**VIRTUAL HEALTHCARE WITH A.I**

**Mini Project Report**

submitted in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY**

**in**

**COMPUTER SCIENCE** **and ENGINEERING**

**(ARTIFICIAL INTELLIGENCE and DATA SCIENCE)**

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**April 2024**

**GMR INSTITUTE OF TECHNOLOGY**

**Department of Computer Science and Engineering**

**(Artificial Intelligence and Data Science)**

**CERTIFICATE**

This is to certify that the project report entitled “**Virtual Healthcare with A.I.**” is the bonafide record of project work carried out under my supervision by **R.SANDHYA (22345A4501), K.VARSHITHA(21341A4526), Y.G.S.N.ISHWARYA (21341A4565), B.VASAVI (21341A4509), and N. LIKHITH (21341A4537)**, during the academic year 2021-2025, in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Computer Science and Engineering of Jawaharlal Nehru Technological University, Vizianagaram. The results embodied in this project report have not been submitted to any other University or Institute for the award of any Degree or Diploma.

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**ABSTRACT**

Regular hospital visits can be expensive to people, particularly in rural areas, due to long distance travelling to hospitals or travel costs. For the medical checkups and treatments, people mostly visit the hospitals. The method of visiting hospitals or clinics making appointments with the doctors exhausting ourselves in the long queues in the hospitals. Instead of visiting Hospitals, people can take virtual healthcare through mobile or laptops. Virtual Healthcare with Artificial Intelligence allows video or chat functionality for real-time communication between patients and doctors to address their daily health issues without going to a clinic. When the communication is going on between the patient and doctor, Automatic Speech Recognition technology is used to convert spoken words from doctors into text, facilitating prescription. A medication reminder to remind patients to take their medications based on the timings specified in the prescription in the form of SMS messages. A secure database to store and manage patient medical history which include prescriptions, treatments, and other relevant health information.

Keywords: Virtual Healthcare, Artificial Intelligence, Video Calling, Speech to Text, Medication Reminder.

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Chapter 1

INTRODUCTION

1. INTRODUCTION

Virtual healthcare is a website which allows video, audio and chat communications between doctors and patients. It helps people to consult with a specialized doctor for remote treatment by registering and booking an appointment in the website. People are uncomfortable opening up to others about how they feel about their problems, so that people who use audio or chat would not be humiliated to speak about the same topic. Virtual Healthcare which can interact with the person and give him all the necessary information regarding his health condition and guide him/her through the solution of the problem. While the communication is going on between doctor and patients, artificial intelligence converts the spoken words from doctors into text using Natural Language Processing and give it to the patients in the form of prescription. A medication reminder to remind patients to take their medications based on the timings specified in the prescription in the form of SMS messages so that they don't end up missing on their courses. Here the user is required to enter his daily medical routine like of Tablets which has to be taken daily, or any other practices. It helps user to maintain his routine so as the missing of any doses of medicine does not affect his/her health. Appointment Scheduler helps the user to keep themselves alarmed for any event or appointment to be attended. The web application is connected to a database. The Doctors will have a secure database contains many tables to store user’s data, medical history and other relevant health information.

Chapter 2

### LITERATURE SURVEY

### 2.LITERATURE SURVEY

Morshedul Bari Antor proposed the development of a web-based telemedicine system for Covid-19 patients, aiming to improve access to healthcare services, especially in rural areas. The system allows remote consultations between patients and doctors through video calls and text messages. It allows patients to store information about their health, search for doctors, and consult medical professionals using text messages and video calls and allows doctors to write blogs, provide prescriptions, and can view the medical history of the patient. [1].In the paper presented by Mrs. Sharvari Patila, it Focuses on developing a virtual assistant for disease diagnosis and a chatbot which can interact with the person and give him all the necessary information like it can predict the disease on the symptoms. a scanner section which provides basic information about the medicine pack on just scanning the medicine pack. And also helps to schedule daily routines like reminding medicines time to time.[2].In the paper presented by Shyam Singha, it developed a virtual assistant in place of a chatbot to understand human emotions well and giving precise responses as well as recognizing human speech and acting smartly. The user can give his symptoms as an input with the help of python’s speech to text library. It uses machine learning to find the appropriate disease as per the given input symptoms. An appointment booking system to book appointments with doctors and the appointment was sent to the user’s email box and the appointments are stored in database. [3].In the paper presented by Ahmed Al Kuwaiti, it is based on uncovering the role of AI in healthcare. The paper mentions the importance of AI in medical imaging, diagnostics, virtual patient care, drug discovery, patient engagement, rehabilitation, and administrative tasks. It also mentions specific impacts such as early diagnosis of clinical conditions, COVID-19 outbreak control, virtual patient care, reducing administrative workload, and enhancing patient engagement and compliance.[4].In the paper presented by Ayesha Amjad, is aimed to study different areas of telemedicine and analyse the effect of AI in the field of health and medicine. The paper also mentions the role that artificial intelligence (AI) plays in telehealth like Data Processing and Diagnostic Accuracy, Virtual Assistants and Chatbots, Remote Monitoring and Early Detection, Automation and Efficiency, Virtual Assistants for Healthcare Delivery. It discusses the potential of AI to improve patient outcomes and reduce healthcare costs. [5].This paper carries out a descriptive study to broadly explore AI's implementations in healthcare delivery with a more holistic view of the usability of various Telemedical Innovations in enhancing Virtual Diagnostic Solutions (VDS). It also mentions how AI models enhance the accuracy and speed of diagnosing conditions through medical imaging, echocardiography, and neurological screenings. Additionally, AI-driven solutions in emotion recognition, teleradiology, and teledermatology optimize workflows, reduce costs, and increase healthcare accessibility and efficiency. [6].In the paper presented by Durga Chavali, it mentions patient engagement by providing 24/7 support and education, improving satisfaction and streamlining administrative tasks. Remote patient monitoring through wearable technology and AI platforms allows for early detection of chronic condition exacerbations, leading to timely interventions.It also presents how the virtual nursing assistants help monitor the patients’ vitals and provide on-time reminders for medication. [7]. In the paper presented by Harsh Taru, it discussed IoT-powered, AI-enabled kiosks that utilize various sensors to provide medical access in remote areas, highlighting the need for improved human-AI interaction. The system includes a self-monitoring maintenance module, ensuring reliable operation and timely issue resolution. It also explored AI's role in patient monitoring and intelligent diagnosis, stressing the importance of balancing AI with human expertise. [8]. The paper presented by MAHMOUD NASR, it discussed the current state-of-the-art smart healthcare systems highlighting major areas like wearable and smartphone devices for health monitoring, machine learning for disease diagnosis, and the assistive frameworks, including social robots developed for the ambient assisted living environment. [9].The paper presented by Atharva Gade, it highlights the significant role of AI in diagnostic support and decision-making, NLP in patient interaction, ML in personalized treatment and predictive analytics, and AR in remote diagnostics and patient engagement. It also mentions the key challenges identified include privacy, data security, ethical considerations, standardization, interoperability, and user acceptance. [10]. The paper discusses the potential of artificial intelligence (AI) to transform the practice of medicine and healthcare delivery. It highlights the recent breakthroughs in the application of AI in healthcare and outlines a roadmap for building effective and safe AI systems. The paper mentions the potential of AI in improving clinical trial design, optimizing drug manufacturing processes, and replacing combinatorial optimization processes in healthcare. [11]. The paper discusses the rise of artificial intelligence (AI) in healthcare applications, highlighting its potential to push boundaries and challenge traditional norms in the field. It mentions the increasing demand for individuals to have more control over the prediction and assessment of their health conditions, driven by a technology-reliable population that believes in the ability of technological innovation to assist in leading healthy lives. The paper emphasizes the collaboration between algorithms and healthcare professionals to produce outcomes that are beneficial for patients, such as remote monitoring through smart devices. [12]. The paper provides a comprehensive and up-to-date overview of the current state of AI in clinical practice, including its potential applications in disease diagnosis, treatment recommendations, and patient engagement. It discusses the challenges associated with implementing AI in healthcare, such as ethical and legal considerations and the need for human expertise. [13]. AI can be used for disease diagnostics, living assistance, biomedical information processing, and biomedical research. In the field of biomedical question answering (BioQA), the aim is to find fast and accurate answers to user-formulated questions from a reservoir of documents and datasets. Natural language processing techniques can be used to search for informative answers and classify biomedical questions into different categories. [14]. That aims to provide healthcare services in a convenient and accessible manner. The system can assist people in getting the healthcare they need in less time and without spending money, addressing the challenges of the busy world we live in today. Researchers have used different methods, such as hybrid genetic algorithms and backpropagation techniques, to predict cardiac diseases and identify heart stroke symptoms early on. [15]

