

Phase 3: Final Report

Hospital Database Management System

Group 13 Section 84686

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User Manual and Readme file

Project Details:

Our hospital database management system application has many aspects that fulfill our goal for this project. This is the User Manual that will guide users how to navigate and utilize the system fully. This website ensures smooth handling of critical data by introducing a strong structure with distinct portals for administrators and patients. From phase 2, we have made certain changes to the project such as adding slots, date and time of the patient appointment. Additional changes are we have removed the contact details of some users and replaced it with the email addresses. However we have chosen to add both the email and contact for a few other users. Our website is simple and easy to use. We have divided it into 2: one is the patient portal and two is admin who can view and modify the details.

Youtube video Link: https://www.youtube.com/watch?v=kLCIT8o_MEw

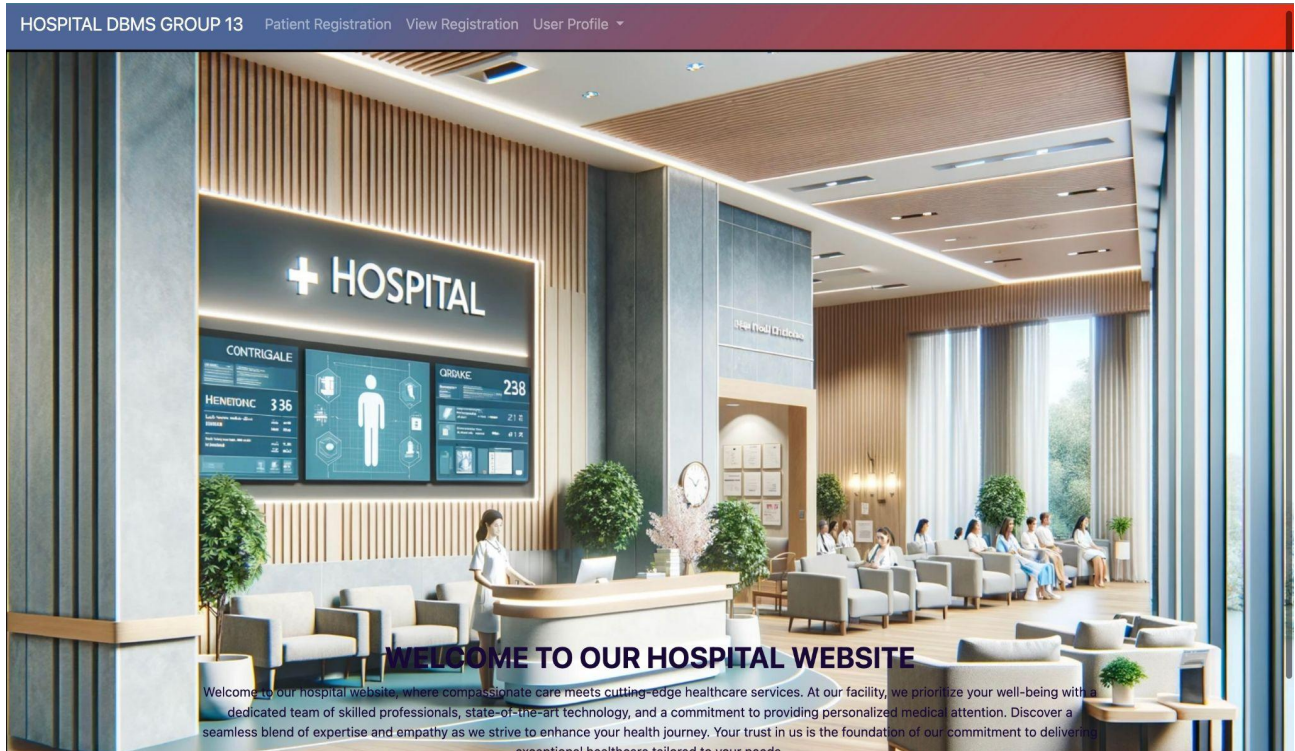
Google drive Link: [HOSPITAL DBMS PROJECT LINK](#)

Below consists of a step by step process of how to navigate through the Hospital website with screenshots. It showcases both User functions and Administrative functions.

