVATIONS: -**

1. In today's system staff once the volunteers are assigned then they can take care of patients health and it reduces half of the work of doctors



**USER**

**Problem Statement:** Pre-Leave Management System

**Group Members: -**

Manjusha Zanke	B626
Swati Sawant	B628
Pooja Kaulge	B633
Aditi Vasaikar	B634

**GENERAL OBSERVATIONS: -**

1. Candidates applying for volunteering
2. Admin
3. Doctors

**SUMMARY OF ACTIVITY: -**



**SPECIAL OBSERVATIONS: -**

1. Features like notification of email once they are selected, Whatsapp groups for information, google forms, are only possible in virtual mode and it uses less time



## Chapter No. 2 **REQUIREMENT ANALYSIS**

### 2.1 User Requirements

- Easy to find volunteers during this pandemic
- Less paper work
- Time Efficient
- Cost efficient
- Flexible to use (anytime, anywhere)

### 2.2 Functional Requirements

- The application should maintain the record of candidates
- Easy handling by users ,doctors
- Notifications should be received on time by users through mail

### 2.3 SRS

Customer needs :

1. A homepage for login signup
2. After login, user module should be accessible to the user
3. Forget password option
4. Enrolling the new user
5. Candidate have to fill all their necessary details
6. Validate answers must be provided
7. Documents should be attached where ever necessary
8. History should be maintained of each candidate applying for volunteering
9. Each responses of candidate applying should be sent through mail

## 1. Home page login -----

### ☐ Input :

- credentials

### ☐ Output :

- access to portal

### ☐ Precondition:

- User Should be already Registered

### ☐ Post Condition:

- User should get access to portal , Invalid Password

## 1. Register a new Candidate ----

### ☐ Input :

- Candidate Details:

1. First Name
2. Middle name
3. Last name
4. Qualification (Studied till..)
5. Mobile Number
6. Date of birth
7. Email-Id
8. Attached docs

### ☐ Output:

- Details Save to Database

### ☐ Precondition :

- Mobile no. and email-id not already used

### ☐ Post condition:

- Details Can't be registered due to technical issues

## 1. User's Login-----

☐ Purpose : Access to the portal

### a) Input :

☐ Credentials:

- ☐ The system prompts the user for their username and password
- ☐ The system gets password registered to the user name

### b) Output:

- ☐ The system verifies the password and sets the user authorization
- ☐ The user is given access to the system

☐ Precondition:

- ☐ User should be logged in

☐ Post condition :

- ☐ Admin will either agree or disagree with the application

## 1. Edit profile-----

### • Input:

- Change the details

### • Output:

- Update the database

### • Precondition

- User should be already registered

### • Post condition

- View the updated details

## 5.Admin Login-----

Purpose : Access to the portal with username and password, Invalid password

a. Input :

- Credentials:
  - The system prompts the user for their username and password
  - The admin enters username and password

a. Output:

- Access to portal and data should be visible for analyzing data

b. Precondition:

- Admin should be already Registered

c. Post Condition

- Admin should be able to access, validate and analyze data based on their qualification

1. Doctor's Login-----

- Input :

- Credentials:

- The system prompts the user for their username and password

- The admin enters username and password

- Output:

- Access to portal and data of all the candidates should be visible with their attachments
  - Approval to application

- Precondition:

- Doctor should be already Registered

- Post Condition:

- Doctor should be able to mark selected for the candidates profile

## 1. Admin Login-----

- ☐ Purpose : Access to the portal with username and password, Invalid password

### a. Input :

- Credentials:
  - The system prompts the user for their username and password
  - The admin enters username and password

### b. Output:

- Access to portal and data of all the candidates should be visible with their attachments

### c. Precondition:

- Admin should be already Registered

### d. Post Condition:

- Admin should be able to send mail once doctor has approved the candidates application

## 2.4 Limitations

- Only registered students can access this system.
- Mandatory access to Network.
- Only user's databased is maintain.