Chapter 3

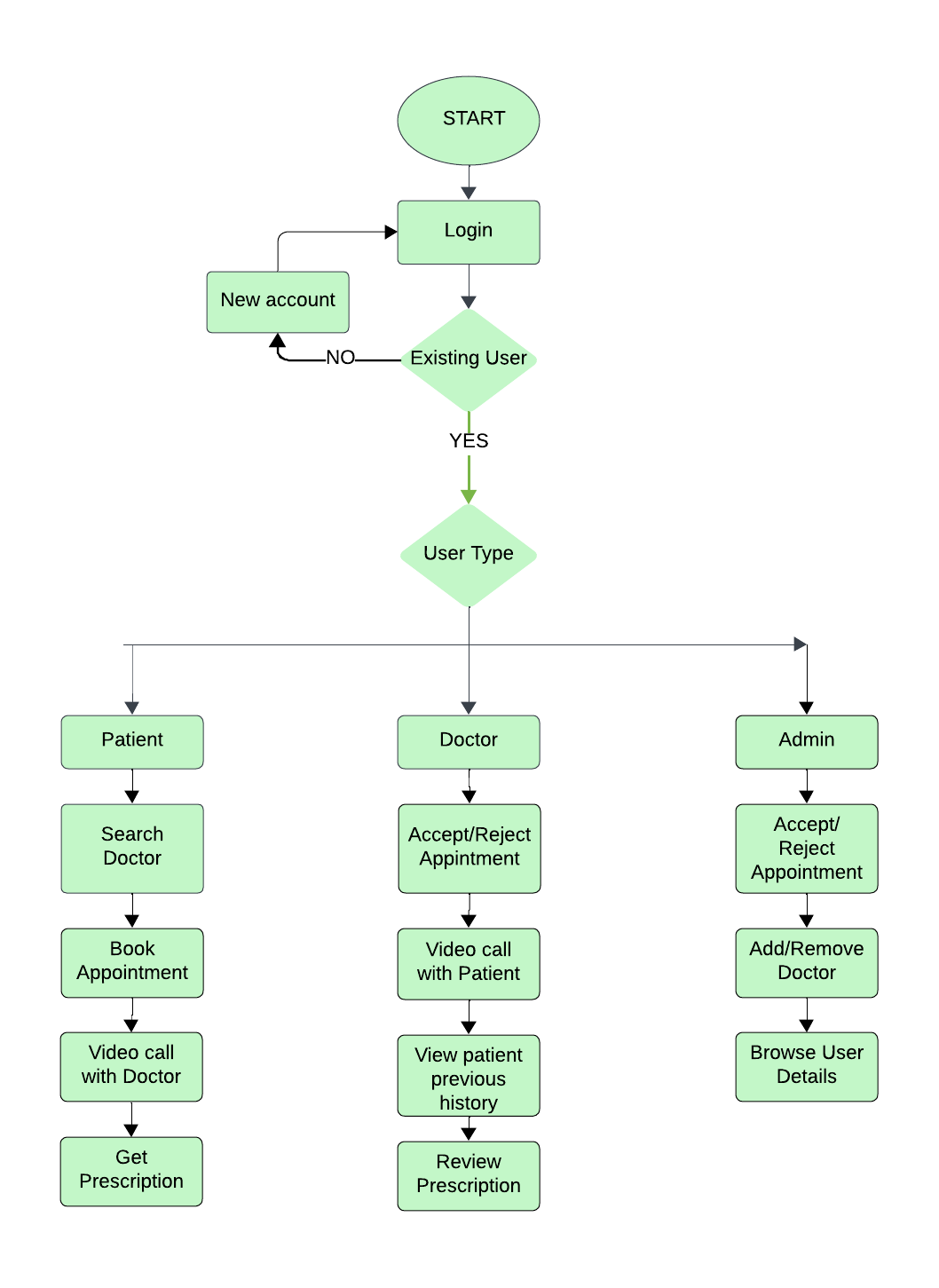
**METHODOLOGY**

**3.METHODOLOGY**

The web application has been developed using HTML, CSS3, Bootstrap, PHP. Agora.io is used to develop a video calling system. PHP was used for database connection. Natural Language Processing libraries like NLTK and spaCy is used for prescription.

**3.1 BLOCK DIAGRAM**

The figure below illustrates the block diagram of the proposed web application, which facilitates remote consultations with doctors for treatment.

