# DOCTORS BOOKING SYSTEM

BOOKFAST

**A PROJECT REPORT SUBMITTED IN PARTIAL**

**FULFILMENT OF REQUIREMENT**

**FOR THE AWARD OF THE DEGREE**

## MASTER OF COMPUTER APPLICATION(MCA)

**OF**

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

**BY**

**SHIMRON RAJ**

**Reg No : 22PMC153**

MARIAN COLLEGE
KUTTIKKANAM
(AUTONOMOUS)

MAKING COMPLETE

## Marian College Kuttikanam Autonomous

**Peermade, Kerala – 685 531**

**2022**

A Project Report on

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**Under the guidance of**

**Sr ITALIA JOSEPH MARIA**

**Assistant Professor**

PG Department of Computer Applications

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## PG DEPARTMENT OF COMPUTER APPLICATIONS

# Marian College Kuttikkanam Autonomous

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

**KUTTIKKANAM – 685 531, KERALA.**

# CERTIFICATE

This is to certify that the project work entitled

## DOCTORS BOOKING SYSTEM

is a bonafide record of work done by

## SHIMRON RAJ

**Reg. No 22PMC153**

In partial fulfilment of the requirements for the award of Degree of

## MASTER OF COMPUTER APPLICATIONS [MCA]

During the academic year 2022-2023

**Sr ITALIA JOSEPH MARIA**
Assistant Professor
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# ACKNOWLEDGMENT

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**SHIMRON RAJ**

# ABSTRACT

The doctors booking system is an online platform designed to facilitate the efficient scheduling and management of medical appointments between patients and doctors. The system provides a user-friendly interface where patients can search for available doctors, view their profiles and specialties, and book appointments based on their preferred date and time slots.Allowing them to book appointments from anywhere and at any time.

# OBJECTIVE AND SCOPE OF THE PROJECT

The main objective of developing DOCTORS BOOKING SYSTEM is provide a user-friendly environment to book slot for doctor appointment in an easy and efficient way.

There are many objectives of DOCTOR BOOKING

- Its cost effective and saves time - By reducing the time taken for waiting in a queue for consulting a doctor.
- 24/7 accessibility from, anywhere
- The ability to provide review
- Easy to book their appointment

# METHODOLOGY OF THE PROJECT

This project 'DOCTORS BOOKING SYSTEM' aims to book their slot for consulting a doctor ,where users have to register for his/her account with necessary credentials, Admin can add/edit/delete their information. It has two main modules: Admin and User.

It has done using python as frond end and sqlite3 as backend. And Django-Jazzmin to customize django-admin.

## HARDWARE SPECIFICATION:

- Processor: Intel Core i5
- Hard Disk:1TB
- Ram:8GB

## SOFTWATE SPECIFICATION:

- Database server: Sqlite3
- Client: Microsoft Internet Explorer or any browser
- Development Tools: Pycharm. Microsoft visual studio code
- Programming Language: Python

## CONCLUSION

In conclusion, the development of a doctor booking system involves a systematic approach to ensure the successful creation of a user-friendly and efficient platform for scheduling appointments. A well-designed doctor booking system offers numerous benefits, such as improved accessibility for patients, streamlined appointment scheduling processes, reduced administrative workload. As doctor booking system can significantly enhance the efficiency and convenience of appointment scheduling,

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# 1.INTRODUCTION

## 1.1 PROBLEM STATEMENTS

The existing process of booking appointments with doctors is often time-consuming, inefficient, and inconvenient for patients. The traditional methods, such as phone calls or in-person visits, lack flexibility and can result in long waiting times or scheduling conflicts. This leads to frustration for patients and can result in delayed or missed medical care.

Additionally, healthcare providers and administrative staff face challenges in managing appointment schedules, tracking patient information, and maintaining an organized system. Manual processes for appointment booking, rescheduling, and managing patient records are prone to errors and can consume significant time and resources.

Therefore, there is a need for an improved doctor booking system that addresses these challenges and provides a seamless and user-friendly experience for patients, while streamlining administrative tasks for clients.

