Karnataka Law Society's
GOGTE INSTITUTE OF TECHNOLOGY

UDYAMBAG, BELAGAVI-590010

(An Autonomous Institution under Visvesvaraya Technological University, Belagavi)
(APPROVED BY AICTE, NEW DELHI)

A Report of

Database Management System -18EC645

Course Activity on

Covid Bed Management System

Submitted in partial fulfilment of the requirement for the award of the degree of

Bachelor of Engineering

in

Electronics and Communications

Submitted by

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MAX.MARKS: 20 **Obtained Marks:**

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Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the course activity entitled as **Covid Bed Management system** done at KLS Gogte Institute of Technology is a bonafide work carried in partial fulfilment for the award of **Bachelor of Engineering in Electronics and Communications Engineering** of the Visvesvaraya Technological University, Belagavi during the year 2020-21.

It is certified that all corrections/suggestions indicated have been incorporated in the report. The course project report has been approved as it satisfies the academic requirements prescribed for the said Degree.

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Signature of the staff in charge:

Date:

Index:

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Introduction :

India's health care system and other essential services are close to collapse as a second coronavirus wave that started in mid-March tears through the country with devastating speed. In shifting to respond to COVID-19, community health centers have seen their revenue and stability slashed, and key programs and resources eliminated.Without access to community health centers, the health of this disenfranchised population will suffer. For older adults and individuals with disabilities, local community health centers are often their long-term treatment providers.Community health centers most often serve vulnerable populations, including people of color and other minorities, older adults, uninsured families, and individuals with disabilities. The COVID-19 pandemic has disproportionately affected the health of these populations along with their financial and social well-being.

Objective :

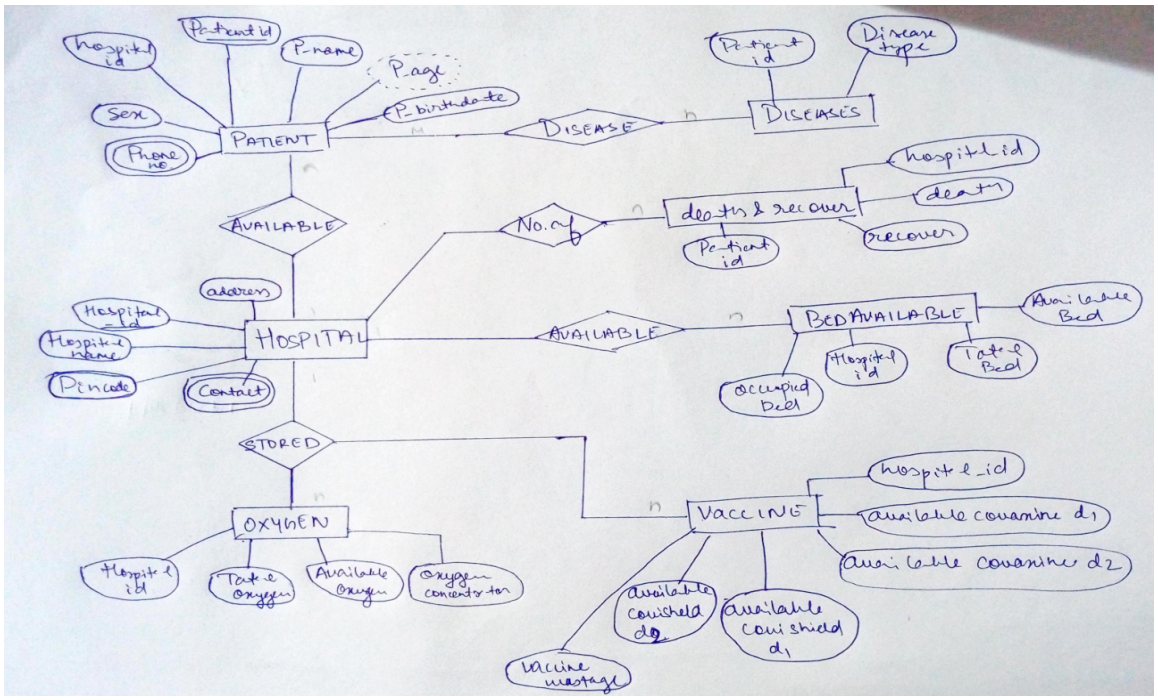
This Website is created to check the availability of the beds in the hospital and the vaccines available in the hospitals.