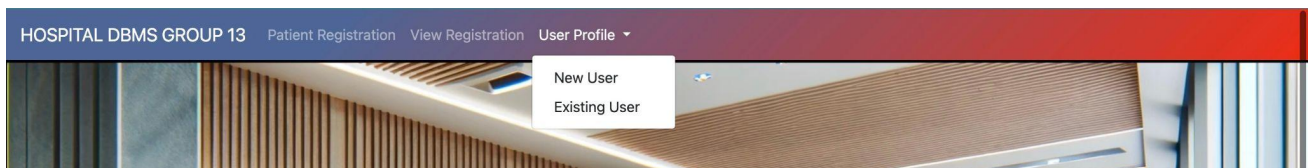
Screenshots (Step by Step):

User Functions

STEP 1 - Home Page: This is the homepage of the HospitalDBMS website present is localhost



STEP 2 - Click on User Profile dropdown button you will see New User and Existing User



STEP 3 - If we click on “New User” it will prompt you to sign up, enter the details and click on sign up.

The screenshot shows a web application for a hospital. The top navigation bar includes 'HOSPITAL DBMS GROUP 13', 'Patient Registration', 'View Registration', and 'User Profile'. The main content area features a background image of a doctor in a white coat with a stethoscope. On the right, a dark-themed 'New Profile' form is displayed. The form includes fields for 'User Id/Name', 'Select User Type' (a dropdown menu), 'Email Id', 'Password', and 'Confirm Password'. At the bottom of the form, there is a checkbox for 'I agree to the Terms and Conditions' and a 'Signup' button.

HOSPITAL DBMS GROUP 13 Patient Registration View Registration User Profile

New Profile

Unlock a world of healthcare possibilities

User Id/Name

Select User Type

Select

Email Id

Password

Confirm Password

☐ I agree to the Terms and Conditions

Signup

STEP 4 - Since I have done a sample registration, you can see that on the top navigation bar it says “Welcome 21334” that’s my sample user ID I have created. Now, on the same navigation bar click on patient registration and a form pops up on the right side of the page says “Book your Slot”, enter the details and proceed to the next step. After entering the details it shows a pop up message saying "Booking Confirmed”.

The screenshot shows the same web application, but the navigation bar now displays 'Welcome 21334' instead of 'User Profile'. The 'Book Your Slot' form is now visible on the right. It includes a dropdown menu for 'Patient Registration', 'View Registration', and 'Welcome 21334'. The form fields include 'sandeepreddy@gmail.com', 'Full Name', 'Gender' (a dropdown menu), 'Slot' (a dropdown menu), a date picker for 'mm/dd/yyyy', 'Disease', 'Select Doctor Department' (a dropdown menu), 'Select Doctor Name' (a dropdown menu), and 'Contact Number'. A 'Book' button is at the bottom of the form.