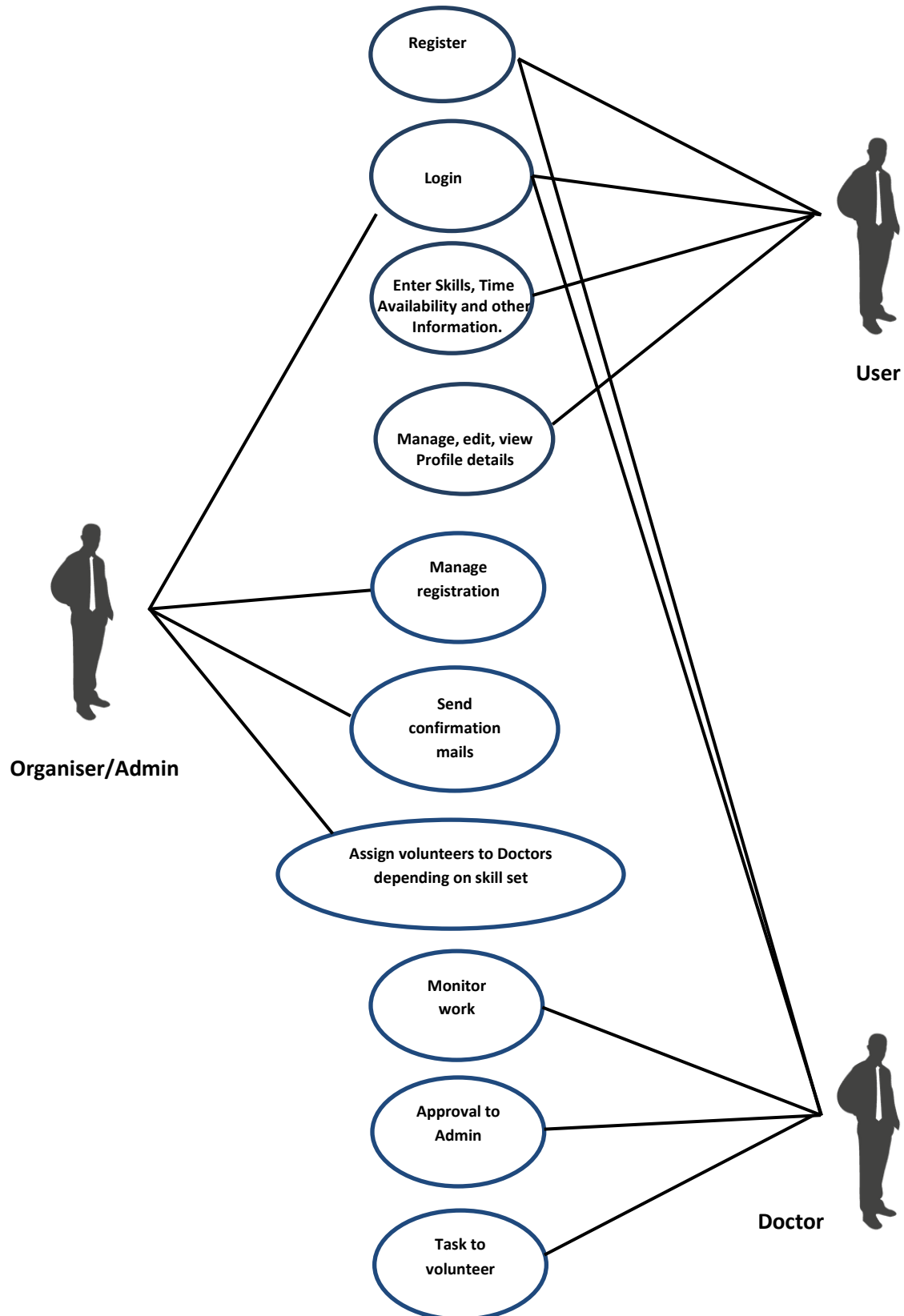
## 2.5 Analysis

- In a current system until and unless doctor will not approve the application volunteer would not be assigned.
- All the record of candidate will be stored and if it is approved by doctor then only admin will send a mail that You have assigned as a volunteer
- The activities done by the doctor's are so much and hence tto reduce the workload volunteers will be assigned

