

A PROJECT PROPOSAL ON

WEB APPLICATION FOR COVID HOSPITAL MANAGEMENT AND BED SLOT BOOKING SYSTEM

SUBMITTED IN COMPLETE FULFILLMENT OF THE
REQUIREMENTS FOR THE AWARD OF THE DEGREE OF

BACHELOR OF TECHNOLOGY

IN

[INFORMATION TECHNOLOGY]

Submitted by:

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PROBLEM STATEMENT

The outbreak of Coronavirus in the world has big implications for the world. The closure of higher education institutions as well as the broader measures undertaken in many countries to restrict mobility of citizens and increase social distancing hampers the regular implementation of most of the ongoing or planned activities. The Commission and the Agency are acutely aware of the difficulties faced by project beneficiaries in this respect. Our foremost concern, is the safety and protection of all the citizens.

BRIEF IDEA OF THE PROJECT

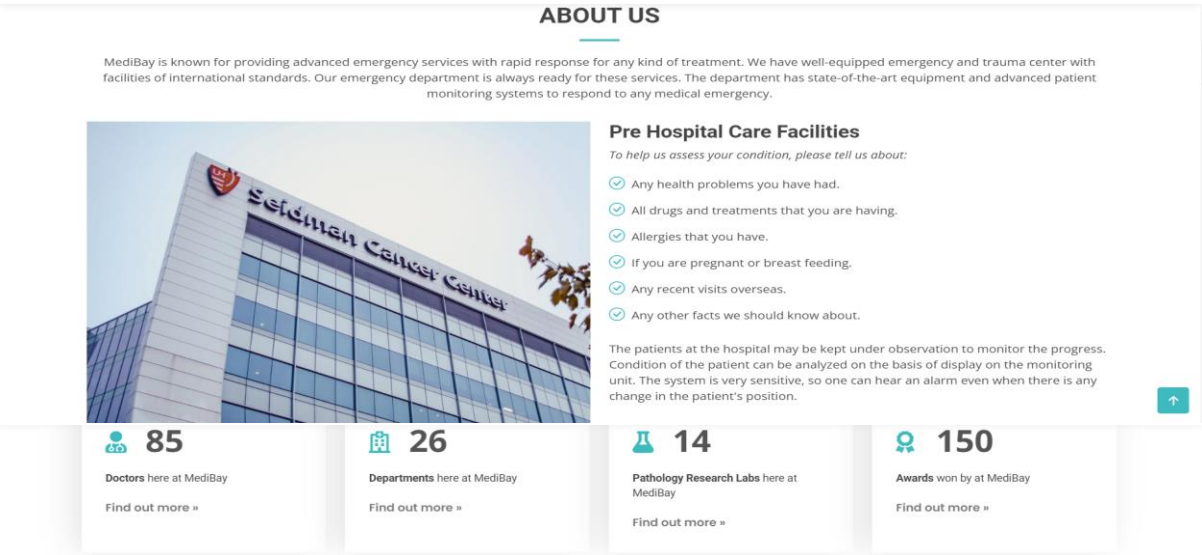
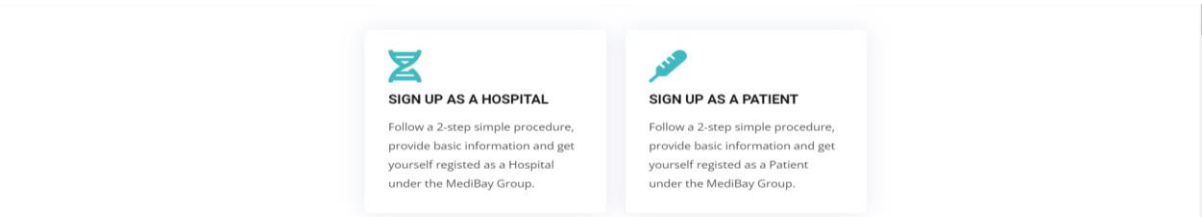
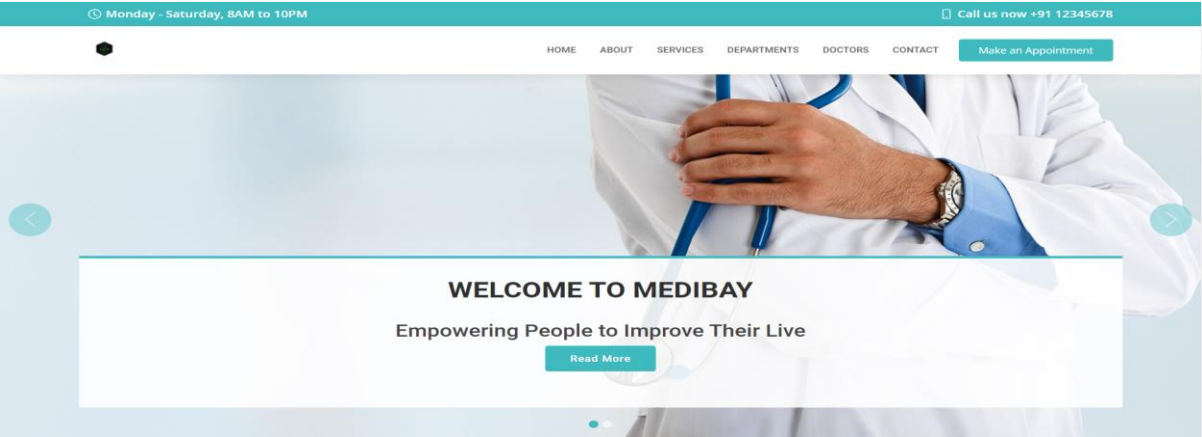
The current standard operating procedure in healthcare environment for patient registration and appointment scheduling are time consuming and somehow troublesome. “**MEDIBAY**” is a web-based mobile application develop for managing appointment-booking process for a few medical organizations, regardless of the type of service they schedule.

