

---

## Main Project Abstract

Abhishek A S

Roll No : 03

RMCA - A

---

---

## Introduction

A pulmonary disease care system is an online marketplace that specializes in selling medical equipment, supplies, and products that are used in the treatment and management of pulmonary diseases. Pulmonary diseases are conditions that affect the respiratory system, such as chronic obstructive pulmonary disease (COPD), asthma, and cystic fibrosis.

The ecommerce platform provides a convenient and accessible way for patients and caregivers to purchase necessary medical devices and supplies, such as oxygen concentrators, nebulizers, inhalers, masks, tubing, and filters. The platform can also offer prescription medication and nutritional supplements.

The platform can provide a range of features and functionalities, such as a product catalog, a shopping cart, a payment gateway, user registration and login, order management, product reviews and ratings, analytics and reporting.

The platform can also provide educational resources, such as informational articles and videos, and a community forum where patients and caregivers can share experiences and advice.

Overall, a pulmonary disease ecommerce platform provides a valuable service to patients and caregivers by making it easier and more convenient to access the medical devices, supplies, and products needed for managing and treating pulmonary diseases. In this project, prescription is generated using the Voice. Once login is done, a doctor is ready to prescribe a prescription. There are two options available to provide input, first is voice input shows the prescription input page. Here, to record voice prescription, a start button should be clicked. After clicking the start button, it starts recording voice prescriptions. The other available option is text file input. Output is generated in the form of a pdf document. Generated pdf is applicable to the various concerned departments.

## Modules

**Product Catalog:** This module would include a comprehensive catalog of all products related to pulmonary disease care. This could include equipment such as oxygen concentrators, nebulizers, and inhalers, as well as supplies like masks, tubing, and filters.

**Shopping Cart:** This module would enable users to add items to their cart and proceed to checkout when ready to purchase.

**Payment Gateway Integration:** This module would allow users to securely make payments using a variety of payment options, including credit/debit cards, PayPal, or other digital payment methods.

**User Registration and Login:** This module would enable users to create and manage their accounts, which would include personal and shipping information as well as order history.

## Technologies

FrontEnd : React Js

Backend : Node.js, MongoDB

---

---

#### ADDED Module COLLECTION DESIGN

Sl No	Field Key	Type	Description
1	appointment_id	String	Unique identifier for the appointment record
2	doctor_id	String	Unique identifier for the doctor who conducted the appointment
3	patient_id	String	Unique identifier for the patient who attended the appointment
4	appointment_time	DateTime	Date and time of the appointment
5	duration_minutes	Integer	Duration of the appointment in minutes
6	appointment_type	String	Type of the appointment (e.g. follow-up, initial consultation)
7	prescription_id	String	Unique identifier for the prescription record
8	medication_name	String	Name of the medication prescribed
9	dosage	String	Dosage instructions for the medication
10	start_date	Date	Start date of the prescription
11	end_date	Date	End date of the prescription
12	refills	Integer	Number of refills allowed for the prescription

#### Appointment Collection.js:

Sl No.	Field Key	Type	Description
1	appointment_id	String	Unique identifier for the appointment record
2	doctor_id	String	Unique identifier for the doctor who conducted the appointment

---

3	patient_id	String	Unique identifier for the patient who attended the appointment
4	appointment_time	DateTime	Date and time of the appointment
5	duration_minutes	Integer	Duration of the appointment in minutes
6	appointment_type	String	Type of the appointment (e.g. follow-up, initial consultation)
7	notes	String	Additional notes about the appointment