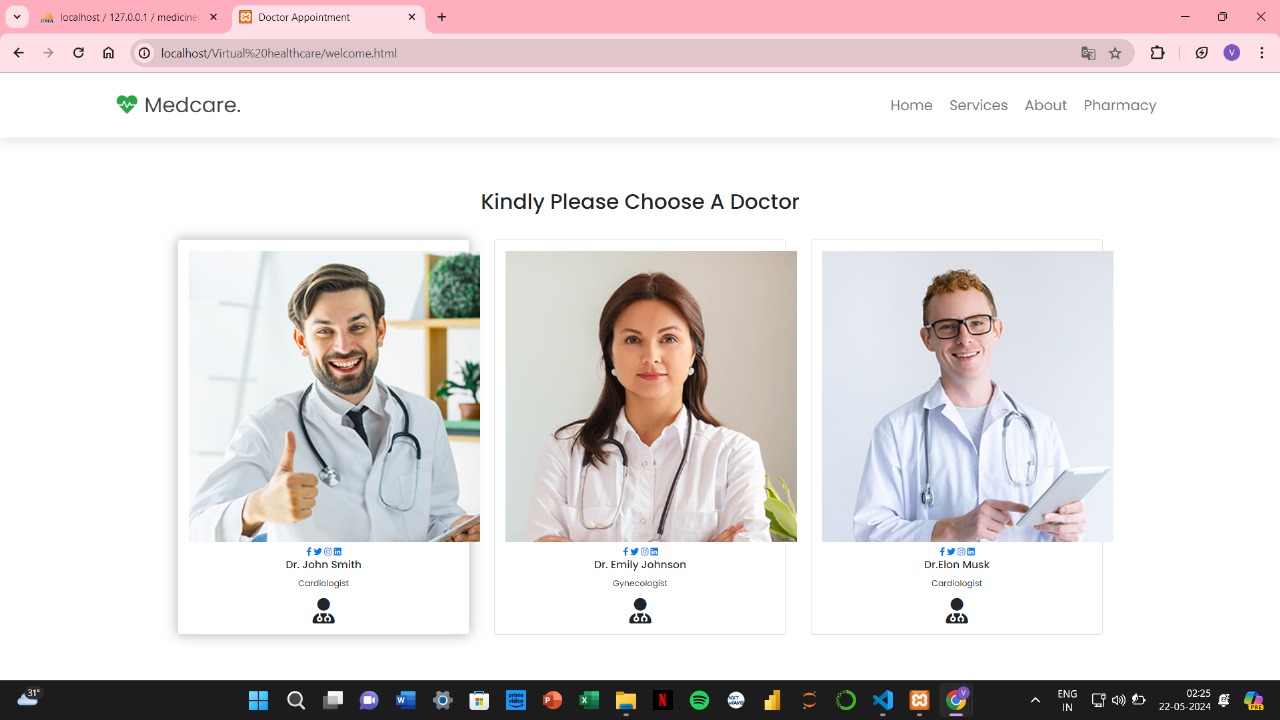


**FIG 1:** Block Diagram of Virtual Healthcare System

Users can access the web application by logging into the website. If already registered, they can log in directly. Otherwise, they need to register first. Users can sign in as a patient, doctor, or admin

**Patient User Interface**

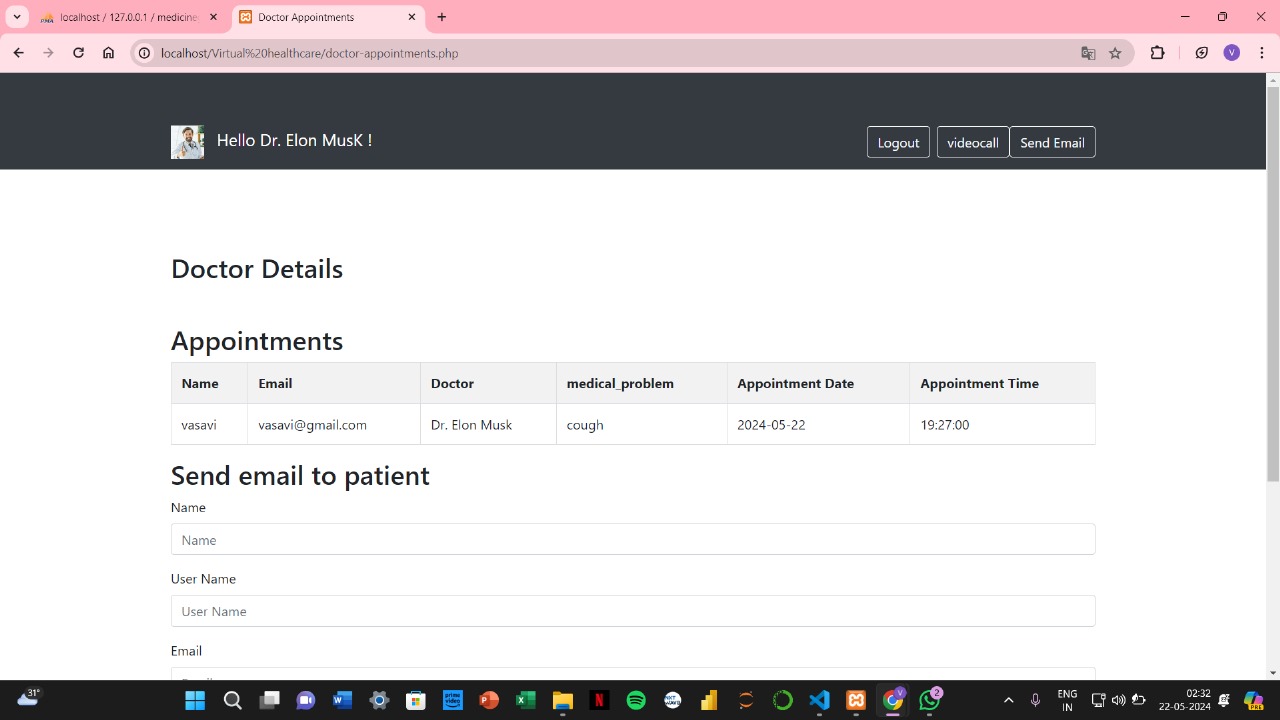
Patients can log in and view a list of doctors on the website. They can also search for doctors and book appointments. At the scheduled appointment time, a patient can get remote treatment by interacting with the specialized doctors to discuss their health issues. After the consultation, patients can view the prescriptions provided by the doctors.



**FIG 2:** Patient User Interface

**Doctor User Interface**

Doctors can log in to the website to view their list of appointments, accepting or rejecting them as needed. They can interact with patients, suggest medications, and prepare prescriptions. Doctors can review and modify prescriptions and access patients' medical histories stored in the database.



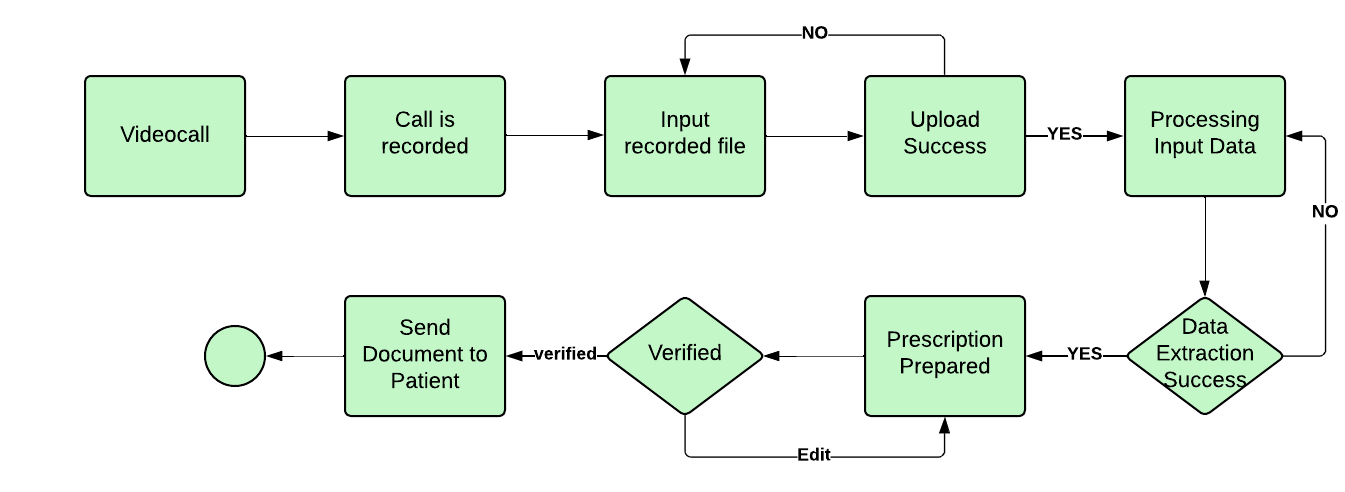
**FIG 3:** Doctor User Interface

**Admin User Interface**

Admins can log in to the website to accept or reject patient appointments. They can add or remove doctors as necessary. Admins can also browse patient details and view patients' medical histories.