We have created 3 views namely:

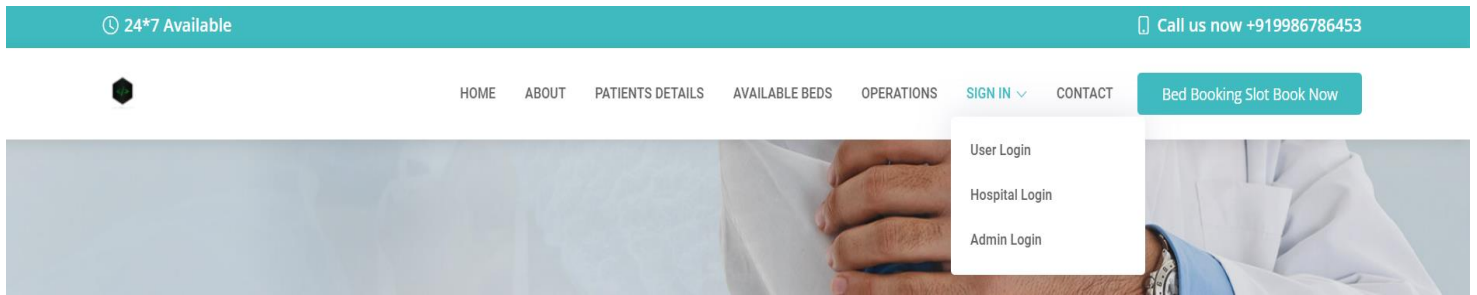
1. Admin Login and signup View
2. Hospital Login and signup view
3. Patient Login and signup View

The Admin has the rights to create an account for a hospital that wants to get itself registered with the “**MEDIBAY**” Application. The Login credentials and password are sent to the hospitals and patients with via an E-MAIL with the help of Triggers. On receiving the login credentials, the hospital can login into their accounts and can enter the details about Number and types of beds available, details about the doctors, room numbers etc. On receiving the login credentials, the patient can login into their accounts and can enter the personal details and can schedule an appointment with the doctors, book the beds and also access the emergency services for situations like COVID. In a nutshell, the practices will have to sign up on the online appointments portal themselves and can view the appointment made by user, the patients. It will help user, the patients to book their appointment using the “**MEDIBAY**” application. Furthermore, Prototype Model is used to develop this system. As for the hardware and software used to develop this system is MySQL Database and programming language use is Flask for the backend and HTML, CSS and JavaScript. By developing this system, it will reduce the number of calls for an appointment and avoid the morning rush for an urgent appointment. Also, it will potentially reduce the need for extra reception staff, a significant reduction in labour. Furthermore, it helps user in time saving and avoiding the need to negotiate with the receptionist for a convenient appointment time. This technology can transform the current daunting appointment process and enable them to run more efficiently, effectively and profitably.