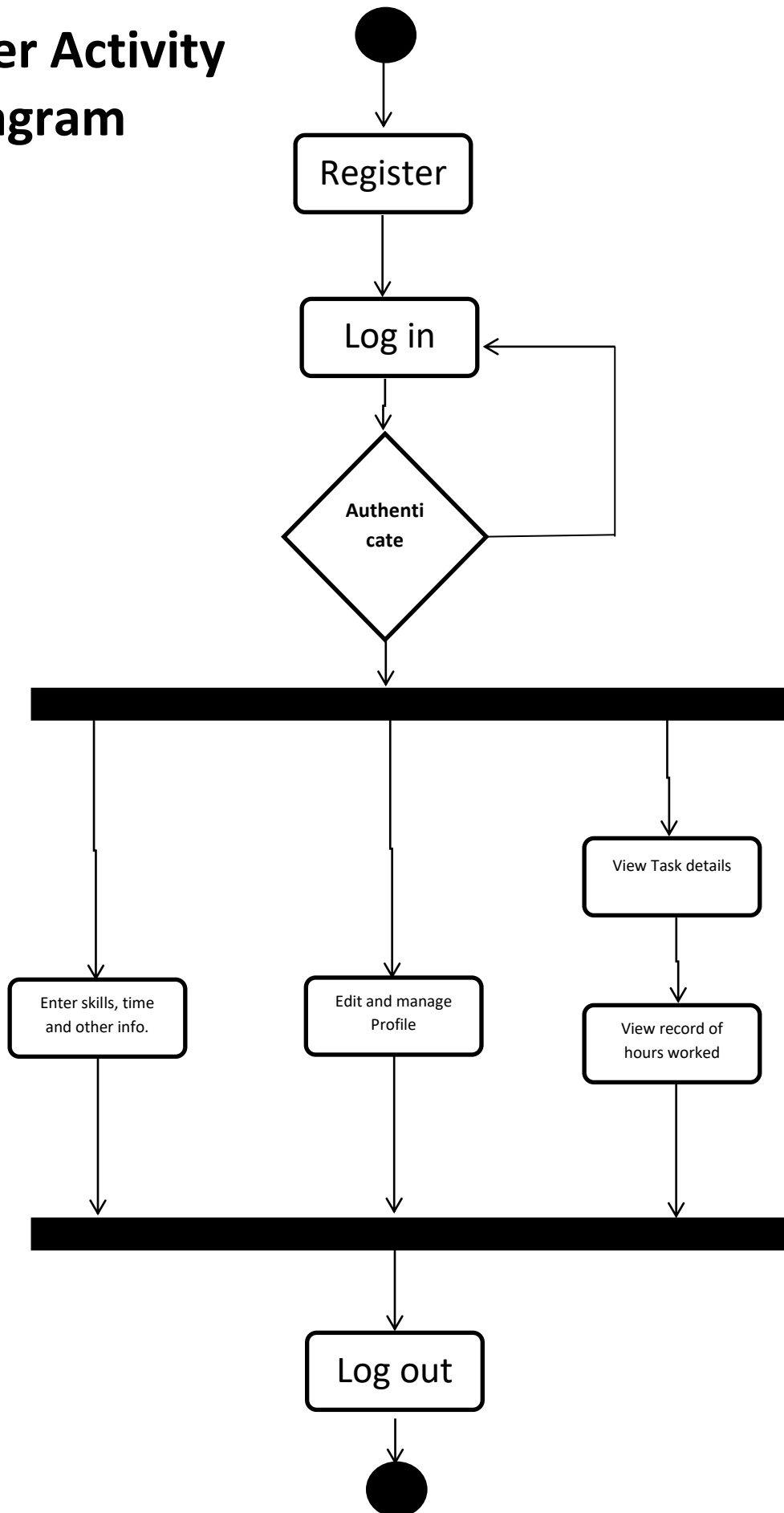


## Chapter No. 3 **DESIGN DOCUMENTS**

