COVID CARE MANAGEMENT SYSTEM

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PROBLEM STATEMENTS

01 HEALTHCARE WORKERS GETTING INFECTED

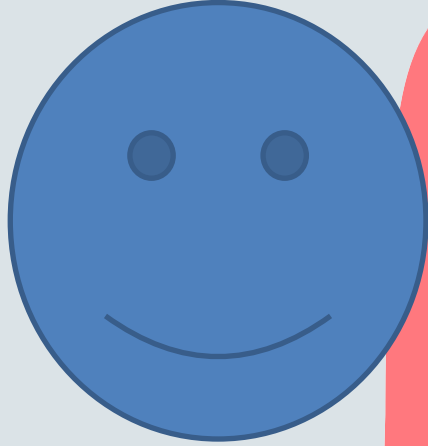**02** LESS INTERACTION BETWEEN DOCTOR & PATIENTS

03 DOCTORS BEING TOO BUSY BECAUSE OF MANY PATIENTS

04 UNAVAILBILITY OF BEDS IN HOSPITALS

INTRODUCTION

THE INCREASING COVID-19 CASES PER DAY IS CREATING A CONCERN TO THE DOCTORS AND HEALTH CARE WORKERS WHO COME IN DAILY CONTACT WITH THE PATIENTS.
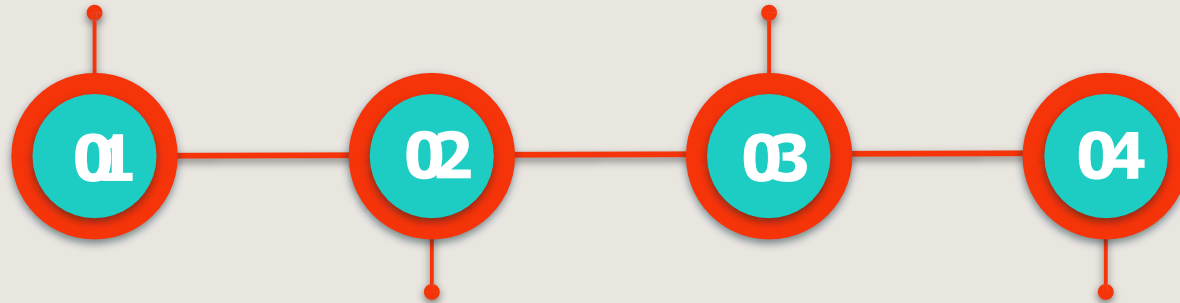
AS THE CASES INCREASING RAPIDLY IT S NOW DIFFICULT FOR THE DOCTORS AND NURSES TO LOOK UP TO EACH PATIENT S ACTIVITITES AND RECOVERY. THESE HEALTHCARE WORKERS ARE GIVING THEIR BEST TO PROVIDE THE BEST TREATMENT TO THE PATIENTS EVEN THOUGH THEY GET INFECTED THEMSELVES.
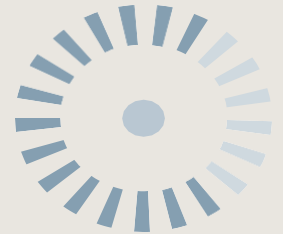
JOURNEY OF PROTOTYPING PROCESS

GOALS

DEVELOP

01 02 03 04

FUNCTIONALITY

EVALUATE

Activities

General impressions / Observations

1. Unaware of crowd places , so infection of various possibilities increases.

2. In case of Emergency , availability of Ambulance is the major objective for every patient to reach the hospital.

3. Registration for patient becomes tedious job in hospital.

4. People not following the basic guidelines circulated from government.

Elements, Features and Special Notes

1. Crowded Area

2. People not using masks

3. People not maintaining social distance

4. Crowded public transports

Sketch/ Photo –
Summary of activities

Environment

General impressions / Observations
(Style, materials & atmosphere)

1. Hospitals

2. Covid Testing Labs

3. Pathalogy

4. Crowded Areas

5. Vaccination Centres

Elements, Features and Special Notes

1. General Safety

2. Infection Control

3. Bed Management in Hospitals

4. Availability of Ambulance at time of Emergency

5. Easy and proper vaccination

Interaction

General impressions / Observations
(Who is interacting with whom, what?)