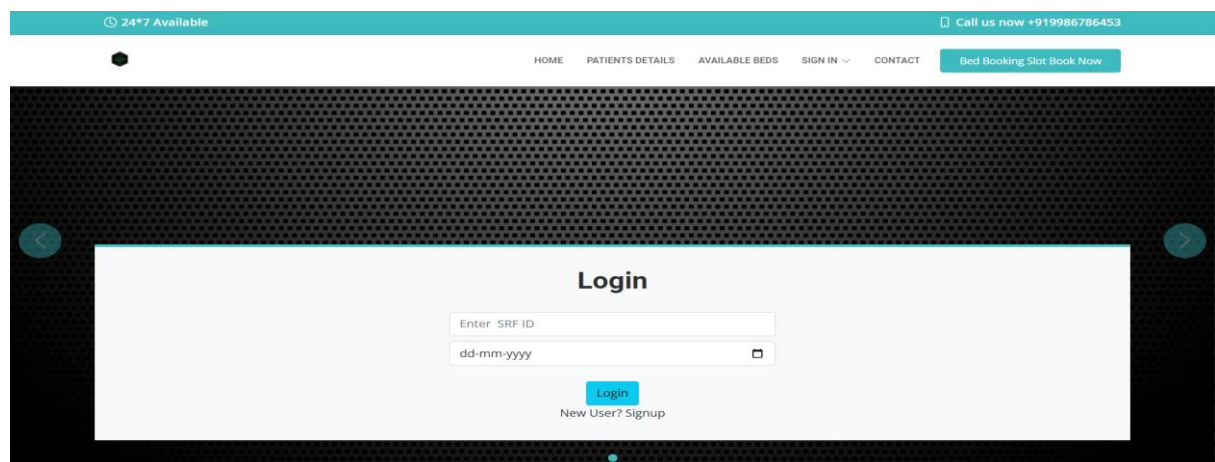
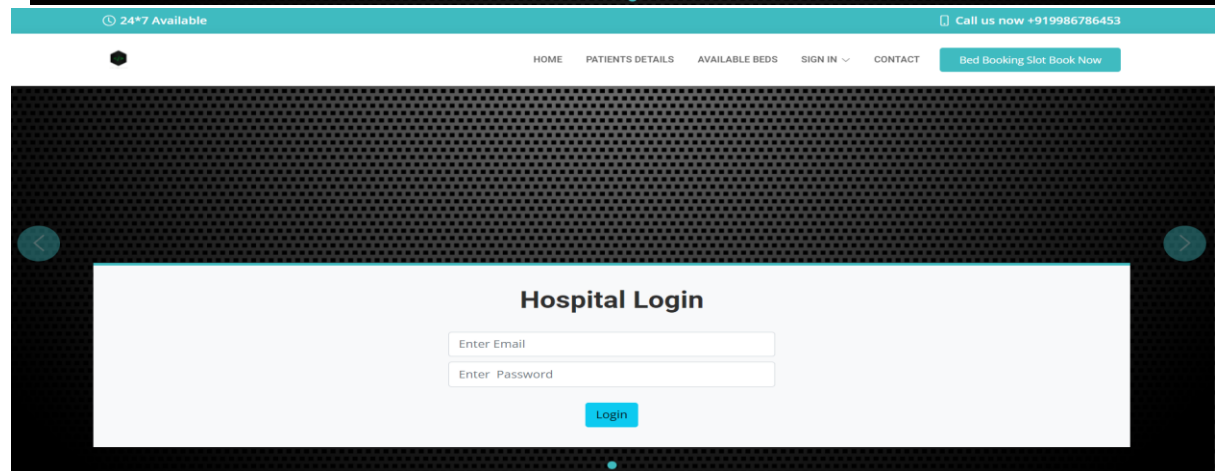
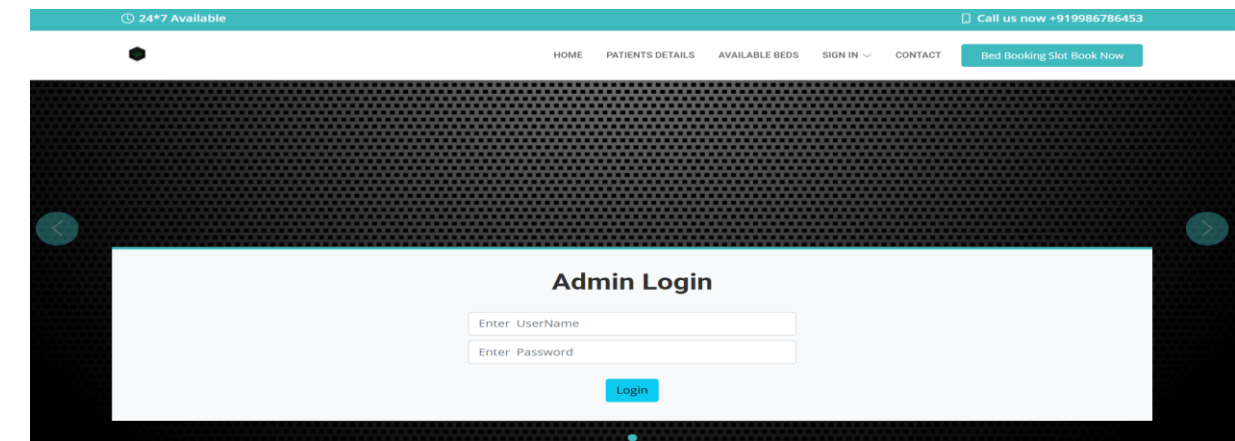
1. HOME PAGE