Tech stacks:

Front end: Html,css,bootstrap,jquery.
Back End : PHP , MYSQL.
Tools : XAMPP ,MySQL workbench , Visual Studio code.

Description

Entity Relationship Diagram :



Attributes :

Hospital(<u>hospital_id</u> ,hospital_name ,H_pincode address,h_contact)

Bed availability(hospital_id,total_beds,Avaialble_beds,occupied_beds)

Oxygen(hospital_id(foreign key)total_oxygen(the total oxygen that particular hospital can store)Available_oxygenOxygen_concentrators)

Patient(<u>patient_id</u>,p_name,p_age,p_birthdate,gender,p_phNo, h_id(foreign key))

Disease(Patient_id (foreign key) ,Disease_type)

Vaccine(hospital_id(foregin key),available_covisheild_d1_vaccine,available_covisheild_d2_vaccine ,available_covaxin_d1_vaccine ,vailable_covaxin_d2_vaccine, Vaccine_wastage)

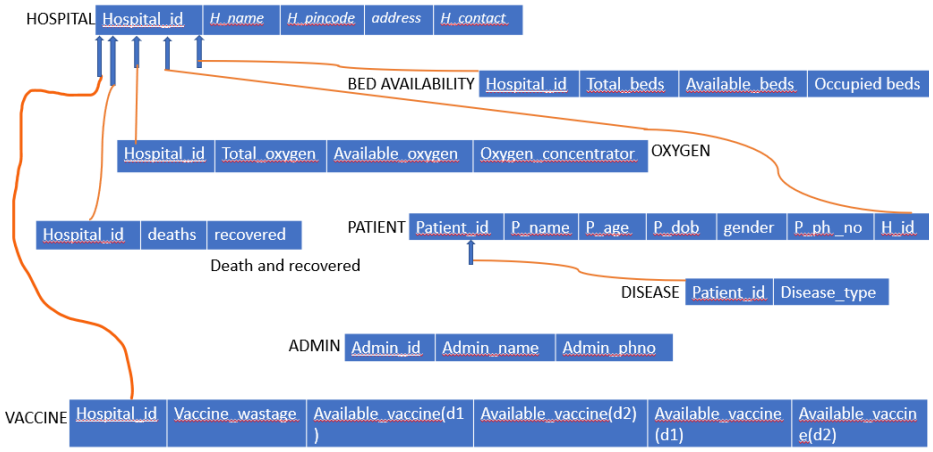
Death & Recover(h_id(foreign key) ,deaths ,recovered)

Cardinality Ratio :

- 1 hospital can have n number of death,recovery.
- 1 hospital can have n number of oxygen storage.
- Many patients can have n number of diseases.
- 1 hospital can have n number of vaccines stored.
- 1 hospital can have n number of beds available.
- 1 hospital can admit n number of patients.

Schema Model :

SCHEMA MODEL

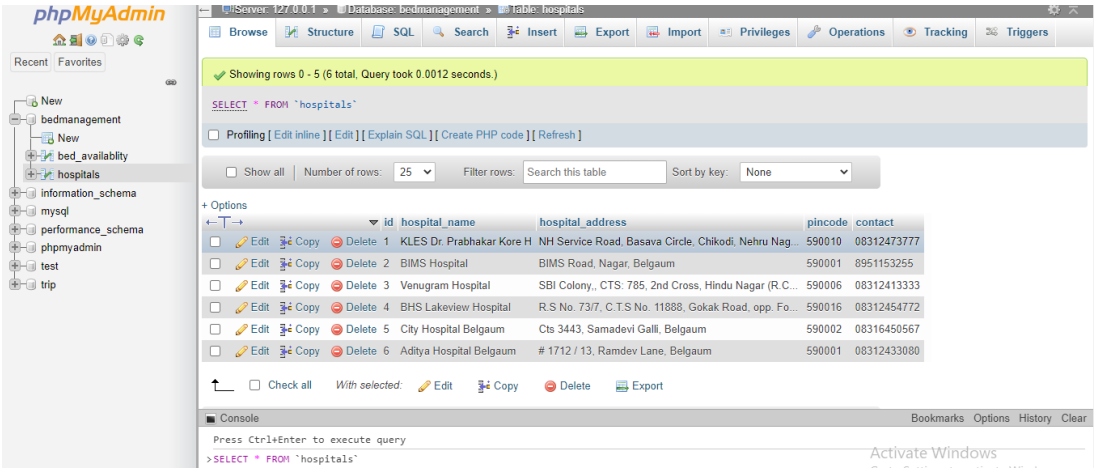


Working:

Code for connecting backend to frontend also creating the database and table using the sql queries

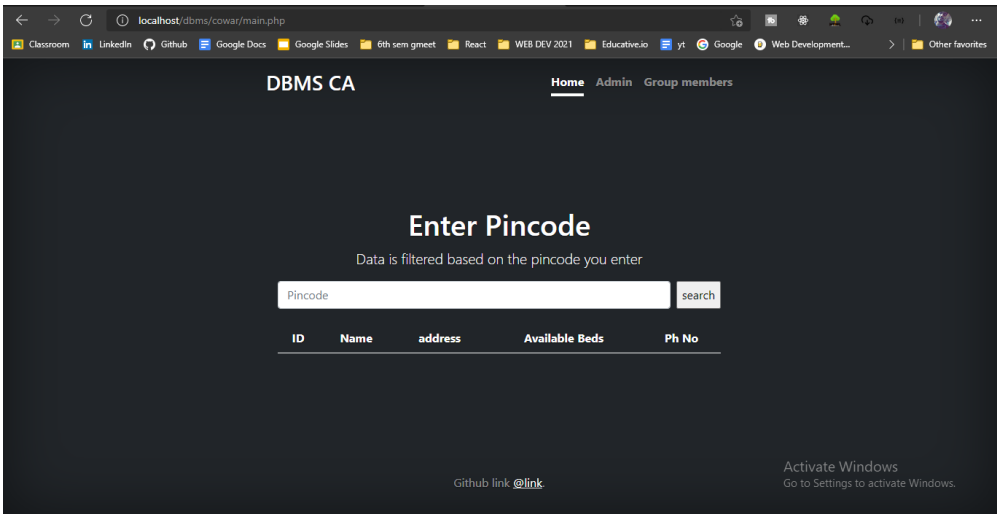
```php
<?php

function Createdb()
{
    $servername = "localhost";
    $username = "root";
    $password = "";
    $dbname = "bedmanagement";

    //create connection
    $con = mysqli_connect($servername, $username, $password);

    //check connction
    if (!$con) {
        die("connection failed:" . mysqli_connect_error());
    }

    //create Databse
    $sql = "CREATE DATABASE IF NOT EXISTS $dbname";

    if (mysqli_query($con, $sql)) {
        $con = mysqli_connect($servername, $username, $password, $dbname);
        $sql = "
        CREATE TABLE IF NOT EXISTS hospitals(
        id INT(11) NOT NULL AUTO_INCREMENT PRIMARY KEY,
        hospital_name VARCHAR(25) NOT NULL,
        hospital_address VARCHAR (100),
        pincode INT(10) NOT NULL,
        contact VARCHAR(12) NOT NULL
        );";

        $sql = "
        CREATE TABLE IF NOT EXISTS bed_availablity(
        hospital_id INT ,
        total_beds INT ,
        available_beds INT ,
        occupied_beds INT ,
        FOREIGN KEY(hospital_id) REFERENCES hospitals(id) ON DELETE SET NULL

        );
```

Data stored in the xampp .
With two tables hospitals and bed _availbilty.