1. Doctors

2. Health-Care Workers

3. Frontline Warriors

4. Crowded area people walking in

Elements, Features and Special Notes

Affected people were facing problems for the following purpose:

1. Use of ambulance in emergency purpose
2. Vaccine registration
3. Management of hospital

Scene of interaction
(How it is being done)

Objects

General impressions / Observations
(How components are involved?)

1. Hospital

2. Vaccination Centers

3. Available Beds for covid

4. Vaccination Registration

Inventory of Key Objects
(Prepare a list here of 'THE THINGS' involved)

Elements, Features and Special Notes
(How objects are relating to the activities?)
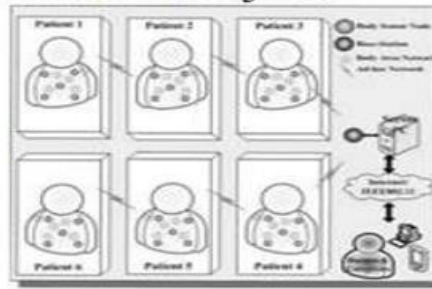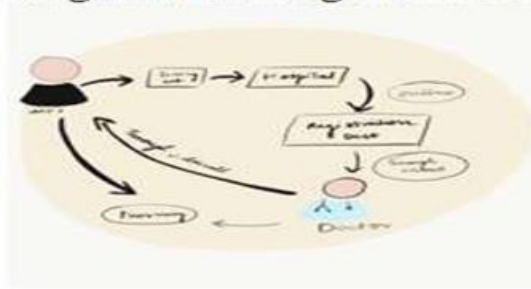
Users

General impressions of people
(Who is present? Roles & responsibilities?)

1. Covid 19 patients

2. General people

3. Family of infected patient

4. Common people

Inventory of people
(List of identified people involved)

1. Easy , Simple and Fast registration

2. 24/7 registration of beds in covid hospital

3. Availability of Ambulance 24/7 .

4. If home quarantine then contact with Doctors anytime.

USE CASE

A use case diagram is usually simple. It does not show the detail of the use cases :

❖ It only summarizes some of the relationships between use cases , actors, and systems.