HOSPITAL DBMS GROUP 13 Patient Registration View Registration Welcome 21334

Book Your Slot

sandeepreddy@gmail.com

Full Name

Gender

Slot

mm/dd/yyyy

Disease


Select Doctor Department

Select Doctor Name

Contact Number

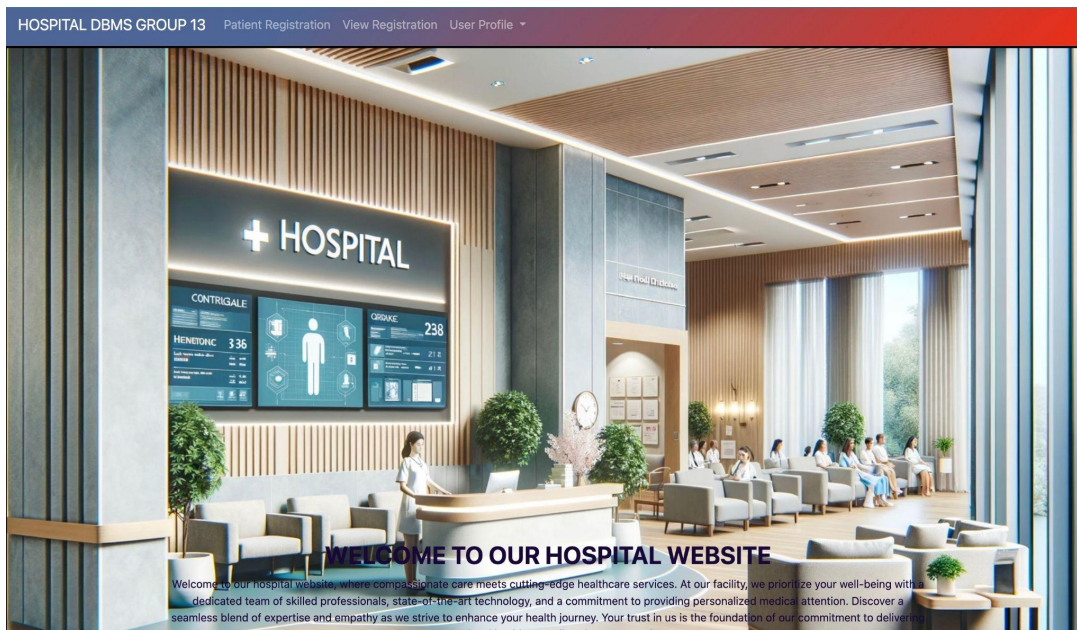
Book

STEP 5 - On the top navigation bar click on “View Registration” to view your booking. In case you believe you have entered wrong details you can click on edit and modify the details. If you had to cancel your booking then you can simply click on the “Delete” button.



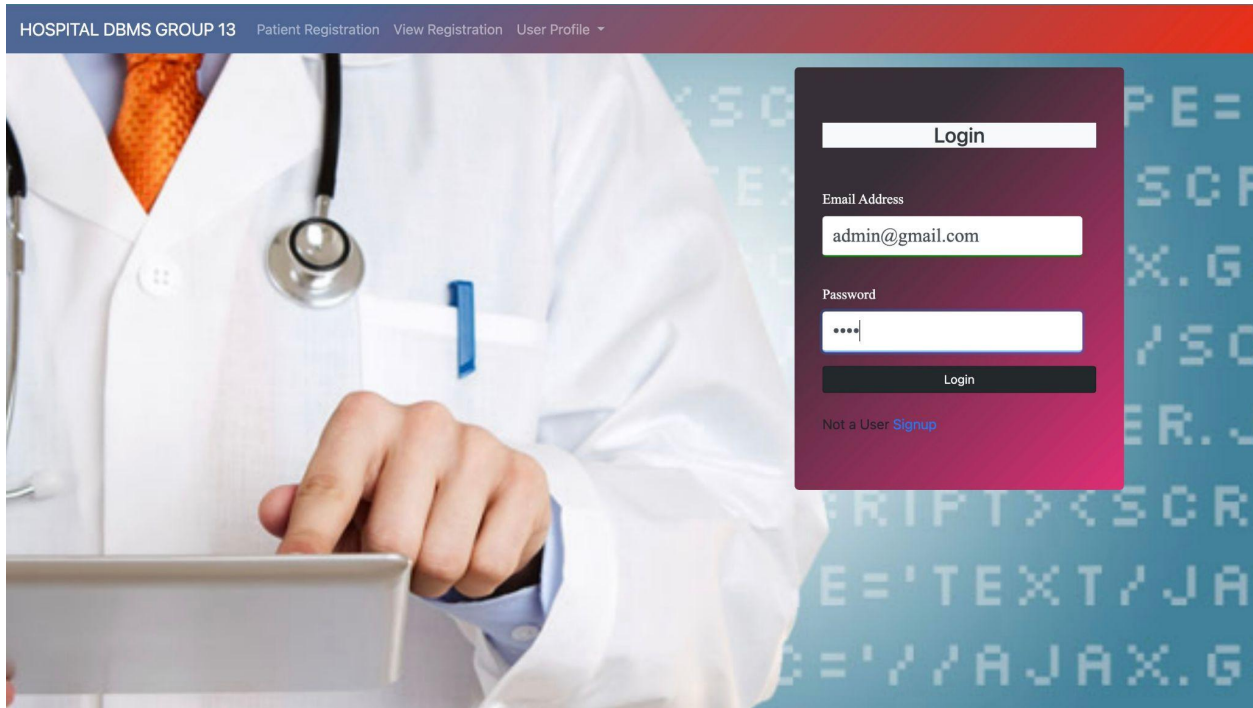
HOSPITAL DBMS GROUP 13 Patient Registration View Registration Welcome 21334											
PID	EMAIL	NAME	GENDER	SLOT	DISEASE	DATE	TIME	D.DEPARTMENT	PHONE NUMBER	EDIT	DELETE
18	sandeepreddy@gmail.com	sandeep	Male	morning	cold and fever	2023-12-05	09:00:00	Family Medicine	5656565656	Edit	Delete

