



PARSHWANATH CHARITABLE TRUST'S

**A.P. SHAH INSTITUTE OF TECHNOLOGY**

Department of Computer Science and Engineering

Data Science



# **CarePlus:**

## **A Smart Clinic for personalized healthcare**

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**Project Guide**  
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# 1. Introduction

## Problems identified :

- ▶ 1. Manual Record-Keeping & Data Loss : Clinics often rely on paper records, which can be misplaced or damaged.
- ▶ 2. Inefficient Appointment Scheduling : Overlapping appointments and long wait times cause inconvenience.
- ▶ 3. Lack of Communication Between Patients & Clinic : Patients struggle to reach the clinic for queries or updates.

## Problems Solutions :

- ▶ 1.Solution: CarePlus digitizes patient records, ensuring secure storage and easy access.
- ▶ 2. Solution: CarePlus offers an automated scheduling system, reducing conflicts and improving time management.
- ▶ 3.Solution: CarePlus includes chat support and notifications, enabling real-time communication.

## 2. Objectives

1. To automate appointment scheduling , registration and billing.
2. To provide a feedback system for doctors and patients.
3. To build reminders and notification system.
4. To provide patients with quick and reliable answers through chat support.

### 3. Scope

1. Can be applied in Small private clinics and diagnostic centers.
2. Can be useful to doctors, nurses, and receptionists for handling patient records efficiently and reducing manual paperwork errors.
3. Can be applied in Physiotherapy and rehabilitation centers.
4. Can be useful to physiotherapists and therapy coordinators for managing patient appointments and treatment schedules without any problems.
5. Can be useful for patients to easily book appointments and consult with doctors online from home.

## 4. Feature /Functionality

1. Online Appointment Booking System – Allows patients to choose a preferred date and time, and confirm their appointment online . Patients can also reschedule or cancel appointments as needed.
2. Chat-Based Doctor Consultation – Provides messaging feature where patients can consult with doctors online, discuss symptoms and receive advice, a without visiting the clinic.
3. Patient Records Management – Maintains a digital record of patient details, including previous consultations. This helps doctors access complete patient information easily during consultations.
4. In-App Notifications & Reminders – Provides a section where patients can check appointment reminders, doctor updates, and other important notifications anytime.
5. Patient Feedback & Ratings – Allows patients to provide feedback for their experience with doctors. This helps clinic improve their services.

## 5. Outcome of Project

1. Signup – New patients can create an account by entering username and password.
2. Login – Existing patients can log in securely using their username and password.
3. Appointment Booking – Patients can easily book, reschedule, or cancel appointments as needed.
4. Chat Consultation – Patients can message doctors for consultations regarding their health concerns.
5. View Appointments – Patients can view a list of their past booked appointments for reference.
6. Notifications & Reminders – Patients can check upcoming appointments and reminders
7. Feedback & Ratings – After consultations, patients can rate the experience and provide feedback.

## 6. Technology Stack

### 1. Frontend:

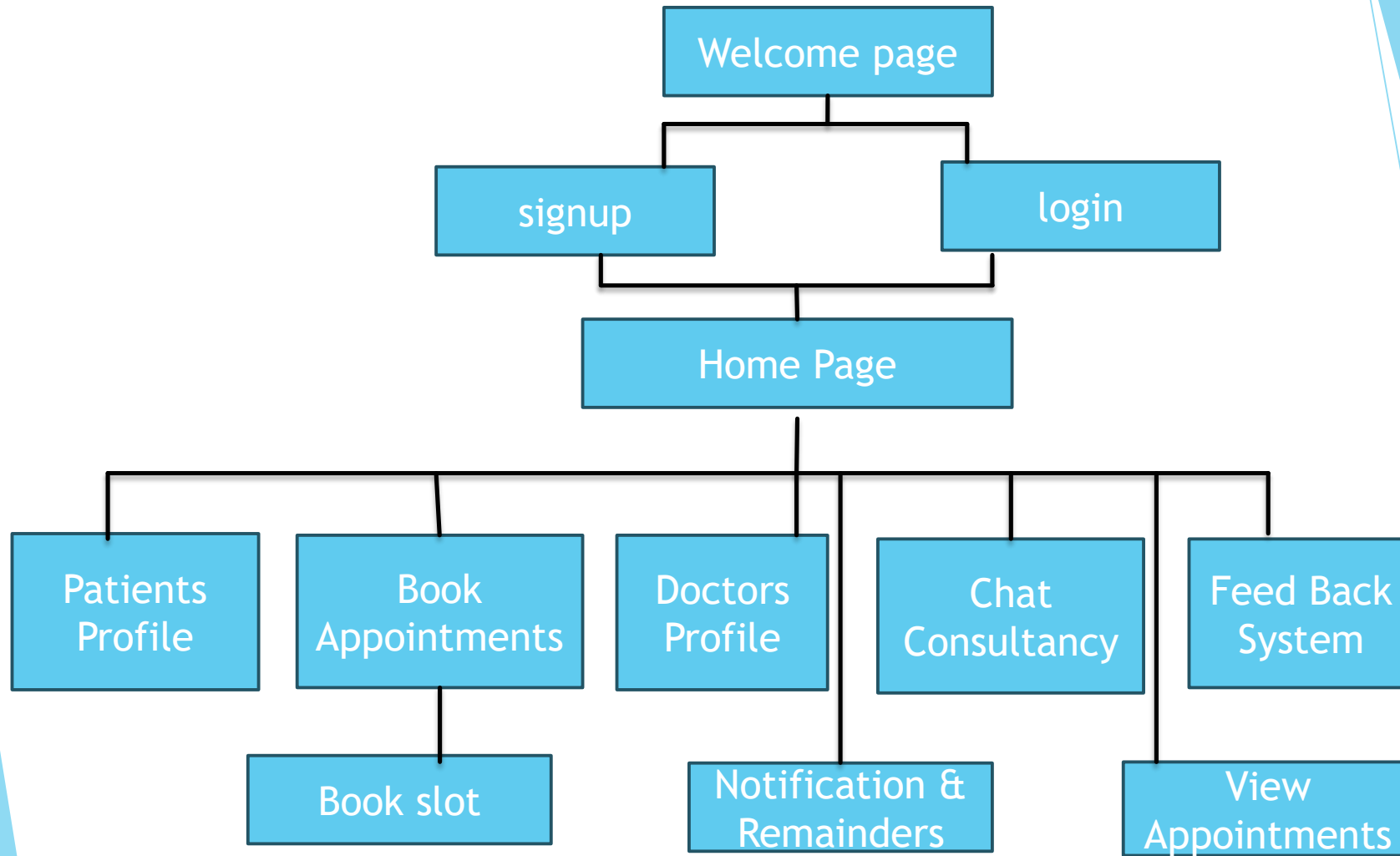
- Python ( Tkinter ): For the graphical user interface (GUI).

### 2. Backend:

- MySQL: For managing patient's past record, appointments slot and billing record.
- Python (MySQL Connector): To connect and perform database operations.



# 7. WorkFlow Diagram



Thank You...!!