❖ It does not show the order in which steps are performed to achieve goals of each use case.
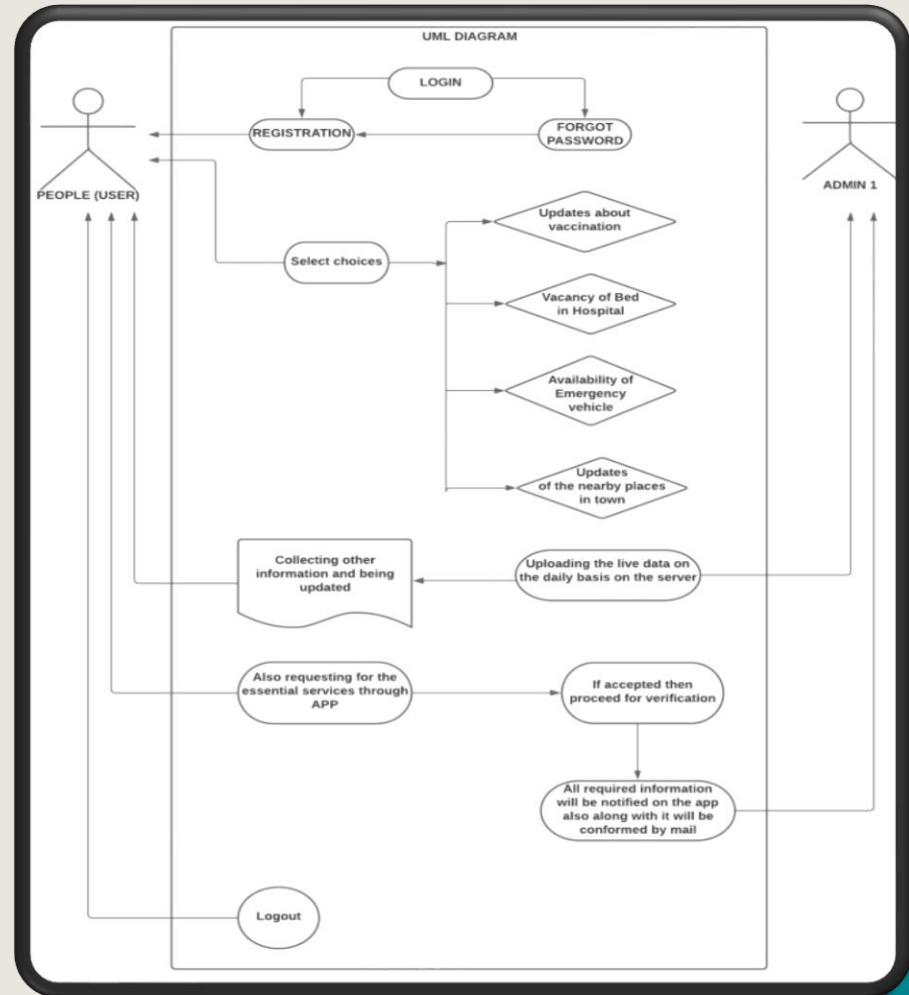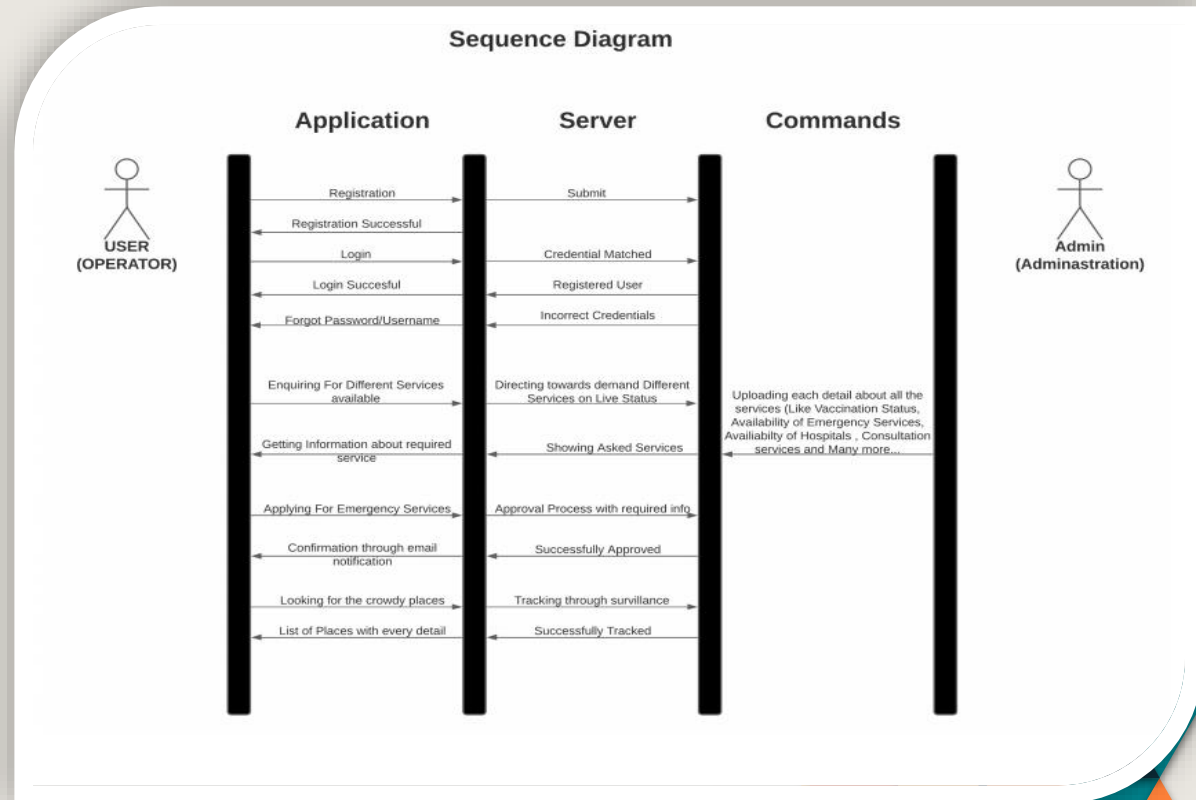
SEQUENCE DIAGRAM