**3.2 VOICE PRESCRIPTION**

The prescription is generated from the input audio file recorded by the doctor. The process includes the following steps



**FIG 2:** Prescription Process

**1. Input Recorded Audio File or Live Recording**

The input is provided either as a pre-recorded file or through live recording using an inbuilt microphone, facilitated by a speech recognition module that utilizes PyAudio for microphone interaction.

**2. Converting the Audio File into Text**

The recorded audio input is converted into text format, which is essential for further processing.

**3.Extracting Details from the Text File**

Key information such as patient name, age, drug name, dosage, etc., is extracted from the text using natural language processing libraries like NLTK and spaCy, which utilize built-in functionalities to identify the required entities.

**4. Preparing the Prescription**

The extracted entities are used to prepare the prescription. This step can be accomplished using the Pydox module, and the generated prescription is displayed to the doctor for verification.

**5. Verifying the Prescription**

The doctor verifies the prescription format and details before finalizing it.

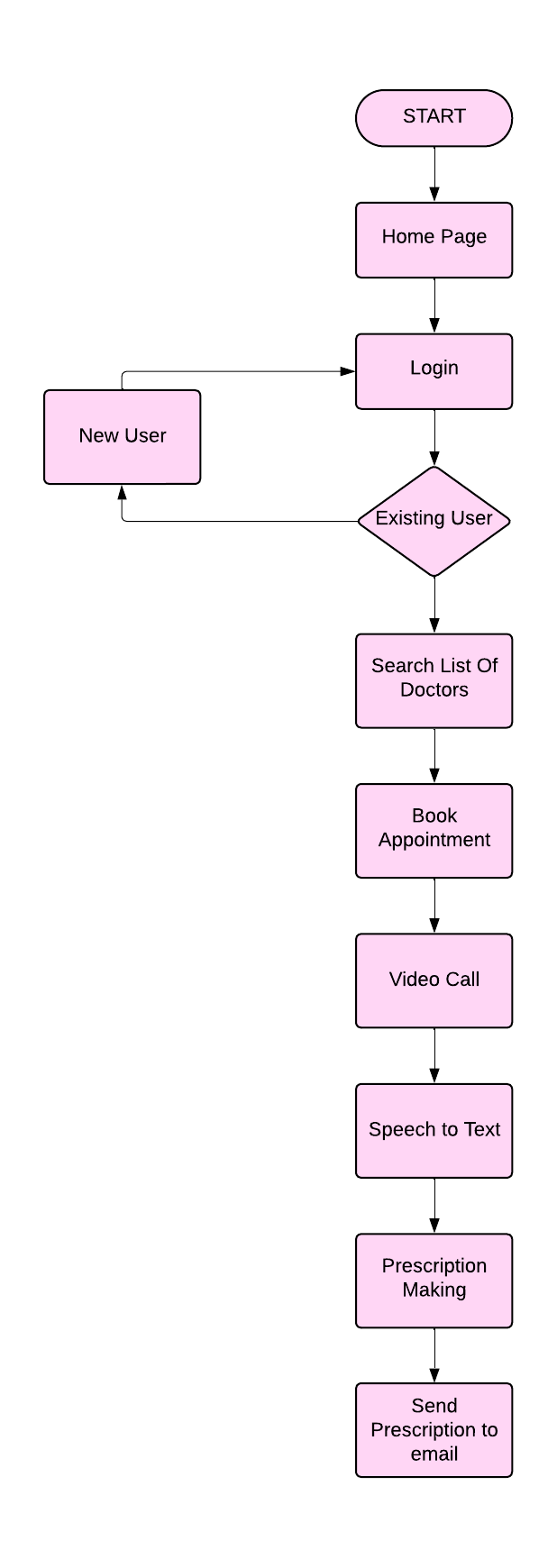
**6. Sending Verified Prescription to Patients**

The final step involves sending the verified prescription to the patient via email, which can be achieved using the smtplib module.

Chapter 4

WORK FLOW

**4.1 WORK FLOW:**



**FIG4: Work Flow of Model**

A workflow that represents a virtual healthcare system begins with the home page. New users can sign up by providing essential details such as name, email, and password. After signing up, users can log in directly. Once logged in, users can search for doctors based on medical specialties, select a doctor from the search results, and choose a convenient date and time for the appointment. They finalize the booking by confirming the details.

At the scheduled time, users can interact with their doctors via video call, during which they can discuss their medical issues. Doctors suggest medications and provide advice during the call. The audio from the video call is recorded and converted into text. Keywords such as medication names, dosages, and durations are extracted to prepare a prescription. The doctor can review and edit the transcribed text or create a new prescription. The prescription includes specific dosage and usage instructions for each medication. After reviewing, the system sends the prescription to the patient via email in text format.

Users can purchase medicines through the web application by searching for the medication names, adding them to the cart, and completing the purchase. The medicines are delivered to the specified address. Additionally, users can set up medication reminders by entering the medicine name, dosage, and duration to receive timely SMS reminders, ensuring they do not miss their medication schedule.

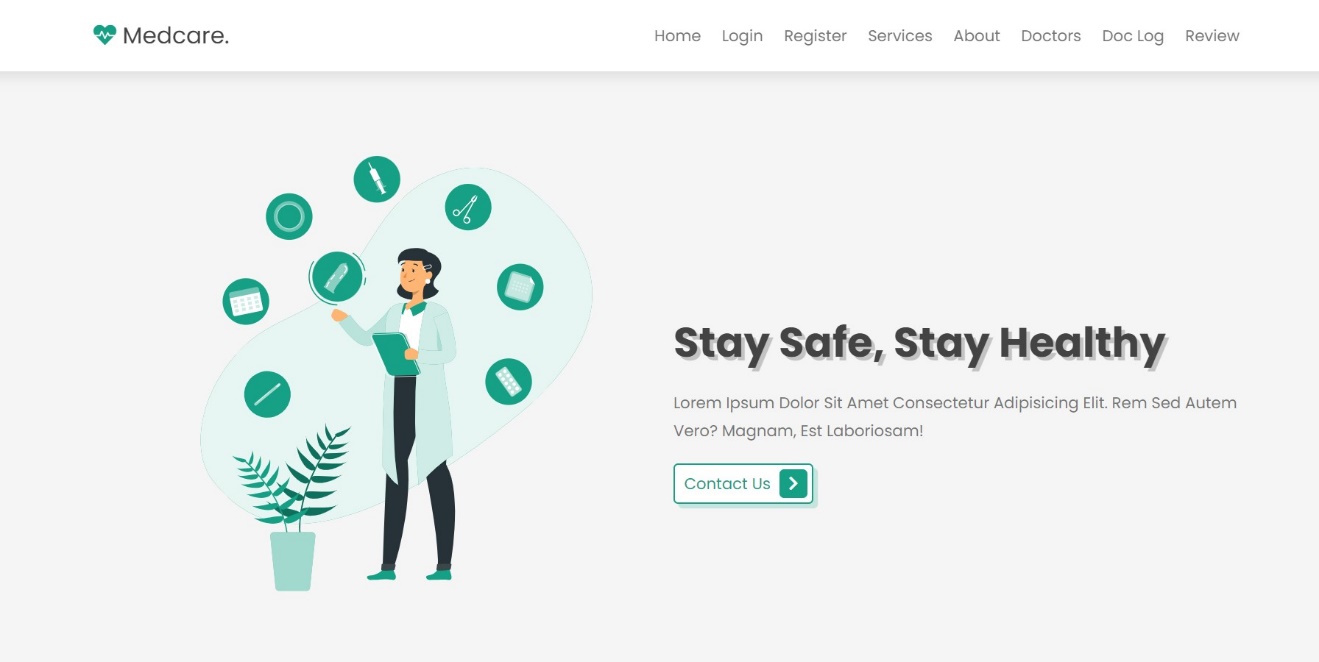
**CHAPTER 5**

**Results & Discussion**

**5. RESULTS AND DISCUSSION**

**5.1 Welcome Page**

The figure below illustrates the home page of the proposed web application.