## 1.2 PROPOSED PROJECT

The proposed project is an online doctor booking system that aims to provide a convenient and streamlined process for patients to schedule appointments .The system will be designed to address the challenges faced by patients in the traditional appointment booking process, offering a user-friendly interface and automated features to enhance efficiency and accessibility.Key Features and Functionality are User Registration,Doctor Profiles and Availability,Appointment Scheduling,Ratings,etc

## 1.3 FEATURES OF PROPOSED SYSTEM

- User can register and performs their functions
- User can book their slot
- User can view doctors profile
- User can rate their hospital out of 5

# 2.FUNCTIONAL REQUIREMENTS

1. **User Registration and Authentication:**

- Patients should be able to create user accounts by providing necessary information.
- The system should authenticate and validate user credentials during login.

2. **Doctor Profile Management**:

- Doctors should be able to create and manage their profiles, including personal details, specialties, qualifications, and availability.
- Doctors should have the option to update their profiles and make changes to their availability through admin.

3. **Appointment Scheduling:**

- Patients should be able to search for doctors based on various criteria such as specialty, and availability.
- Patients should be able to view available time slots and book appointments with their preferred doctors.
- The system should handle appointment conflicts and prevent double bookings.

4. **Ratings:**

- Patients should have the ability to provide ratings for hospital they have visited.

5. **Admin can add/delete reviews/details of doctor**

- Admin have the privilege to access all the features

6. **Logout**

# 3.NON FUNCTIONAL REQUIREMENTS

## 3.1 RELIABILITY

Reliability is an essential non-functional requirement for the doctor booking system, ensuring that the system performs consistently and reliably under various conditions. The reliability of the system contributes to building trust among users, preventing data loss or corruption, and minimizing system failures.Also the system will be functioning inside a container. Thus, the overall stability of the system depends on the stability of container and its underlying operating system.

## 3.2AVAILABLITY

Availability is a crucial non-functional requirement for the doctor booking system, ensuring that the system remains accessible and operational for users whenever they need it. High availability minimizes downtime, ensures uninterrupted service, and contributes to user satisfaction..It means 24 X 7 availability.

## 3.3 MAINTAINABLITY

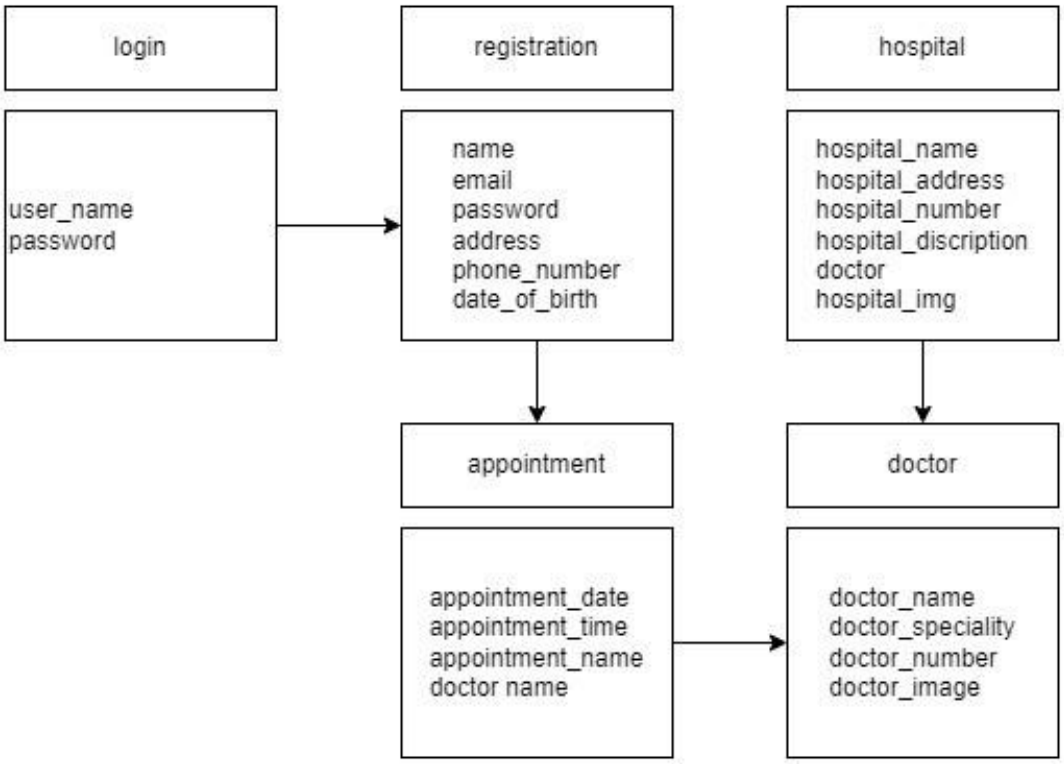
It ensuring that the system can be easily maintained, updated, and enhanced over time. A maintainable system is cost-effective to manage, allows for efficient bug fixes and updates, and supports future enhancements.