2. THE 3 LOGIN VIEWS



ADMIN LOGIN



SCHEMA

ADMIN

<u>USERNAME</u>	Password
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HOSPITAL USER

<u>HCODE</u>	Email	Password	net income
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HOSPITAL LOGIN

<u>ID</u>	hname	hcode	ICUBED	HICUBED	payment_status	verification status
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HOSPITAL INFORMATION

<u>room_id</u>	N_bed	V_bed	no_of_sharing_patients	category	size	price	<u>owner_id</u>	facility
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PATIENT USER

<u>SRFID</u>	food_charges	discount	balance	DOB	Email
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FOOD

<u>room_id</u>	price _From	price_till	breakfast_start	breakfast_end	lunch_start	lunch_end	dinner_start	dinner_end
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FACILITIES

<u>numbers</u>	facility
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BOOKPATIENT

<u>HCODE</u>	bedtype	P_address	P_phonenumber	SRFID	SPO2	Oxygen_vitals
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PAYS

<u>p_id</u>	<u>h_id</u>	date_time	mode_of_payment	amount_paid
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RATINGS

<u>p_id</u>	<u>h_id</u>	Rating
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CONCEPTS USED

1. DDL
2. DML
3. referential integrity constraints
4. constraints
5. aggregation functions
6. triggers
 - To send E-mails to users
 - To calculate average rating
 - To assign category to users
7. views
 - Admin Login and Signup
 - Hospital Login and Signup
 - Patient Login and Signup
8. sequence
 - for patient_id
 - For room_id
9. transactions
 - For paying the due amount
 - For checking the food timings
10. index
 - 2° index for facilities availing
11. procedure
 - For inserting patient, hospital and admin details
 - For inserting room and food details

CODE

The code has been converted to a zip file and uploaded to the drive.

Drive Link of the code:

<https://drive.google.com/file/d/1qkdUXpEwewqsCnUrk0EZI15m8FUeZhCk/view?usp=sharing>

POWERPOINT PRESENTATION

Drive Link of the PPT:

https://docs.google.com/presentation/d/1l-GYdwxI55ygDBaujEp8pBlw_rcjREpATjb1rvaY2Ts/edit?usp=sharing