STEP 6 - Welcome back to the homepage after the patient successfully logs out. Now if a user clicks on the existing user under the user profile it functions as both patient login and admin login. In the next step let's go over the administrative log in.



Administrative Functions

STEP 7: Admin login procedure: admin id - admin@gmail.com
Password - test



STEP 8: After logging in, you can see all the authorized functions of patient, doctor, nurse and patient bills. Click on “Doctors” doctor entries on the top nav bar a form gets opened and doctor details are managed and added by the admin and click on the submit button it gets saved, and can be viewed under View Doctors.

HOSPITAL DBMS GROUP 13 Patient Registration View Registration Doctors View Doctors Nurses View Nurses Bills View Bills Welcome 7489234

Doctor Entries

Email:

Doctor Name:

Doctor Department:

STEP 9: View, edit or delete entries of “Doctors”.

HOSPITAL DBMS GROUP 13 Patient Registration View Registration Doctors View Doctors Nurses View Nurses Bills View Bills Welcome 7489234

Doctor ID	Email	Name	Department	Actions
31	doctor1@example.com	Dr. Smith	Cardiology	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
32	doctor2@example.com	Dr. Johnson	Pediatrics	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
33	doctor3@example.com	Dr. Williams	Orthopedics	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
34	doctor4@example.com	Dr. Brown	Oncology	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
35	doctor5@example.com	Dr. Davis	Neurology	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
36	doctor6@example.com	Dr. Taylor	Dermatology	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
37	doctor7@example.com	Dr. Martinez	Endocrinology	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
38	doctor8@example.com	Dr. Anderson	Gastroenterology	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
39	doctor9@example.com	Dr. Wilson	Pulmonology	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
40	doctor10@example.com	Dr. Thompson	Urology	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
41	doctor11@example.com	Dr. Hall	Nephrology	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
42	doctor12@example.com	Dr. Miller	Rheumatology	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
43	doctor13@example.com	Dr. White	Hematology	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

STEP 10: On the top navigation bar, click on “Nurses” and the Nurse entries form gets opened and nurse details are managed and added by the admin and clicking on the submit button it gets saved, and can be viewed under View Nurses.

HOSPITAL DBMS GROUP 13
Patient Registration
View Registration
Doctors
View Doctors
Nurses
View Nurses
Bills
View Bills
Welcome 7489234

Nurse Entries

STEP 11: View, edit or delete entries of “Nurses”.

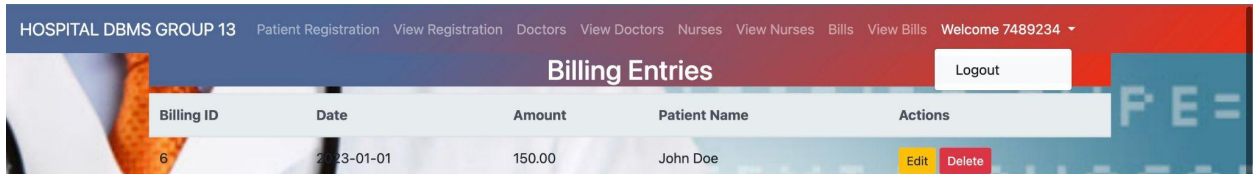
HOSPITAL DBMS GROUP 13 Patient Registration View Registration Doctors View Doctors Nurses View Nurses Bills View Bills Welcome 7489234				
Nurse ID	Email	Name	Contact	Actions
23	nurse1@example.com	Nurse Smith	123-456-7890	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
24	nurse2@example.com	Nurse Johnson	987-654-3210	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
25	nurse3@example.com	Nurse Williams	555-123-4567	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
26	nurse4@example.com	Nurse Brown	777-888-9999	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
27	nurse5@example.com	Nurse Davis	111-222-3333	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
28	nurse6@example.com	Nurse Taylor	444-555-6666	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
29	nurse7@example.com	Nurse Martinez	999-888-7777	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
30	nurse8@example.com	Nurse Anderson	333-222-1111	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
31	nurse9@example.com	Nurse Wilson	666-777-8888	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
32	nurse10@example.com	Nurse Thompson	000-111-2222	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
33	nurse11@example.com	Nurse Hall	888-999-0000	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
34	nurse12@example.com	Nurse Miller	222-333-4444	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
35	nurse13@example.com	Nurse White	444-555-6666	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