## 3.4 SUPPORTABLITY

The code and supporting modules of the system will be well documented and easy to understand. Online documentation and help system requirements.

# 4.UML DIAGRAMS

# 4.1 CLASS DIAGRAM



# 5.INPUT DESIGN AND OUTPUT DESIGN

## INPUT DESIGN

Input design is one of the most important phase of the system design. Input design is the process where the input received in the system are planned and designed, so as to get necessary information from the user, eliminating the information that is not required. The aim of the input design is to ensure the maximum possible levels of accuracy and also ensures that the input is accessible that understood by the user.

## OUTPUT DESIGN

Output design is very important concept in the computerized system, without reliable output the user may feel the entire system is unnecessary and avoids using it. The proper output design is important in any system and facilitates effective decision-making.

# 6.FUTURE ENHANCEMENT

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1. **Artificial Intelligence (AI) Chatbots:** Implement AI-powered chatbots to provide automated support to patients. Chatbots can handle common inquiries, assist with appointment scheduling, answer basic medical questions, and provide information about doctors and services.
2. **Real-Time Availability Updates**: Enhance the system to provide real-time updates on doctor availability. Patients can view up-to-date information on doctors' schedules, including any cancellations or rescheduling, ensuring accurate and timely booking.
3. **Advanced Search and Filters:** Improve the search functionality by implementing advanced filters based on specialties, locations, languages, ratings, and other criteria. This enables patients to refine their search and find the most suitable doctors.
4. **Mobile Application:** Develop a mobile application for the doctor's booking system, allowing patients to access the system on their smartphones. The app can provide a user-friendly interface, push notifications for appointment reminders, and easy access to doctor profiles and schedules.

# 9. CONCLUSION

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In conclusion, the doctor booking system is a valuable solution that streamlines the process of scheduling appointments with doctors. It provides numerous benefits for patients, doctors, by offering a convenient and efficient way to manage appointments and improve the overall healthcare experience.

Throughout this project, we have discussed various aspects of the doctor booking system, including its methodology, proposed features, functional and non-functional requirements, and potential future enhancements. The system's methodology involves stages such as analysis, design, development, testing, and deployment, ensuring a systematic and well-structured approach to its implementation.

# 10.REFERENCES

# REFERENCES


- Stack Overflow: https://stackoverflow.com/
- ChatGPT
- Django Jazzmin Documentation
- https://www.quickobook.com/hospitals