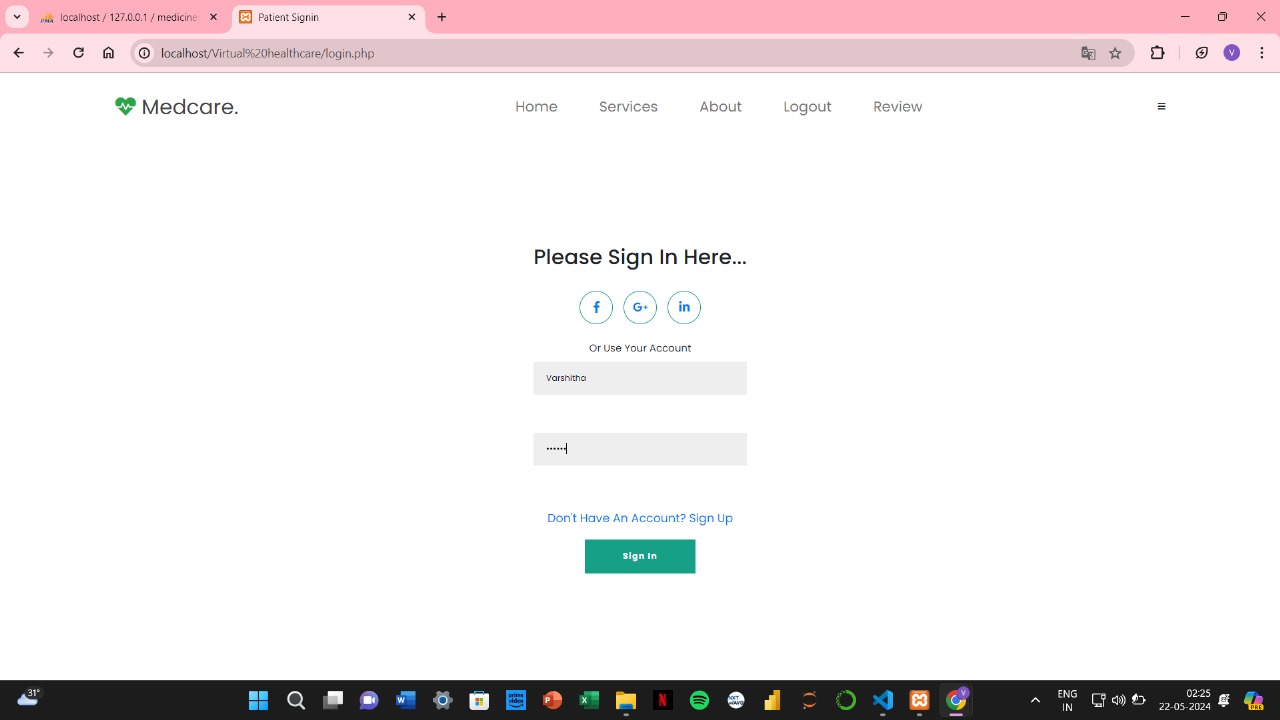
**FIG 5:** Welcome Page

**5.2 Registration page**

Users can access the web application by registering into the website. The registration process is same for all the doctors, patients and admins. They need to enter the correct details of themselves and need to click submit button. Once registered, they can directly log in into the website and can access the web application.

**5.3 Login Page**

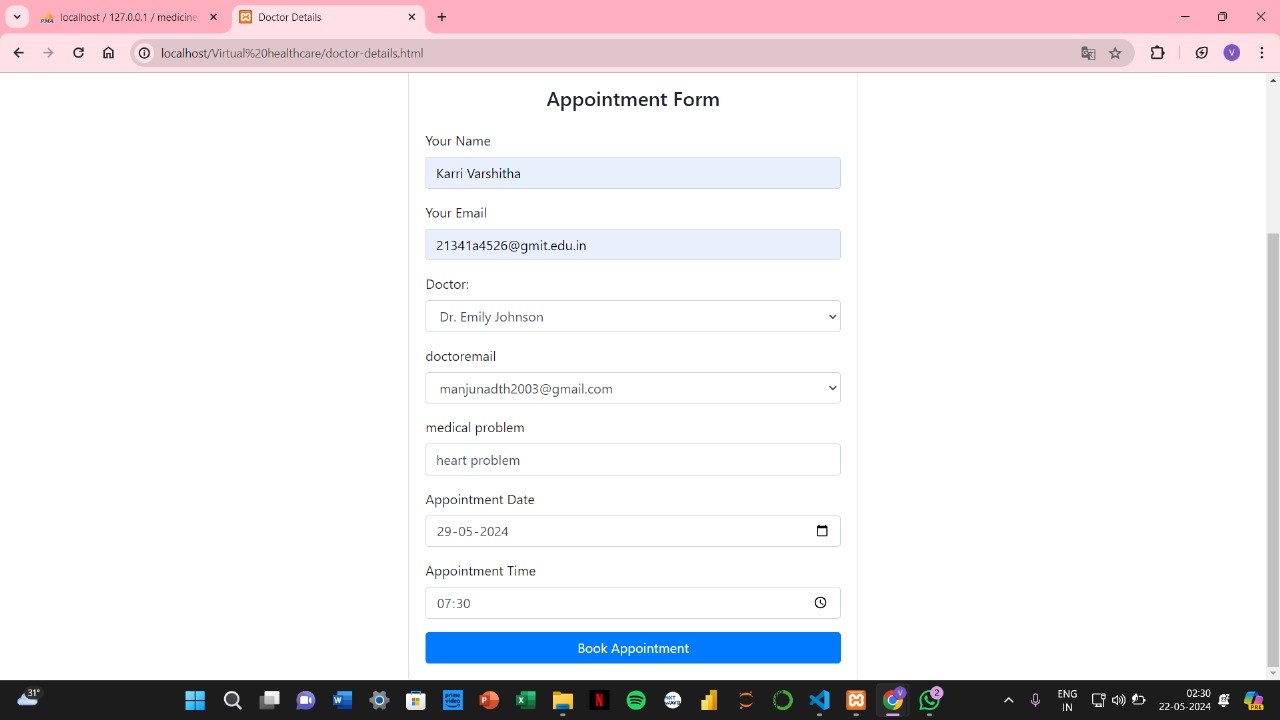
Users can access the telemedicine service through the application's user interface. If they enter an incorrect username or password, the login process will fail. The system also offers an option to reset a forgotten password. To do this, users must provide certain information to validate their registration. If the information matches, they can change their password and log in to the user interface.



