

HACK-O-VID

Domain: Healthcare

- **Problem Title :** Checking the current status of hospitals due to ongoing pandemic.

Problem Description : Covid-19 pandemic is defining the global crisis of our time. Seeing the increasing number of cases the government of India had to put a two-month long coronavirus-induced lockdown. Even though most of the restrictions have been removed but still things are not normal. Due to this people are facing many challenges in different domains like economy, agriculture, marketing and business, finance and one of the most challenging one being healthcare. Even when people are not directly in human contact still they are getting infected via things like food, chair, office desk etc. When a person gets severely infected and is in an emergency situation they may know which hospital is near to them but what they don't know is that if the hospital has vacant beds, ventilators, oxygen-masks or if the medicines are in stock. Due to the pandemic, people are also on a tight budget and hence they try to avoid going to the hospital. This is because they don't know the fees the doctor will charge which would fit their budget. For overcoming all these problems this website will be made.

Proposed solution:

Our main problem is the difficulty in searching for the right hospital for a COVID-19 positive patient according to their needs.

So, hereby to solve that problem we may build a website of our own which will include all the details of the hospitals in the given city of the user. It will not only show the address and phone number of the hospital but also, it will include the total number of vacant beds present at the moment, cost of each bed, the medicines available at the moment (for treatment of covid-19) and cost of the medicines as well as the oxygen cylinders.

Special information about the emergency ward and its facilities will be shown on the website. The users will be allowed to leave ratings after visiting the hospitals and also write their reviews or opinions about it too.

The hospitals will be placed according to their ratings. Preference will be given to the hospitals with high ratings.

The main advantage of creating this kind of website is that it will be very useful to the users who are unable to find the appropriate hospital according to their requirements. Users can find the hospitals easily and the cost of vacant beds as well. They can select the hospital within their budget.

It will be helpful to the emergency COVID-19 patients who are in severe condition, as they can search for the hospitals online, as well as find out every single detail about the emergency ward without wasting much time in finding the suitable hospital.

As everything will be available online, and the data of the hospitals will give directly to the developers, it will give absolute transparency about the information displayed online.

The users will be given the most preference as they can give ratings according to their experience and write reviews about the hospital, they visited which could help other users to find their right hospital.

Technology Stack:

Technologies used are:

HTML(Hyper text markup language) - This will provide the structure of the website which the browser will show.

CSS(Cascading style sheet) - This will give style to our website. It will describe how HTML elements should be displayed.

JavaScript - This programming language will give a way to communicate with computers and tell them what to do. It will give webpages interactive elements that will engage the user.

Bootstrap - This will generate the UI that will handle multiple browse devices and resolution with nice format.

MongoDB - This will handle the data like available vacant beds, ventilators, oxygen masks etc and will retrieve the data and display it on the user's screen.

Web-storage API - This will be used to store reviews from the users.

Use Case:

A website is typically a collection of web pages, images and other elements that are linked together to form a larger, structured document. Think of a website as a book and each individual Page is a webpage

First of all, when the user will be click on the website, a webpage will open which will show some information about coronavirus. In the webpage the user will get an option to select the area of the hospitals. After selecting the area, a webpage will open in which user will get a list of hospitals situated in that area. The hospitals will be arranged according to the rating (Hospitals who have high number of stars out of 5 in rating will be at the top of the list).

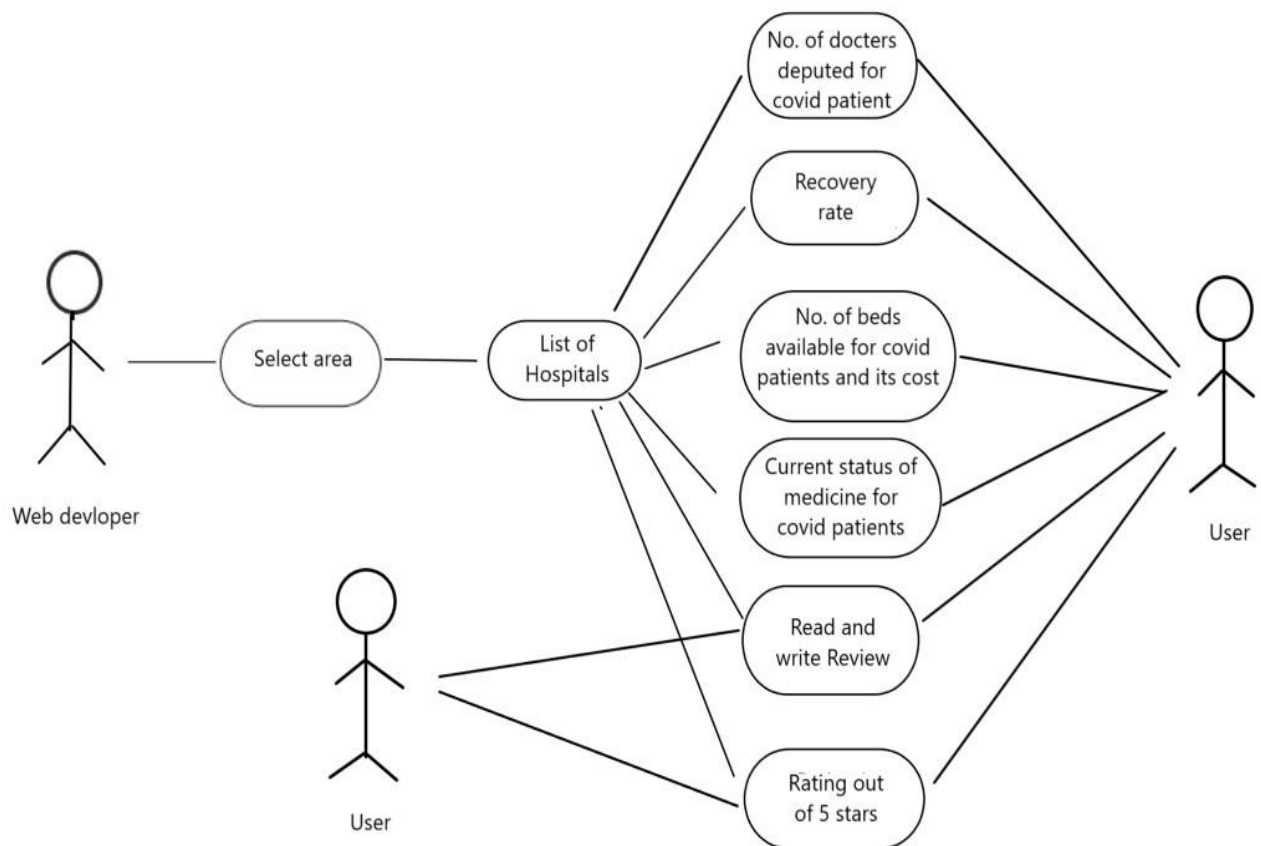
After selecting hospital by the user another webpage will open, and in that, user get information of that hospital as following.

- Number of doctors deputed for covid patients.
- Recovery rate
- Number of Beds available for covid patients and its cost.
- Current Status of medicines for covid patients (like paracetamol, combiflam, oxygen mask and ventilators).
- Review of that hospital.
- Ratings out of 5 stars

In this webpage user also get options to write the review about that hospital and to give ratings to that hospital.

This is how our website will work.

Use case diagram:



Team Members details:

Role	Name	USN	Email id	PhoneNo.
Team leader	Ayushi			
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