# 11.ANNEXURE

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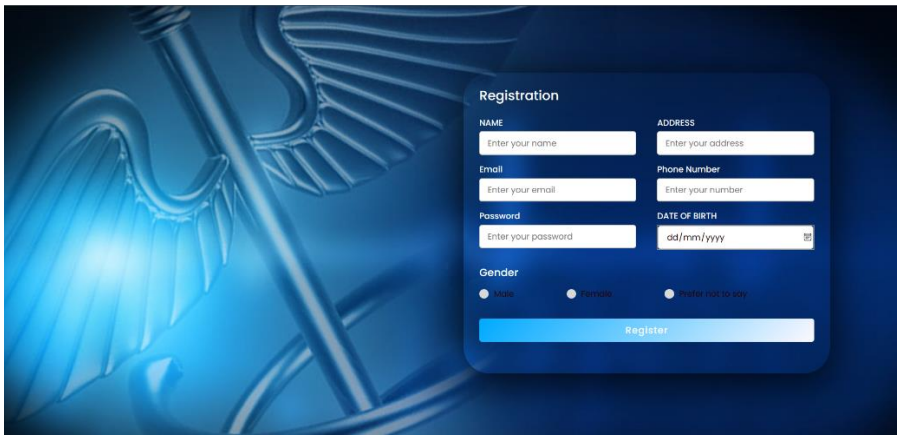
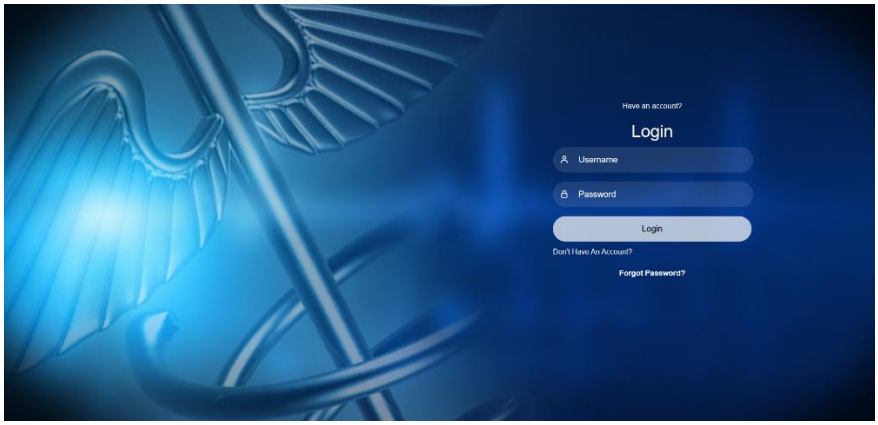
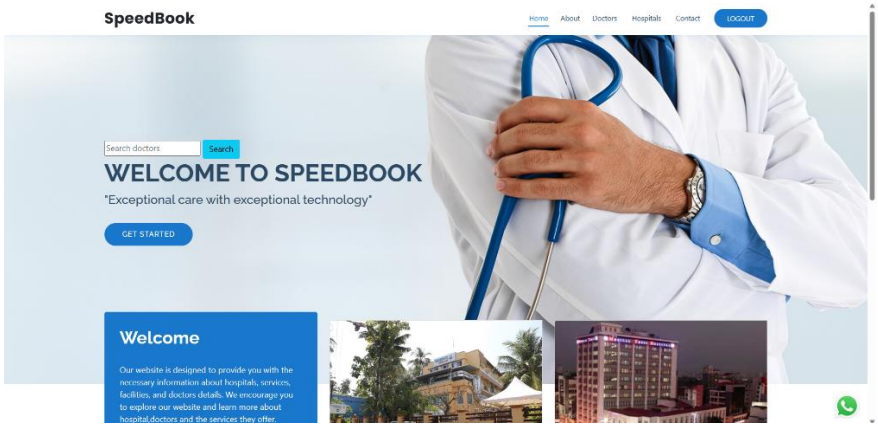
## Registration Page