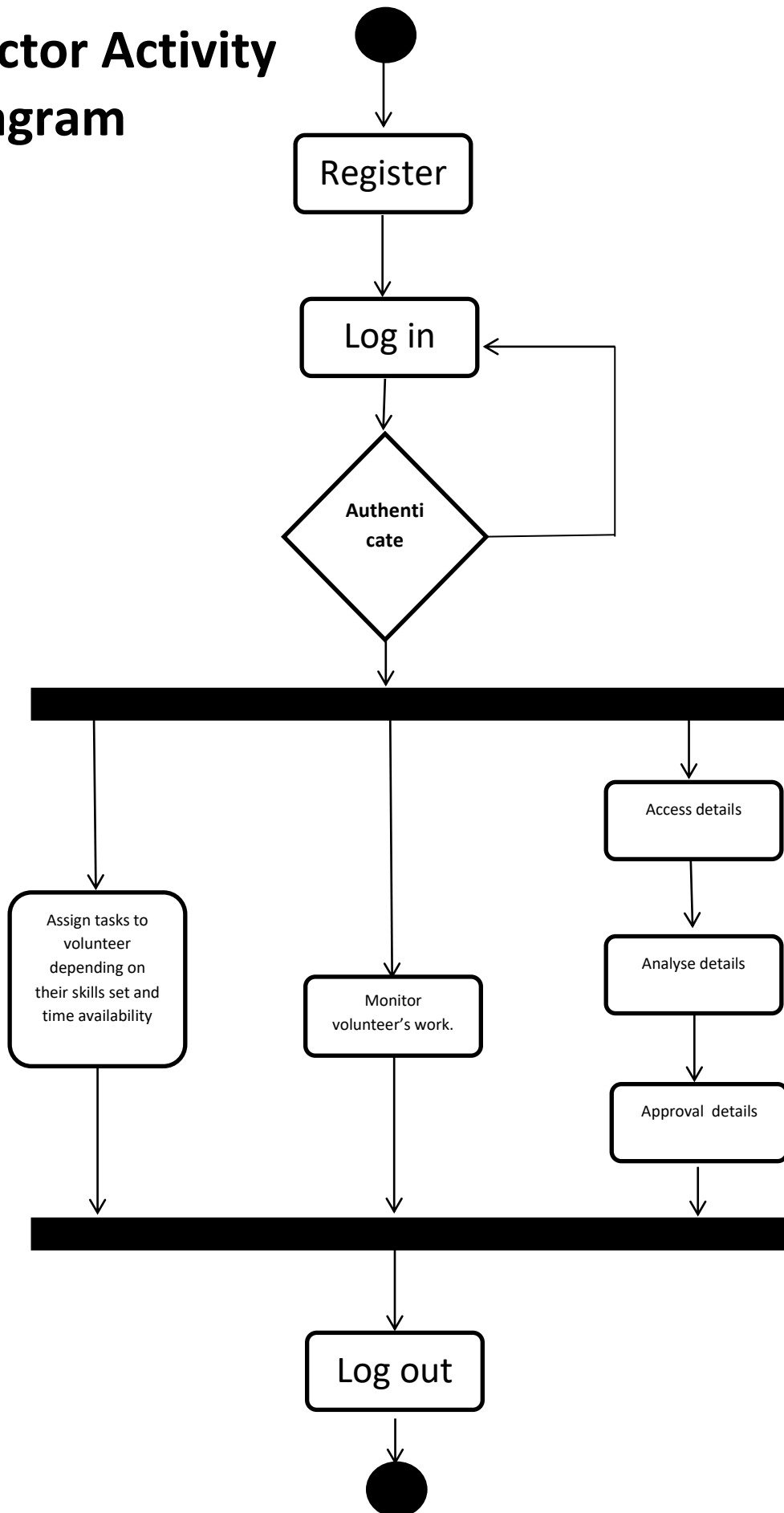
### 3.1 UML : Use Case Design, Sequence Design, Activity Design