STEP 12: On the top navigation bar, click on “Bills” and the Patient Billing entries form gets opened and billing details are managed and added by the admin. By clicking on the submit button, it gets saved and can be viewed under “View Bills”

STEP 13: View, edit or delete entries of “Bills”.

Nurse ID	Email	Name	Contact	Actions
23	nurse1@example.com	Nurse Smith	123-456-7890	Edit Delete
24	nurse2@example.com	Nurse Johnson	987-654-3210	Edit Delete
25	nurse3@example.com	Nurse Williams	555-123-4567	Edit Delete
26	nurse4@example.com	Nurse Brown	777-888-9999	Edit Delete
27	nurse5@example.com	Nurse Davis	111-222-3333	Edit Delete
28	nurse6@example.com	Nurse Taylor	444-555-6666	Edit Delete
29	nurse7@example.com	Nurse Martinez	999-888-7777	Edit Delete
30	nurse8@example.com	Nurse Anderson	333-222-1111	Edit Delete
31	nurse9@example.com	Nurse Wilson	666-777-8888	Edit Delete
32	nurse10@example.com	Nurse Thompson	000-111-2222	Edit Delete
33	nurse11@example.com	Nurse Hall	888-999-0000	Edit Delete
34	nurse12@example.com	Nurse Miller	222-333-4444	Edit Delete
35	nurse13@example.com	Nurse White	444-555-6666	Edit Delete

Final STEP 14: Click on logout after modifying all the details.



The screenshot shows a web application interface for a hospital database. The top navigation bar includes links for 'Patient Registration', 'View Registration', 'Doctors', 'View Doctors', 'Nurses', 'View Nurses', 'Bills', and 'View Bills'. A user is logged in as 'Welcome 7489234'. The main section is titled 'Billing Entries' and contains a table with the following data:

Billing ID	Date	Amount	Patient Name	Actions
6	2023-01-01	150.00	John Doe	Edit Delete

Frameworks and languages used to design:

HTML, CSS, BOOTSTRAP, PYTHON -FLASK AND POSTGRES and a few parts of JINJA also known as DJANGO.

Prerequisite installations:

Performed using visual studio code with Python 3.12.0.

Install Flask-SQLAlchemy 2.4.3

Mac command - pip install Flask -SQLAlchemy

Install python flask

Mac command - pip install flask

Install flask mail

Mac command - pip install Flask-Mail

Install flask login

Mac command - pip install Flask-Login

Note: some of the other general installations in the vs code need like python, python extension pack, python indent etc..

IMPORTANT USER ID AND PASSWORDS

Homepage → Existing user → Login page

User id/name - admin@gmail.com

Password - test

How to access and run the file in your localhost:

Google drive Link: [HOSPITAL DBMS PROJECT LINK](#)

Steps:

Download the zip and unzip in any of your folders.

Using visual studio code open the unzipped file

Now create a virtual environment in your vs code

Example in our project:

Created a virtual environment called as *“myvenv”*

Then start running the code in your virtual environment . *myvenv/bin/activate*

(myvenv) sandeeps-MacBook-Pro:hospital system sandeepreddy\$ *cd PROJECT*

(myvenv) sandeeps-MacBook-Pro:hospital system sandeepreddy\$ *python3 main.py runserver*

(myvenv) sandeeps-MacBook-Pro:PROJECT sandeepreddy\$ *python3 main.py runserver*

* Serving Flask app 'main'

* Debug mode: on

** Running on http://127.0.0.1:5000*

Then go ahead and open the above link in the chrome and you should be seeing the project website