**FIG 6:** Login Page

**5.4 Appointment Booking**

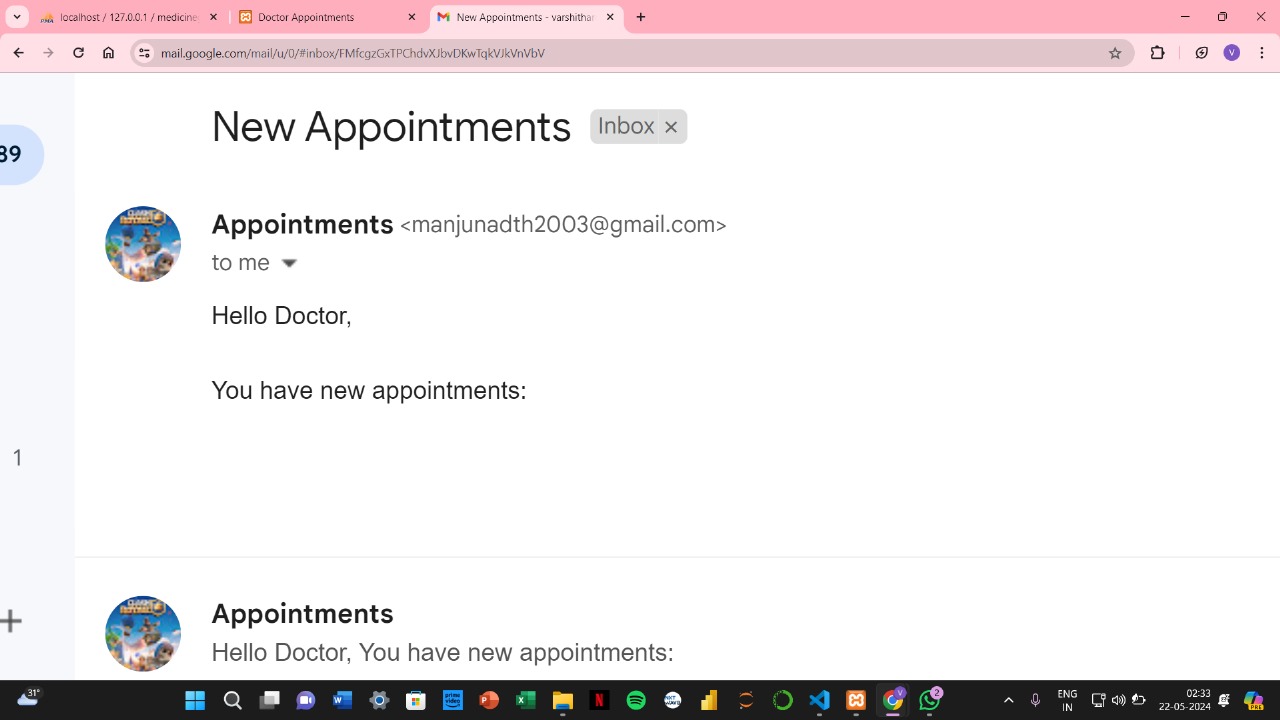
Patients can interact with the doctors by booking an appointment. Patients can fill their details and can search for doctors based on various criteria such as specialty. The platform displays available dates and times for each doctor. Patients can choose an available time slot that suits their schedule and can confirm the appointment by clicking on the desired time slot and providing any additional information or notes for the doctor. Once booked, the patient receives an appointment confirmation via email or SMS.



**FIG 7:** Appointment Form

**5.5 Appointment Scheduler**

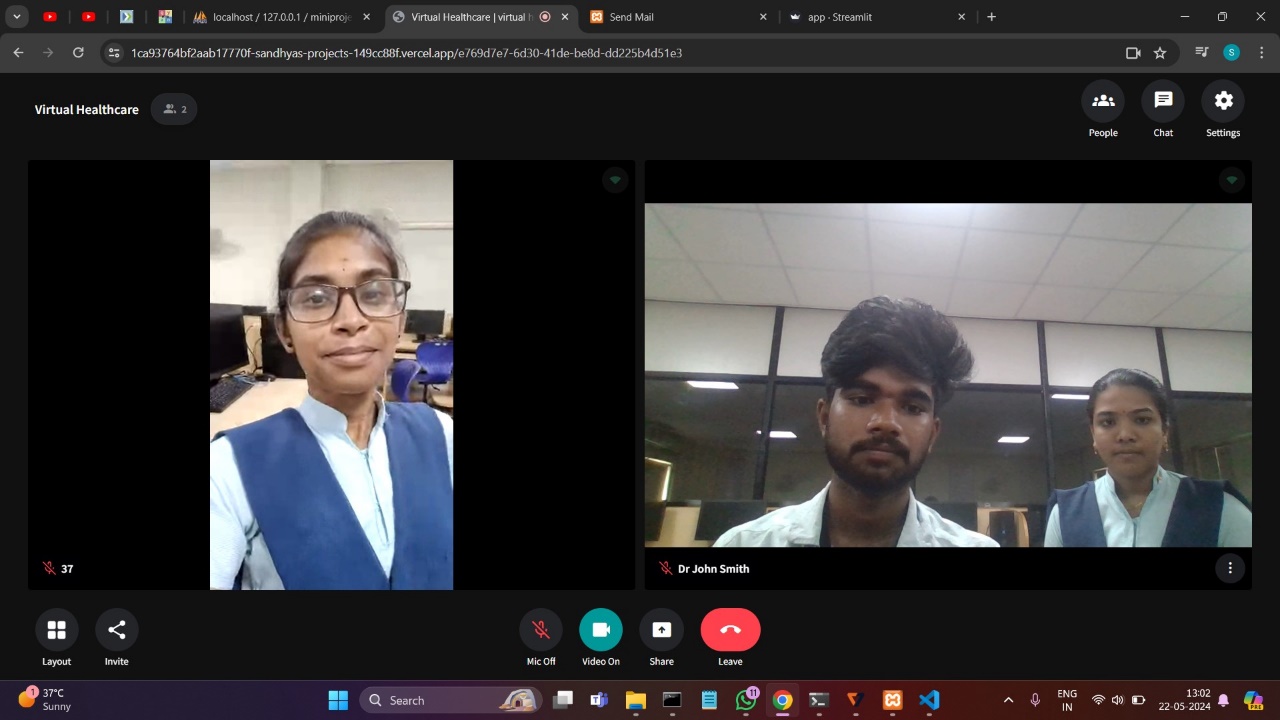
Patients mostly forgot about their appointments due to their busy schedules. So the appointment scheduler reminds patients about their appointments. The scheduler sends automated reminders to both parties to reduce no-shows and supports easy rescheduling and cancellations.