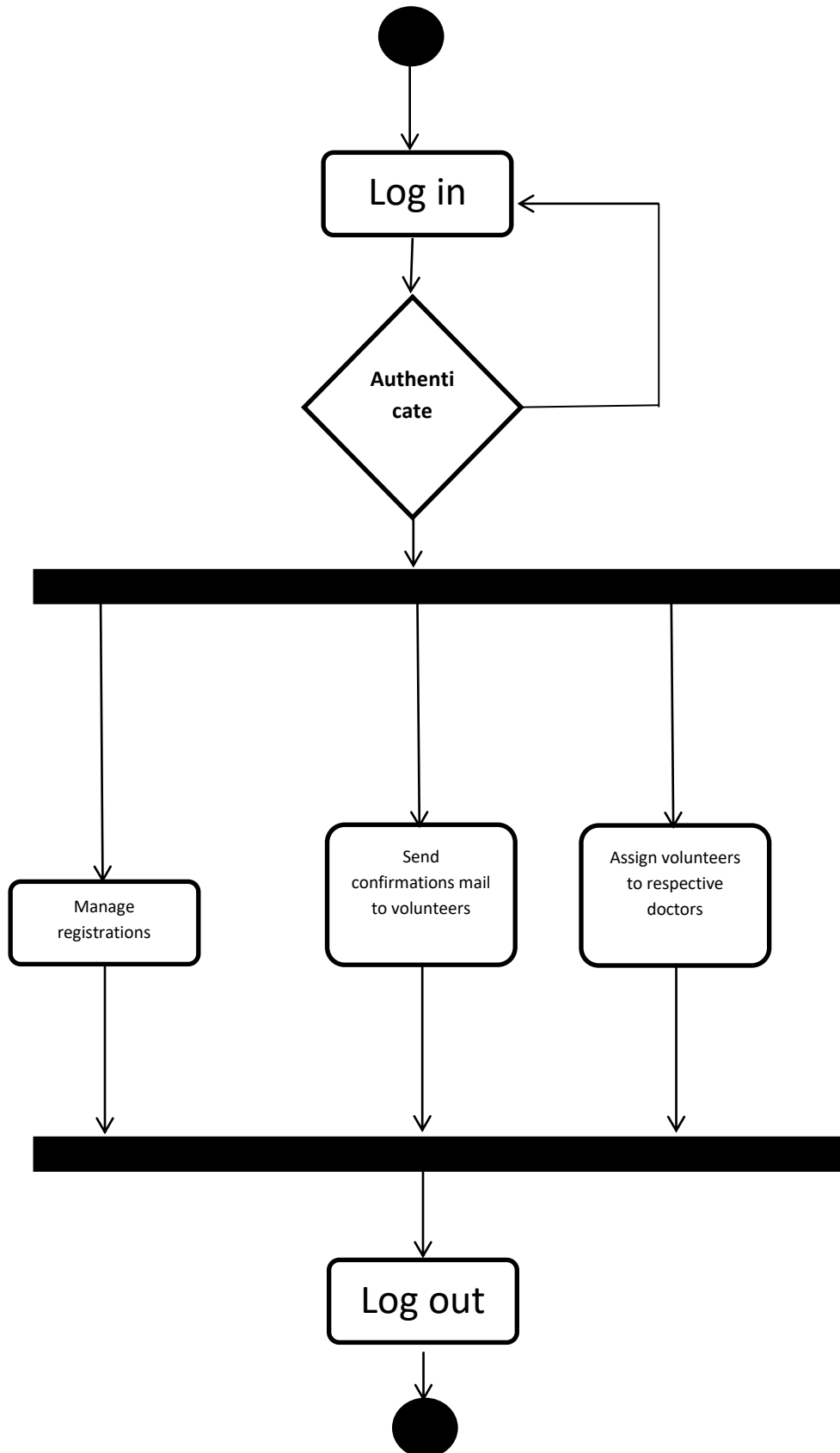
# User Activity Diagram



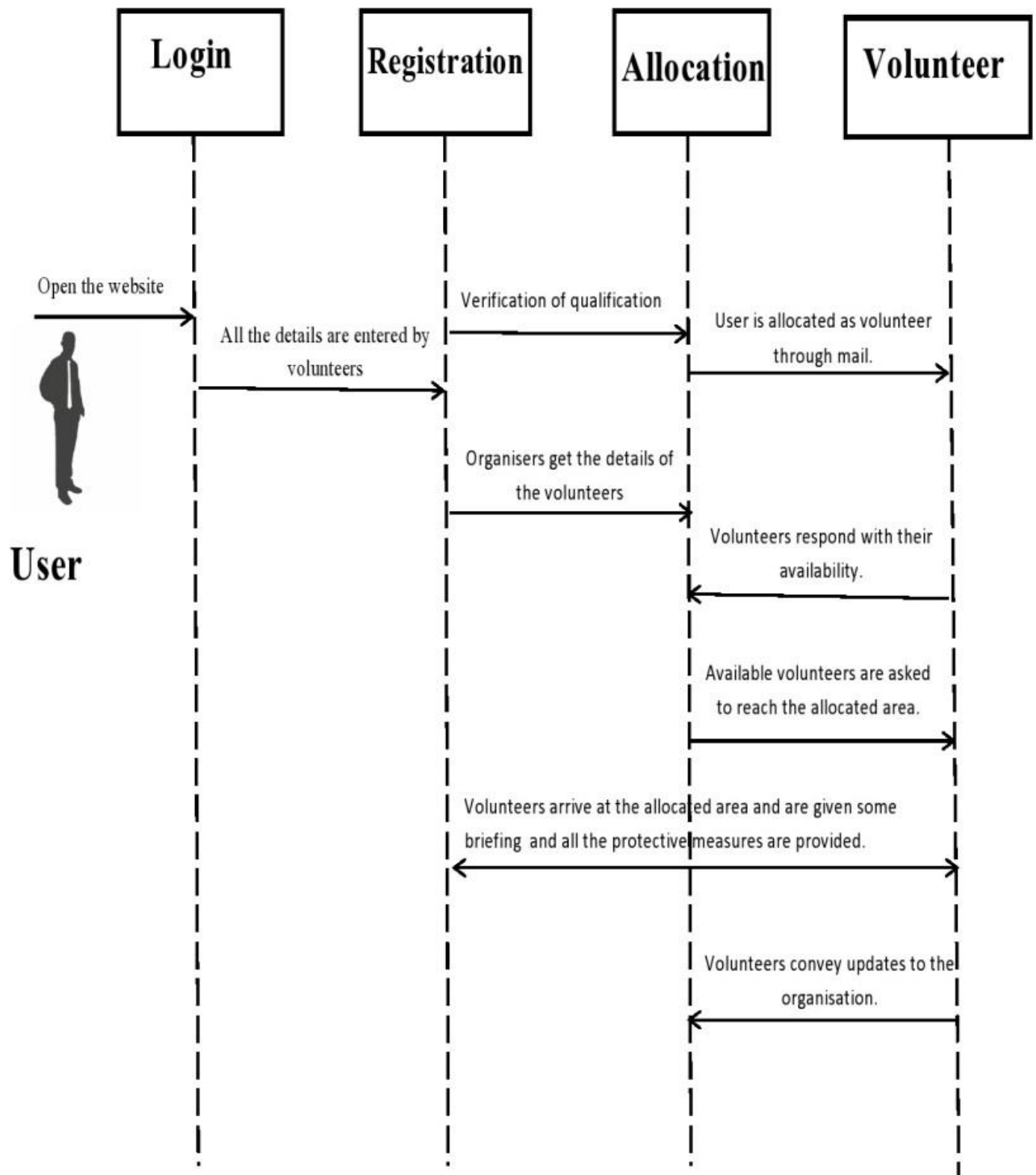
# Doctor Activity Diagram



# Admin Activity Diagram



## Sequence Diagram



### 3.2 Low Fidelity, High Fidelity

#### High Fidelity:

### Covid-19 Volunteer

Email

---

Password

---

Enter Captcha

---

Create an account

Log In

Find your account

Sign Up

Forgot Password?

### Find Your Account

Email/Mobile no

---

Enter OTP

---

New Password

---

Confirm Password

---

Done

Go to Home

```
graph LR; subgraph Login [Covid-19 Volunteer]; direction TB; Email1[Email]; Password1[Password]; Captcha[Enter Captcha]; LogIn[Log In]; SignUp[Sign Up]; Forgot[Forgot Password?]; end; subgraph Recovery [Find Your Account]; direction TB; Email2[Email/Mobile no]; OTP[Enter OTP]; NewPass[New Password]; ConfirmPass[Confirm Password]; Done[Done]; GoHome[Go to Home]; end; Forgot --> Email2;
```

**Create an account**

New  
Registration

Update Existing

Name

Email

Age

Address

Qualification

Contact No

Occupation

Working Time

Allergies

Menu  

---

---

---

**Home**

**About**

UNITY organisation is an NGO which works for the goodness and welfare of people.

As we are facing a pandemic, there are some people who are working very hard for improving conditions of people. And these warriors need a helping hand. This organisation helps them find the people who can help them in any ways. It's not important to help only in medical field. You can help in any of the field you are willing to help..

**Mail**

Dear XYZ,

You have been selected as a Volunteer for the covid-19 pandemic.

Area: ABC

Time: 10.00a.m-1.00pm

Welcome to the organisation.

Thank you.

Regards,

Unity Organisation

**About**

This organisation is found only to help the Covid-19 Warriors.