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Sequence Diagram

Application   Server   Commands

USER (OPERATOR)   Admin (Administration)

Registration → Submit
Registration Successful
Login → Credential Matched
Login Succesful → Registered User
Forgot Password/Username → Incorrect Credentials

Enquiring For Different Services available → Directing towards demand Different Services on Live Status → Uploading each detail about all the services (Like Vaccination Status, Availability of Emergency Services, Availiabilty of Hospitals , Consultation services and Many more...

Getting Information about required service → Showing Asked Services

Applying For Emergency Services → Approval Process with required info

Confirmation through email notification → Successfully Approved

Looking for the crowdy places → Tracking through survillance

List of Places with every detail → Successfully Tracked

ACTIVITY DIAGRAM

ACTIVITY DIAGRAM

USER	Management Staff

A → Login

Login → Already Registered
Login → New Registration

New Registration → SignUp

Already Registered → Enter Username & Password

Enter Username & Password → Login Id & Password
SignUp → Login Id & Password

Login Id & Password → Valid
Login Id & Password → Invalid

Invalid → Forgot Password/ Username

Valid → Enquiring

Enquiring → Availiability of Hospitals, Beds & Doctors
Enquiring → Updates about the Vaccination
Enquiring → Emergency Services like Ambulance Registering
Enquiring → Updation about the crowdy Places

→ Getting an each and every information

→ Requesting and Registering for Any of the services

→ Getting Confirmation from the Administration

Log Out → ⊕

FUNCTIONAL REQUIREMENTS

1. User Registration
2. User/Admin Login
3. Records of Hospitals, Patients, Emergency Vehicles & Vaccine
4. Surveillance Controls & Tracking Guider

TABULAR REPRESENTATION

USER REGISTRATION

Name	Registration
Purpose	For patients details/ To create an account
Input	Patients/Users details
Output	Details collected can be used for successful login
Scope	Patients, Hospital management staff

USER LOGIN

Name	Login/ Sign in
Purpose	To search for availability of the required data stored or uploaded on the site or To upload the required data on the site.
Input	Available Hospitals, Ambulance, Vaccination program details, other Health related data
Output	Availability of Hospitals, Emergency Vehicles, Current status of the vaccination and everything related to HealthCare system
Scope	Management Staff , Frontline Workers, Patients, Normal people, Every related person

RECORDS

Name	Record of Hospitals, Patients, Emergency Vehicles & Vaccine
Purpose	Securing & Providing every single detail on current basis on the site of every record
Input	Login details
Output	Detailed report of saved records on the site
Scope	Management Staff, Frontline Workers, Patients, Normal people, Every related person

SURVEILLANCE

Name	Surveillance Controls & Tracking Guider
Purpose	For security purpose and restriction of the basic rules meant to be followed during this pandemic
Input	Captured Images from the different spots
Output	Extracted details of the images
Scope	Only Security Operators and People related to the system

NON-FUNCTIONAL REQUIREMENTS

Availability:

- App/Site will be available for everyone.
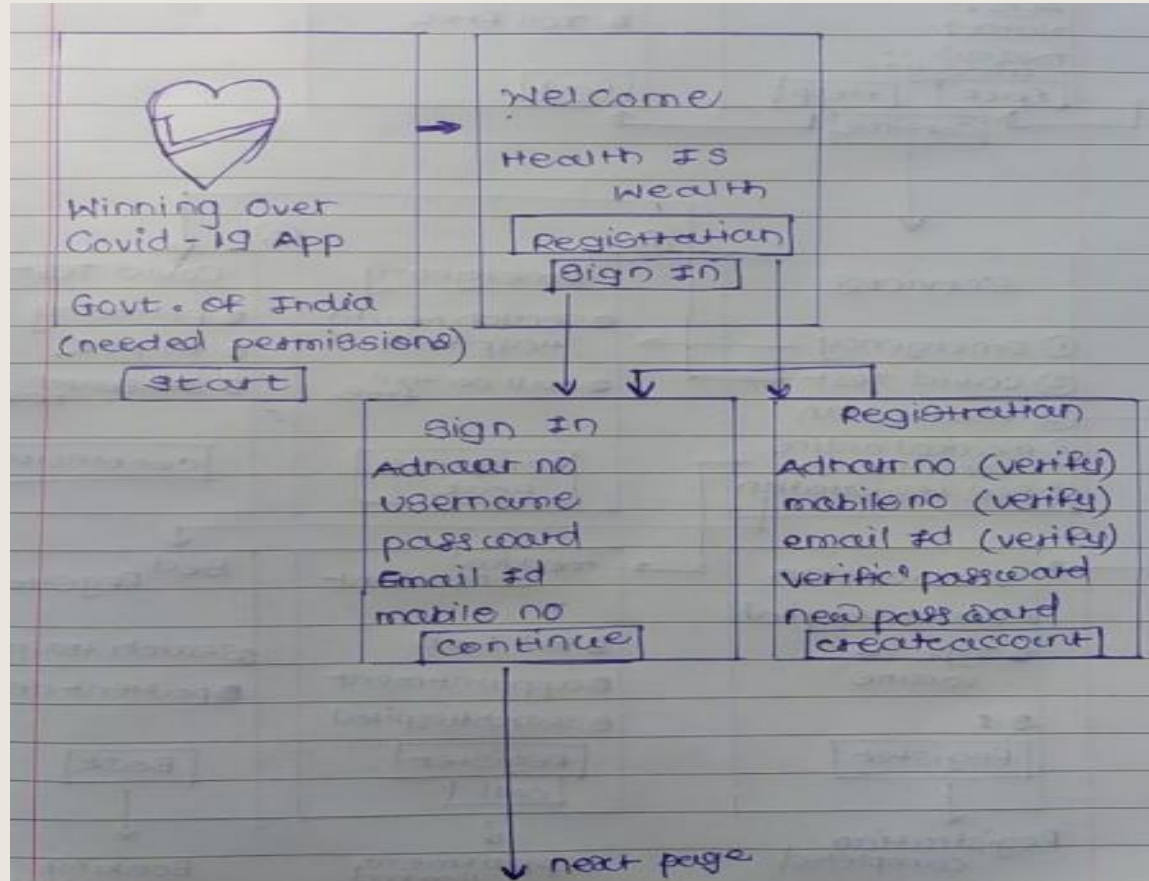- Aadhar Verification required

Maintainability:

- Daily maintenance required for healthy use of app/Site.
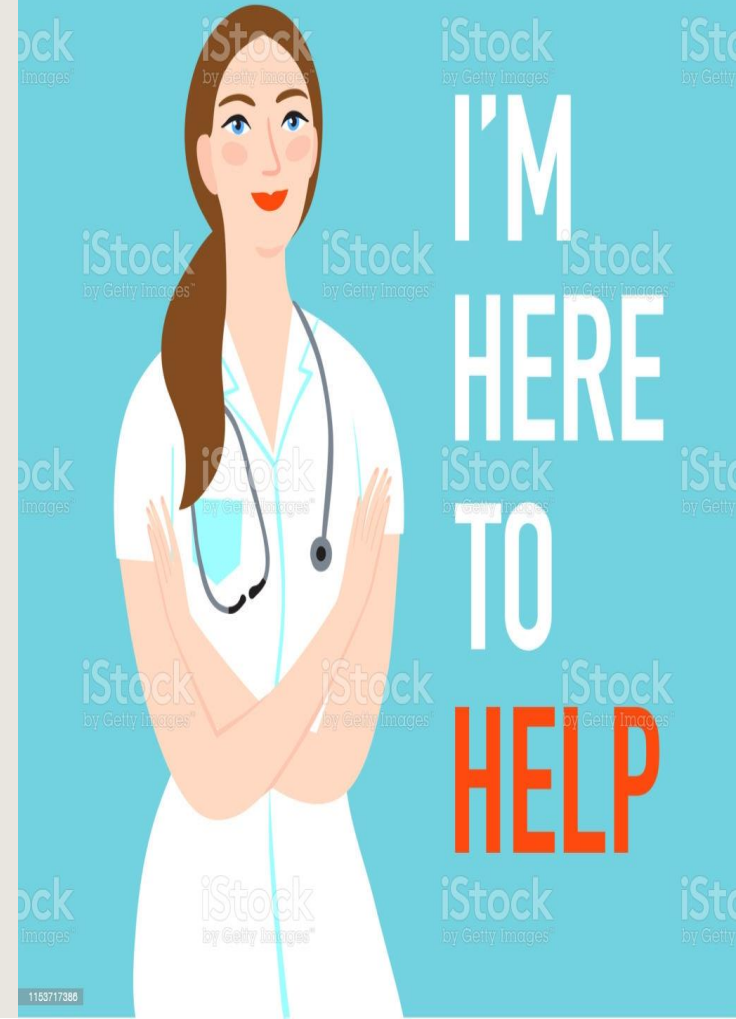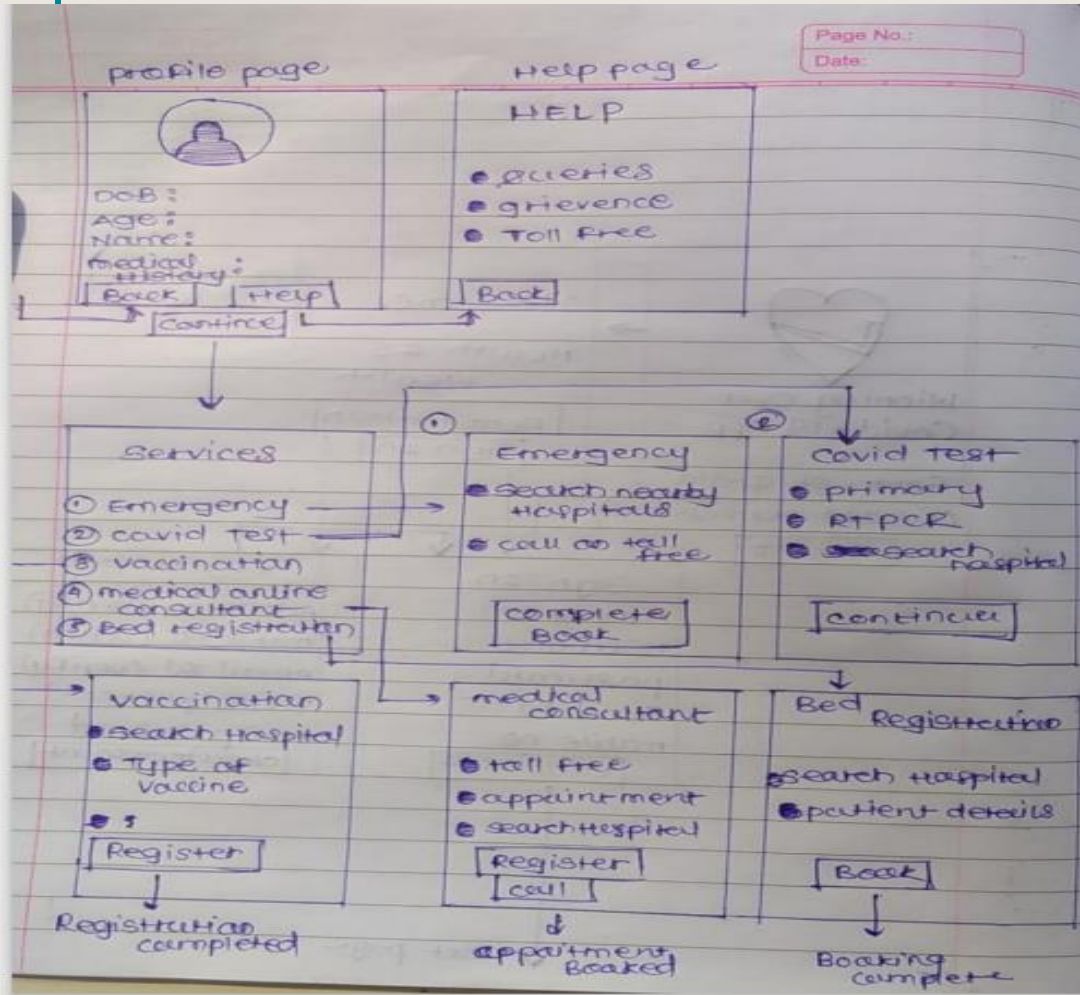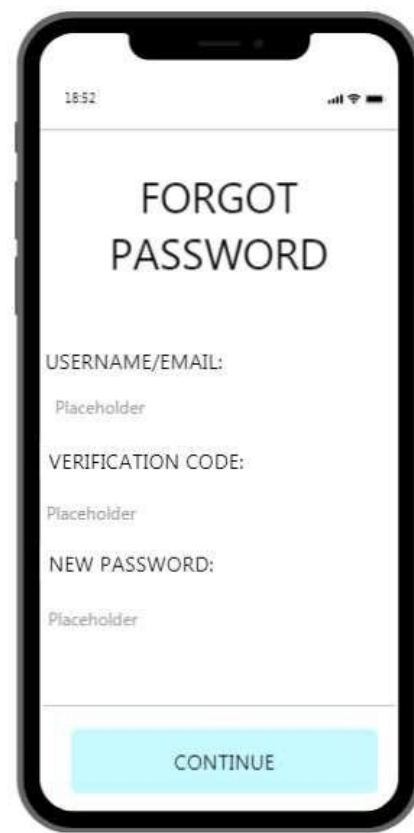- Updation of details on daily basis

LIMITATION

1. At a time if many people are using the site/app the server will crash

2. Updation may required time to get done.

HIGH FIDEALITY

profile page

Help page

HELP
- queries
- grievence
- Toll Free

[Back]

Profile:
DOB :
Age :
Name :
medical History :

[Back] [Help]
[Continue]

Services
1. Emergency
2. Covid Test
3. Vaccination
4. medical online consultant
5. Bed registration

① **Emergency**
- Search nearby Hospitals
- call on toll free

[Complete Book]

② **Covid Test**
- primary
- RT-PCR
- search haspital

[Continue]

Vaccination
- search Hospital
- Type of Vaccine
- ?

[Register]

Registration completed

medical consultant
- toll free
- appointment
- search Hospital

[Register]
[call]
↓
appointment Booked

Bed Registration
- search Hospital
- patient details

[Book]
↓
Booking complete

THANKS YOU!

ANY QUESTIONS?