**FIG 8:** Appointment Scheduler

**5.6 Video calls**

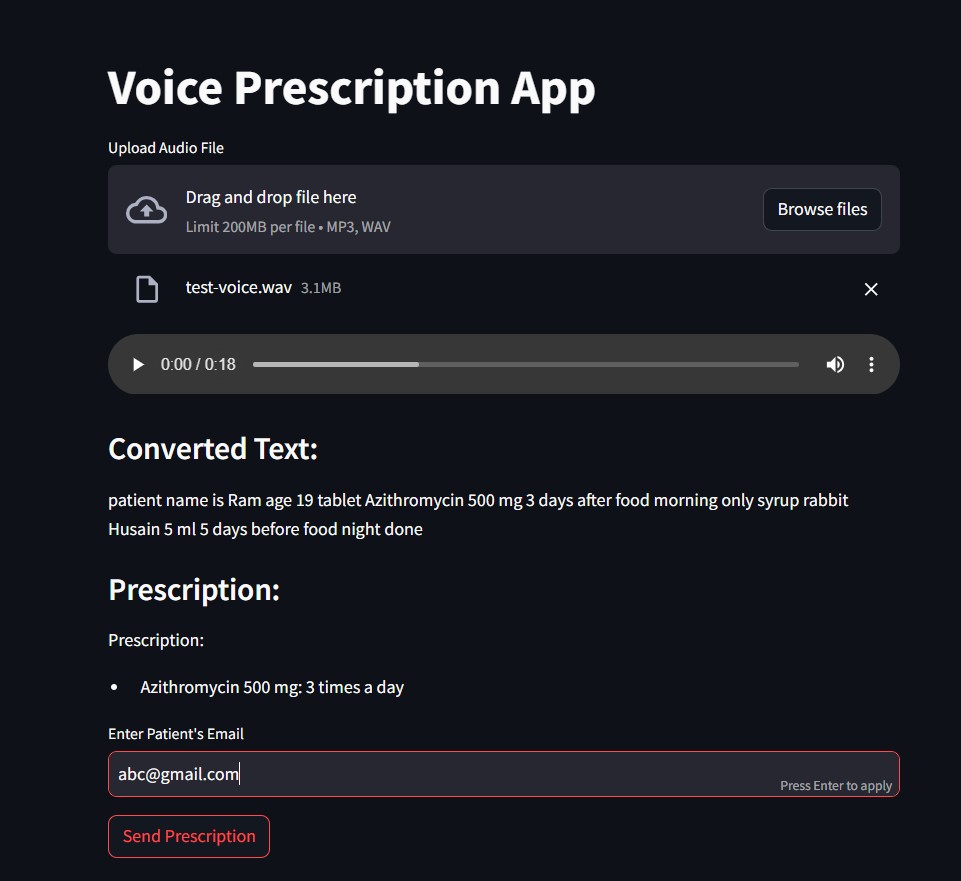
Patients can connect to the video calls on the appointed slot. Video calls in a telemedicine website facilitate remote consultations between patients and healthcare providers, offering a convenient and efficient way to deliver medical care. The video call feature typically includes high-quality audio and video capabilities, ensuring clear communication between the patient and the healthcare provider. During the consultation, patients can discuss their symptoms, receive medical advice, and even show physical symptoms or conditions to the doctor through the video feed.



**FIG 9:** Video Call

**5.7 Prescription**

The proposed system offers a platform where doctors can orally dictate their prescriptions using speech recognition and natural language processing, eliminating the need for manual typing or writing. This approach saves time for both doctors and patients and significantly reduces the likelihood of human errors. Doctors send the verified prescription to the patient via email, which can be achieved using the smtplib module.