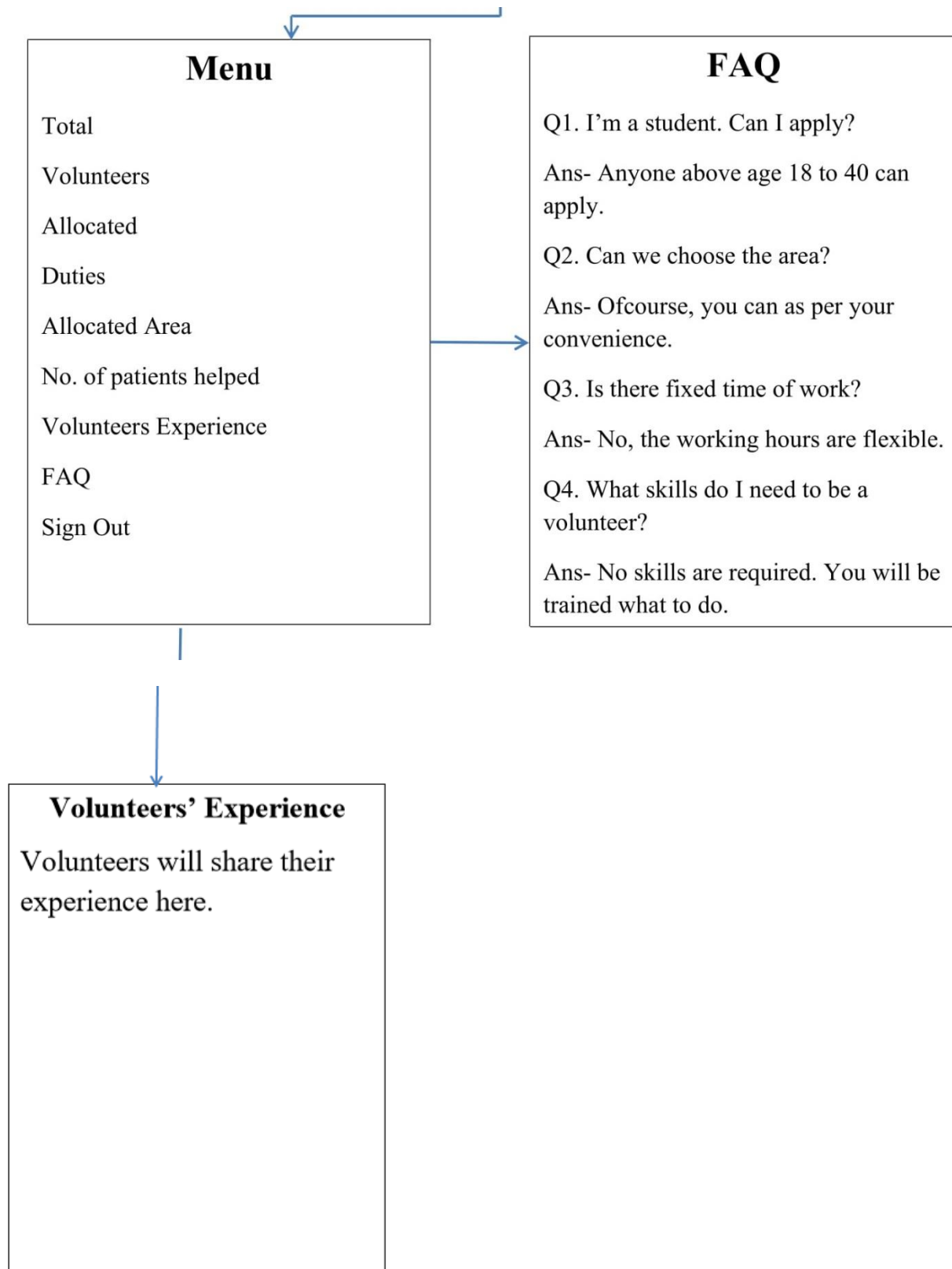
We try to reach out maximum people so that we can help them and also encourage others to help.

We provide all the facilities to the warriors and utmost care is taken of volunteers. PPE kit, hand wash, sanitizers, masks, gloves, etc. are provided to the volunteers.

Contact:

Email:unityorg@gmail.com

Contact No: 52345788654



### 3.3 Low Fidelity:



## Covid-Volunteer

Email

Password

Enter Captcha

**Log In**

**Sign Up**

**Forgot Password?**

## Find Your Account

Email/Mobile no

Enter OTP

New Password

Confirm Password

**Done**

**Go to Home**

## Create an account

Name

Email

Age

Address

Qualification

Contact No

Occupation

Working Time

Allergies

**Submit**

Menu

**Home**

**About**

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We try to reach out maximum people so that we can help them and also encourage others to help.