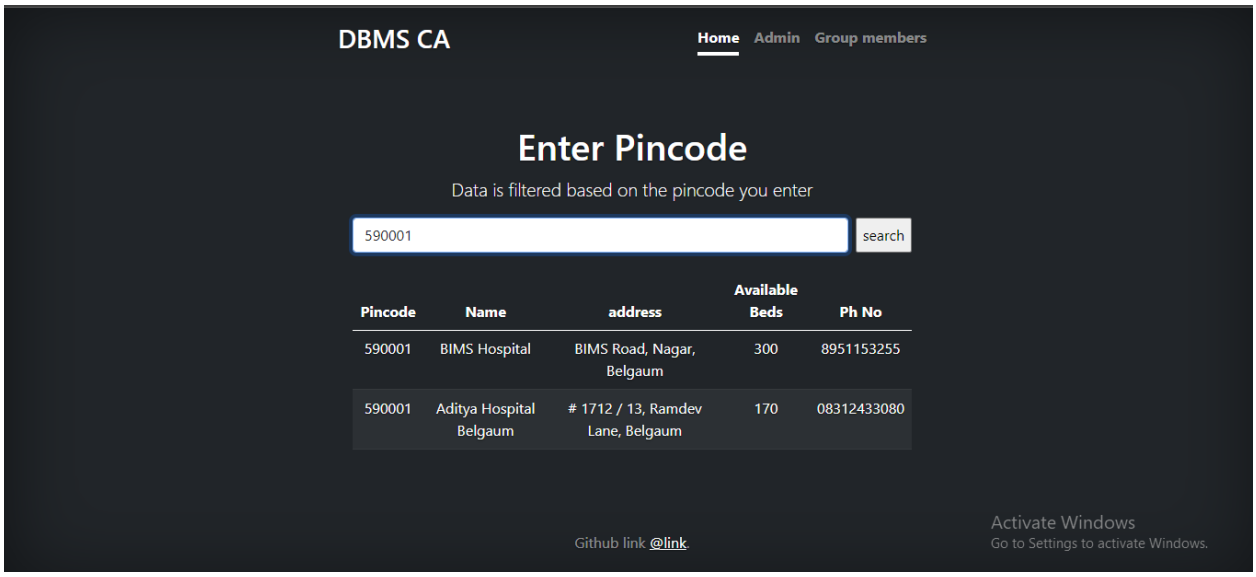


1)Landing page:

The landing page of the website is as shown below,where it collects pincode, as in the patients enter their pincode ,data is fetched from the backend and is displayed .



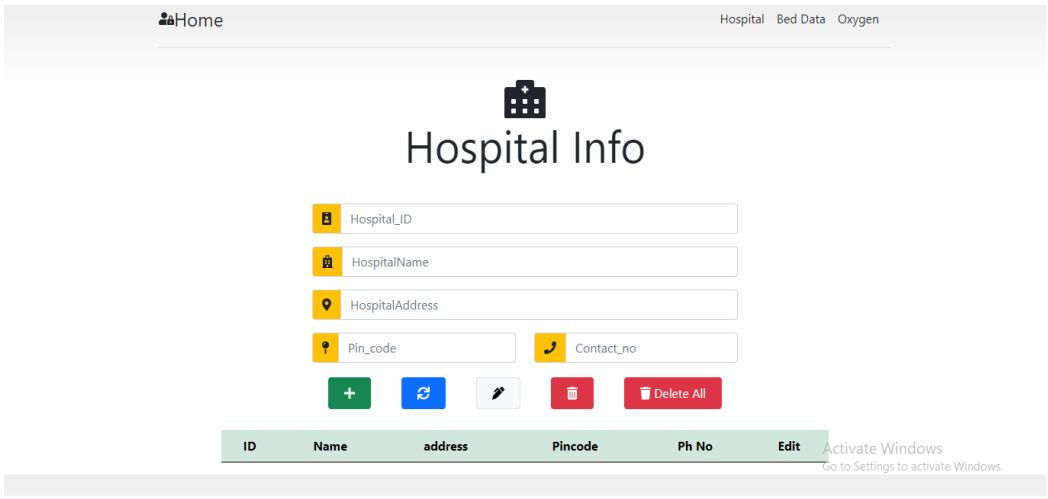
Data is displayed as shown below where in Name,address,available beds and ph no are fetched



Admin pages :

1)Hospital info:

This page collects the hospital info entered by the admin and stores it in mysql Database.



- (+) symbol with green button is used to add the data in mysql.,When the admin adds the data and clicks on it

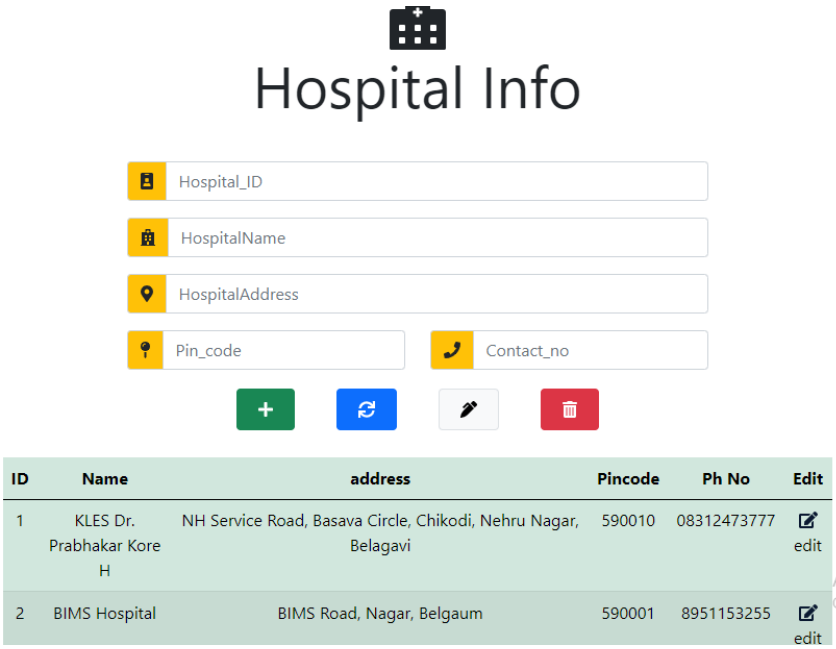
Query executed:

```
if ($hospitalname && $hospitaladdress && $hospitalpincode && $hospital_contact) {
    $sql1 = "INSERT INTO hospitals(hospital_name,hospital_address,pincode,contact)
```