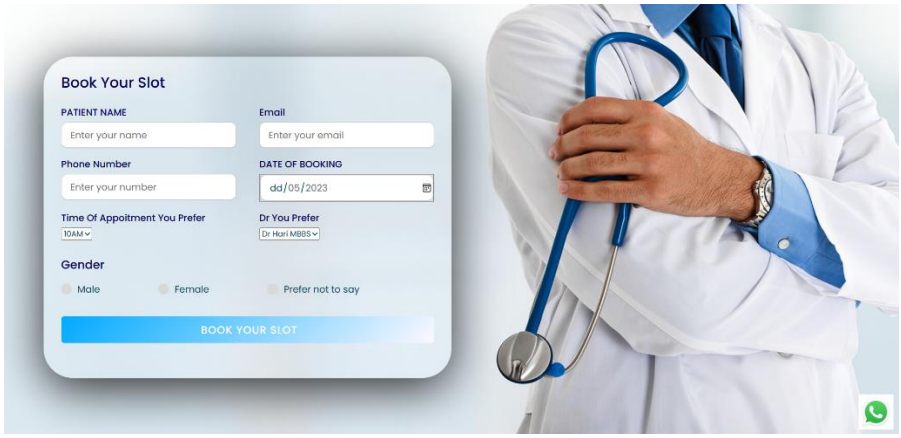

## Login Page



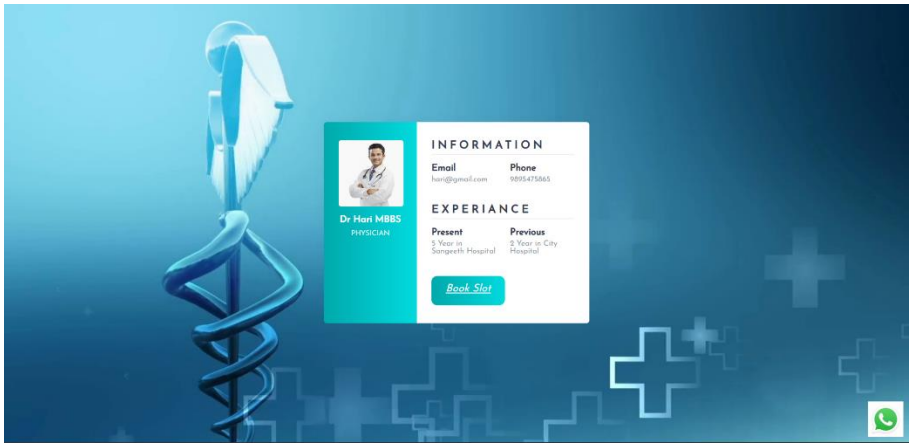

## Home Page



## Book slot Page

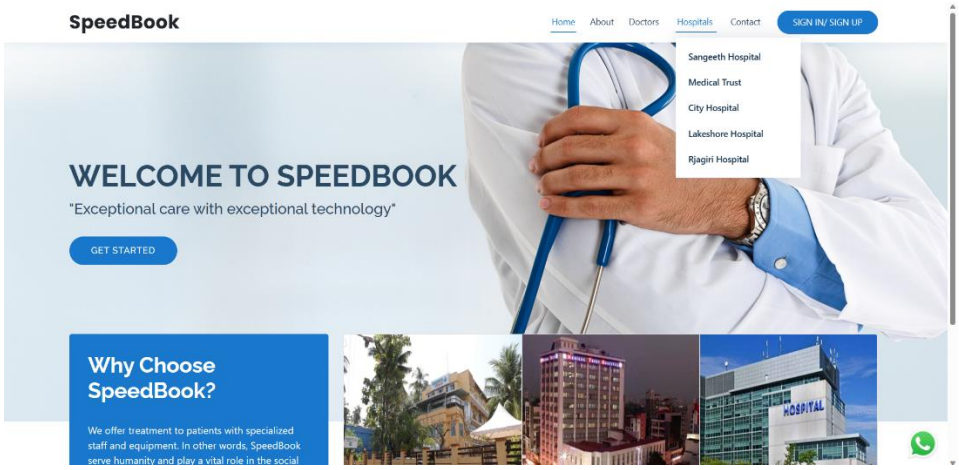



## Doctors Profile Page



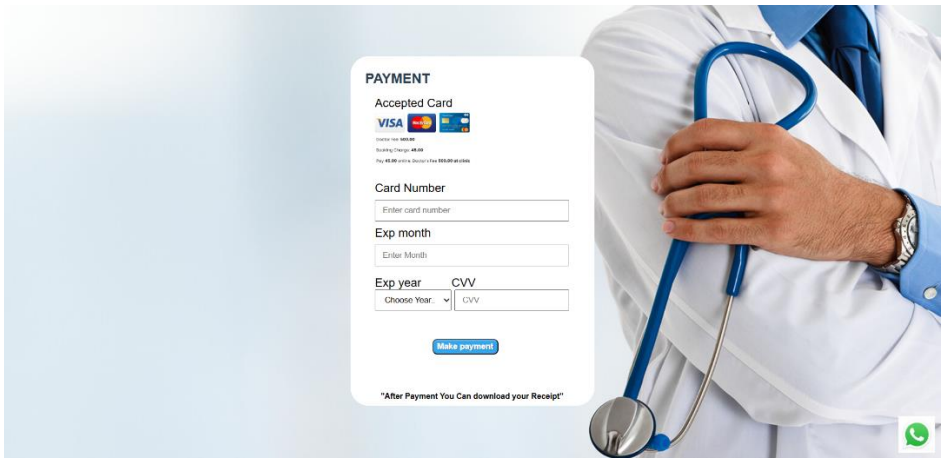