We provide all the facilities to the warriors and utmost care is taken of them. PPE kit, handwash, sanitizers, masks, gloves, etc. are provided to the volunteers.

Contact:

Email: [unityorg@gmail.com](mailto:unityorg@gmail.com)

Contact No: 52345788654

## Menu

Total Volunteers

Allocated Duties

Allocated Area

Volunteers Experience

FAQ

Sign Out

## Volunteers' Experience

Volunteers will share their experience here.

## FAQ

Q1. I'm a student. Can I apply?

Ans- Anyone above age 18 can apply.

Q2. Can we choose the area?

Ans- Ofcourse, you can.

Q3. Is there fixed time to work?

Ans- No, the working time is flexible.

Q4. What skills do I need to be a volunteer?

Ans- It's not important to be skilled. You will be taught what to do.

## **Mail**

Dear XYZ,

You have been selected as a Volunteer for the covid-19 pandemic.

You're requested to join the Whatsapp group by clicking on the link given below.

<http://joinmygroup.whatsapp>

Area: ABC

Time: 10.00a.m-1.00pm

Thank you.

Regards,

Unity Organisation

## Chapter No. 4 **WORKING PROTOTYPE UI DESIGN**

### 4.1 Screen shots

#### **iOS Home Screen**



**SCREEN 1**

A login screen with a light blue textured background. It features two input fields: 'Email Id' and 'Password'. Below the 'Password' field is a blue 'Login' button. At the bottom, there is a blue bar containing 'Sign Up' and 'Forgot Password?' links.

SCREEN 2

## Create an account

New Registration

Update Existing

SCREEN 3

Name

Email

Age

Address

Qualification

Contact Number

Working Time

Allergies

Done

SCREEN 4

## Find your Account

Mobile Number/Email

New Password

Confirm Password

[Back To Login](#)

SCREEN 5

## About

This organisation is found only to help the Covid-19 Warriors. We try to reach out maximum people so that we can help them and also encourage others to help.

We provide all the facilities to the warriors and utmost care is taken of volunteers.

PPE kit, hand wash, sanitizers, masks, gloves, etc. are provided to the volunteers.

Contact:

Email: [unityorg@gmail.com](mailto:unityorg@gmail.com)

Contact No: 52345788654



## About

This organisation is found only to help the Covid-19 Warriors. We try to reach out maximum people so that we can help them and also encourage others to help.

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Contact:

Email:unityorg@gmail.com

Contact No: 52345788654



Menu



Total Volunteers: 20

### Allocated Duties:

Transport system

Applying syringes

Daily check-up of patients

Cooking food

Oxygen-BP-sugar level check-up

### Allocated Areas:

Alandi

Pimpri-Chinchwad

Viman Nagar

Karve Nagar

No. Of Patients Helped: 100





Menu



## FAQ

Q1. I'm a student. Can I apply?

Ans- Anyone above age 18 to 40 can apply.

Q2. Can we choose the area?

Ans- Ofcourse, you can as per your convenience.

Q3. Is there fixed time of work?

Ans- No, the working hours are flexible.

Q4. What skills do I need to be a volunteer?

Ans- No skills are required. You will be trained what to do.



## Mail

Dear XYZ, You have been selected as a Volunteer for the covid-19 pandemic.

Area: ABC

Time: 10.00a.m-1.00pm

Welcome to the organisation.

Thank you.

Regards,  
Unity Organisation





SCREEN 10

Menu



## Volunteers' Experience

Share your Experience

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## Chapter No. 5 **CONCLUSION**

- This application was developed after detailed study and research on existing systems and applications.  
We feel very glad to conclude this presentation.
- This was our first experience to perform such professional and large project work.  
Objective of this project was to successfully implement a Volunteer
- Management system, design a user friendly and easy to operate application while providing privacy and security at user end.
- We have got the opportunity to learn conceptual and practical knowledge of software engineering, data analysis and real time experience of project implementation.
- This study provides guidance for those who are preparing universities to deal with pandemic influenza.
- The results suggest factors that might be important in the recruitment of volunteers during an influenza pandemic and these factors might be relevant for other sectors as well.
- It is our pleasure to thank once again to all of you on completion of our project work. By developing this system, we found ourselves on pathway to industry requirement.

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[https://en.wikipedia.org/wiki/Volunteer\\_management](https://en.wikipedia.org/wiki/Volunteer_management)