- Once the data gets stored in the database if we click on the blue button data gets fetched from the database and shows to the admin

Query Executed:

```
$sql = "SELECT * FROM hospitals";
```



- If the admin wants to edit the data he or she can click on edit button and update the data by clicking on update button with pen icon

Query executed:

```
if ($hospitalname && $hospitaladdress && $hospitalpincode && $hospitalcontact) {
    $sql = "
  UPDATE hospitals SET hospital_name='$hospitalname', hospital_address='$hospitaladdress', pincode='$hospitalpincode',contact='$hospitalcontact' WHERE id='$hospitalid';
```

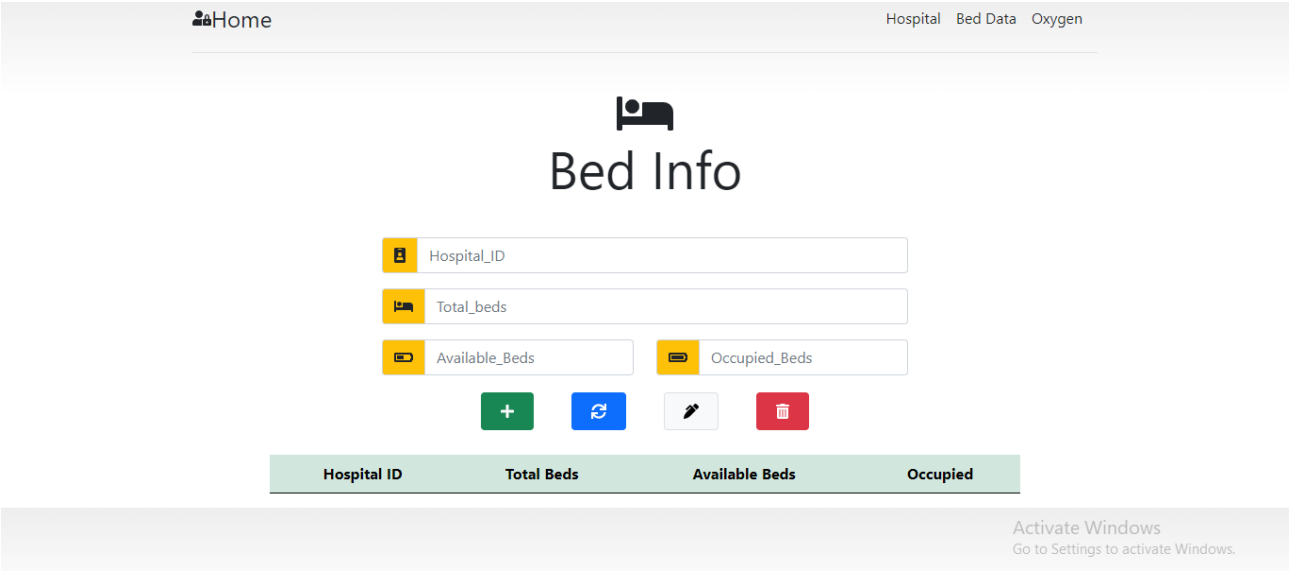
- Similarly admin can delete the data by clicking on the delete button

Query executed:

```
$sql = "DELETE FROM hospitals WHERE id=$hospitalid";
```

2) Bed page:

Similarly all the same executions are executed for the bed page .



Conclusion :

The main aim of this project is to check the availability of beds based on the pin code entered and how the health care system in a hospital works.