## Hospital Page

## Hospital Name View

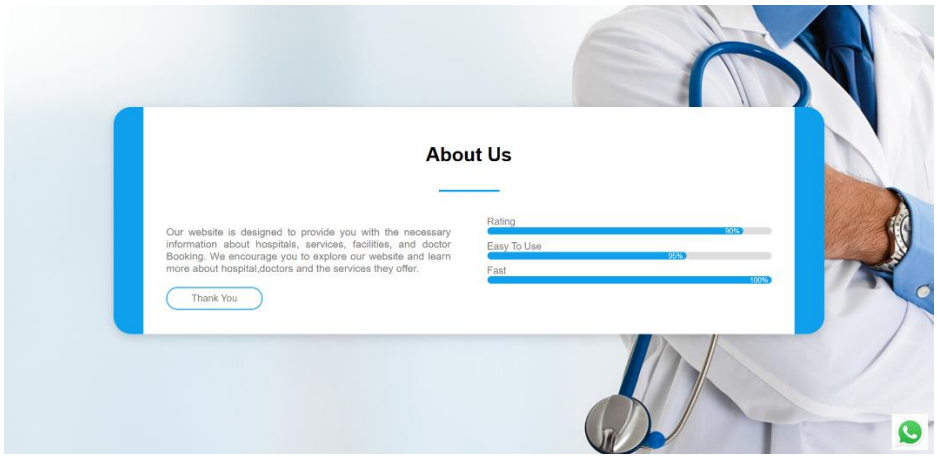



## Rating Page

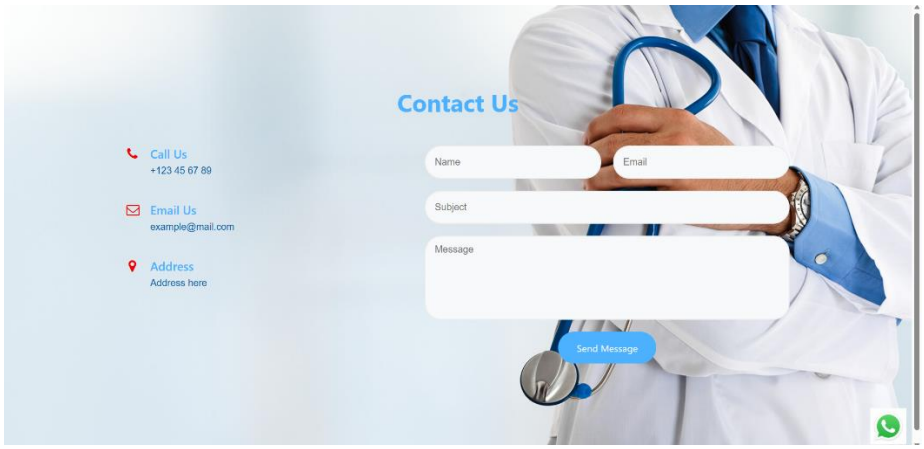

## Payment Page



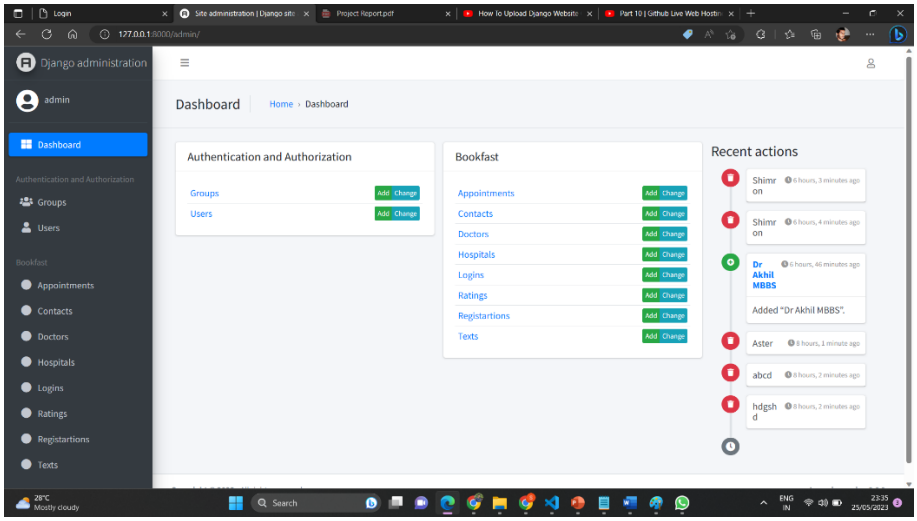
## About Page




## Contact Page




## Admin



## Admin Hospital