**DOUGLAS COLLEGE**

Computer and Information Systems

**Project Proposal**

**COVID-HELP**

Group Members

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# Statement of the problem:

Due to the recent covid crisis in India thousands of people are dying every day. There is oxygen shortage, shortage of beds in hospital and some people are too poor to afford the treatment. To help people in these testing times I have created website Covid-Help which will be user friendly and have a decent Ux-Design, this website will help all the people affected by this pandemic. The user will be shown a list of hospitals in a grid with bed availability in the selected city. The user can reserve a bed from the available hospitals. The website will have a general database for all hospitals, the admin of hospital can update the bed availability by logging in to the website using the hospital id . I will fetch the data from database and show it to the user, so he can check availability or reserve a bed. The user can take a self-assessment test, must answer a set questions, our website will record the user responses and based on an algorithm which will be developed using machine learning or AI our website will suggest the next steps user should take. It will also show you the graphs of number of covid cases in the area so you can avoid travelling in those areas. The website will also have a donation portal to help those in need.  In India there is oxygen shortage in hospitals, so people must arrange oxygen cylinders for themselves, they must buy it from industries. Many people are dying because they cannot get oxygen cylinders in time. To solve this problem our website has oxygen cart where they can reserve the cylinder for pick up or get it delivered. The user must pick up the cylinder at the seller location. There will be seller login after logging in different sellers can update their inventory and price. There will 2 prices one for refilling of cylinders and one for buying a new cylinder. If the user wants to return the empty cylinder, he can return the cylinder and difference in price will be returned to the user. The user can sort the oxygen cylinders by price.

# Significance of Study

Development of this website is crucial as it can be the first helping hand of people suffering from the disease. It will assist the patient in every possible way from enabling them to take a assessment to guiding them through the process to book beddings and look for doctors. It is quick and easy way to search for the availability of beds and doctors in the nearby hospitals. Apart from this, getting oxygen cylinders is way easier through this website as patients can get it delivered at their doorsteps. This saves their time of searching for oxygen cylinders and they can get it upfront just with few clicks. As delay in finding oxygen in case of emergency may lead to death of a person, therefore, I find it important to add this feature to save the life of individuals.

# Proof of progress

I divided the project into parts front end design using html, CSS and angular back-end coding using node js and PostgreSQL.

I have completed about 70 percent front end designing I have attached the screenshots below.

For the back end I have created most of the API’s, I have not yet integrated all of them.

## Front end design

The website will two interfaces one for admin and one for users

The admin section is for adding , updating, and deleting of hospitals.

In the admin interface section admin can add, edit, or delete a hospital.

A screenshot of a computer

Description automatically generated

When we click on add hospital the add hospital form will pop up.

Graphical user interface, application

Description automatically generated

We can add the hospital details in this form.

In the user section.

Graphical user interface, application, website

Description automatically generated

The users can see the list of hospitals and check bed availability, and also reserve beds.

We can also see our bookings in the Search booking tab.

We can also search our bookings by email.

Graphical user interface, text, application, chat or text message

Description automatically generated

There is also a About covid tab which provides information about covid

A picture containing text, person, indoor, screenshot

Description automatically generated

We can also covid 19 stats on this tab.

Graphical user interface, application

Description automatically generated

## Pending features for front end design

I have yet to complete oxygen cart tab where the users can buy cylinders.

Bed reservation form is still left.

I have not yet decided the field of covid assessment form will start working on it after midterm.

# Software Design architecture

## UML for Admin

Diagram

Description automatically generated

## UML for User

Diagram

Description automatically generated

## UML Backend

![Diagram

Description automatically generated]()

# Environment Set-up:

1. Install Visual Code Studio, PostgreSQL, Node js.
2. Keep the password as admin for PostgreSQL, if you want to change your password, you also must update the new password in .env file in the root folder of Project.
3. Open Visual Studio and open the project Server\_Side.
4. Open terminal and enter the following command.

npm install

npm start

1. Once the server is running open a new instance of Visual studio code and open the project covid\_admin then open the terminal and run commands

npm install

ng serve

1. In browser open <http://localhost:4200/> project will be running.