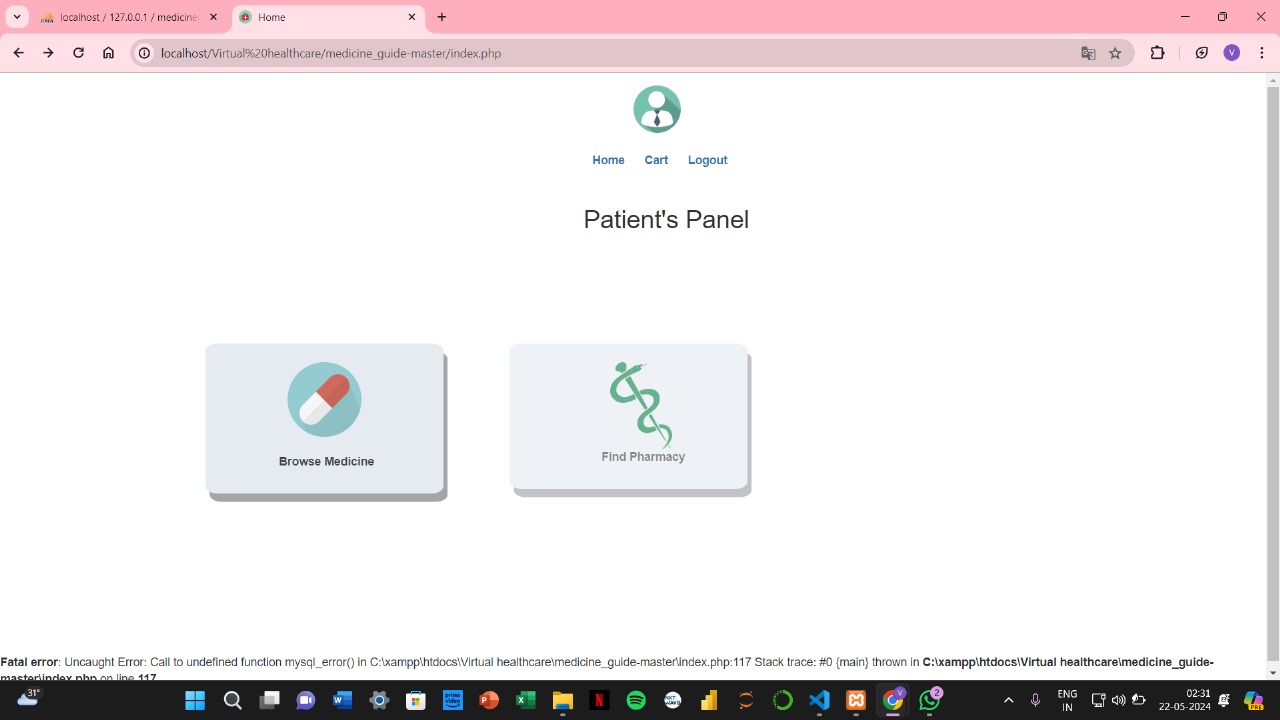
**FIG10:** Prescription

**5.8 Database**

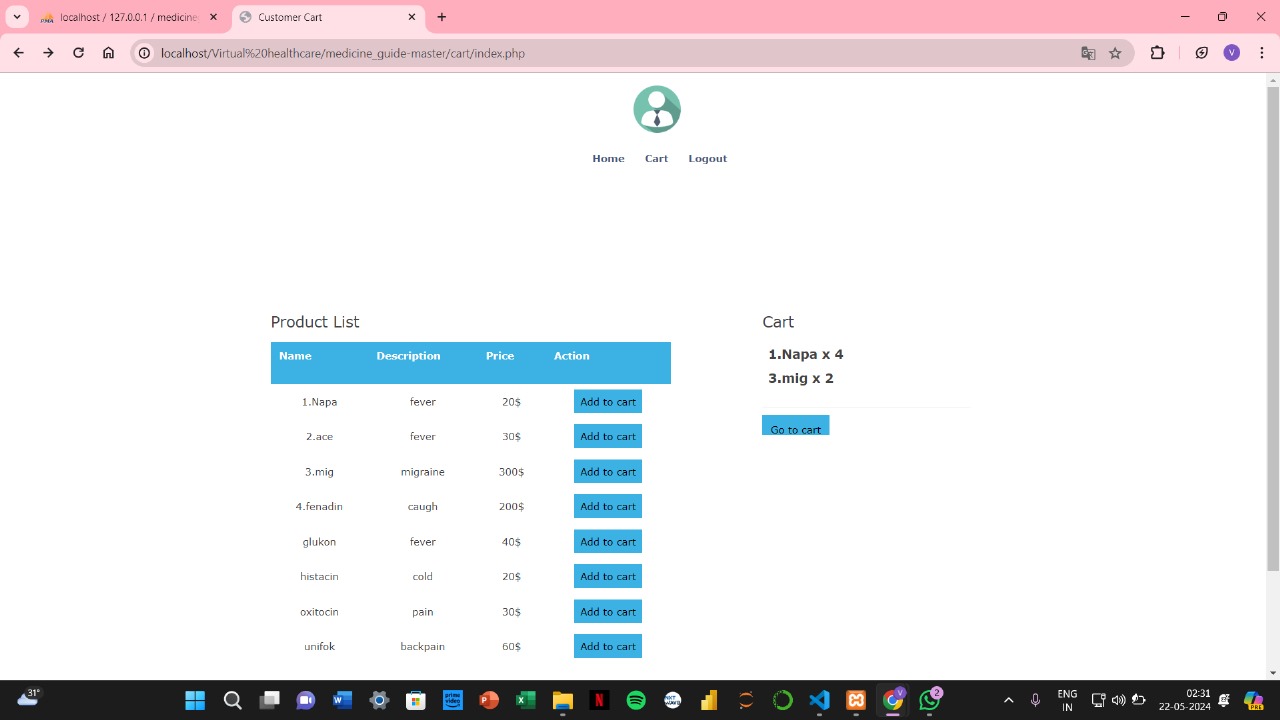
The web application is connected to a database that contains multiple tables for storing and managing data. Registered users can also view their activity history, which is essential for maintaining the database. Doctors can view the patient medical history information. The database has been developed using PHP My Admin and MySQL.

**5.9 Pharmacy**

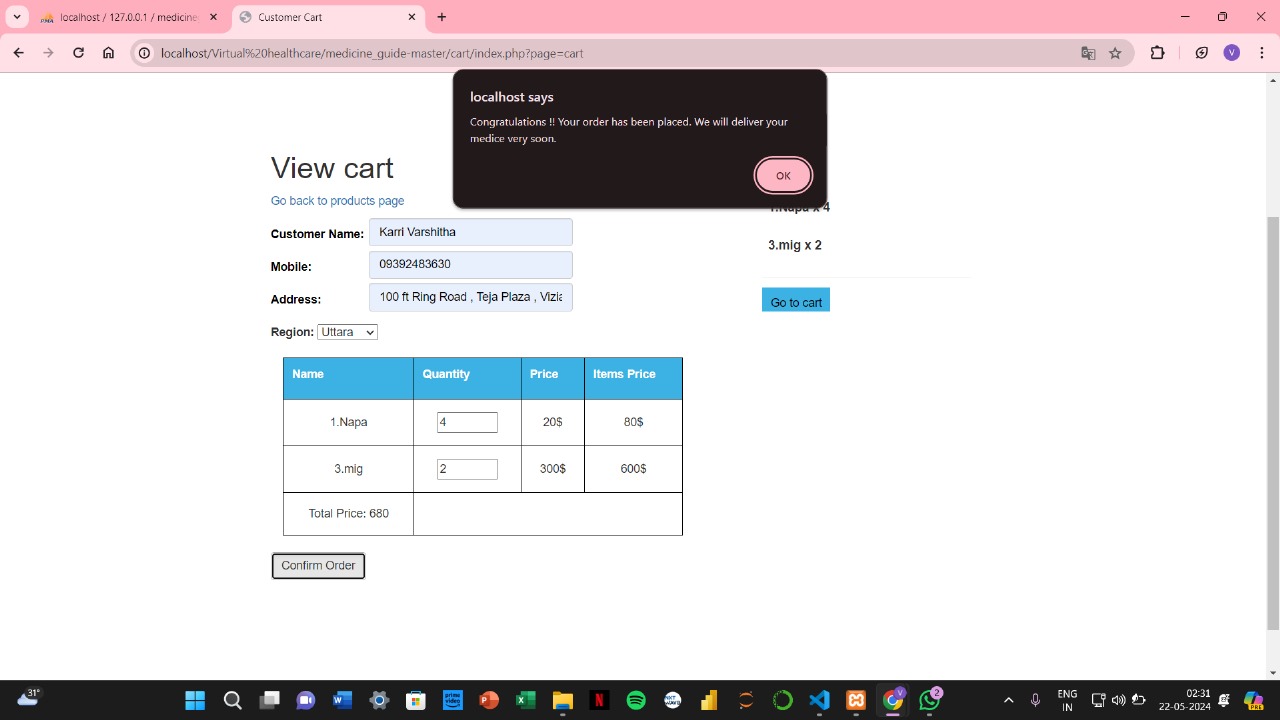
Users can purchase medicine through the web application. They can search for the medicines they need, add them to their cart, and complete the purchase. The application offers a variety of medicines, and the purchased items are delivered to the address provided by the user. This convenience eliminates the need to go out to buy products.



**FIG11:** Patient Panel



**FIG 12:** Products List



**FIG 13:** Product Cart

**CHAPTER 5**

**CONCLUSION**

**5. CONCLUSION**

In this research, we develop a virtual healthcare system which allows patients to connect with doctors and share their problems. By booking an appointment, people can interact with doctors and share their problems through videocall. The system facilitates easy access to qualified doctors, allowing patients to quickly receive prescriptions via video calls. With a user-friendly, fast, and reliable interface, patients can book consultations and obtain medical advice from the comfort of their homes. The system also stores the patient medical information in the database.

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**Code:**

**abc.php:**

<?php

session\_start();

// Check if doctor is logged in

if (!isset($\_SESSION['doctor\_username'])) {

    header("Location: doctor-login.php");

    exit;

}

// Database connection parameters

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "miniproject";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

    die("Connection failed: " . $conn->connect\_error);

}

// Get appointments for the logged-in doctor

$doctor\_username = $\_SESSION['doctor\_username'];

$doctor\_username = $\_SESSION['doctor\_username'];

$len = strlen($doctor\_username);

// Since indexing starts at 0, use $len - 1 to get the last character

$last\_char = $doctor\_username[$len - 1];

// Capitalize the last character

$capitalized\_last\_char = ucfirst($last\_char);

// If you want to replace the whole string with just the capitalized last character

$modified\_username = substr($doctor\_username, 0, $len - 1) . $capitalized\_last\_char;

$sentence = " you have entered your video conferencing portal&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;&emsp;";

$sql = "SELECT \* FROM appointments WHERE doctor='$doctor\_username'";

$result = $conn->query($sql);

?>

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Doctor Appointments</title>

    <link href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css" rel="stylesheet">

    <style>

h1 {

    margin: 0;

}

.button-container {

      gap: 10px; /\* Space between buttons \*/

      font-family: 'Montserrat', sans-serif;

      background: #f6f5f7;

      display: flex;

      flex-direction: column;

      justify-content: center;

      align-items: center;

      height: 50vh;

}

button {

    border-radius: 20px;

    border: 1px solid #16a085;

    background: #16a085;

    color: #fff;

    /\* font-weight: bold; \*/

    padding: 10px 20px;

    font-size: 16px;

    /\* font-size: 12px;

    padding: 12px 45px; \*/

    letter-spacing: 1px;

    text-transform: uppercase;

    transition: transform 80ms ease-in;

}

button:active {

    transform: scale(.95);

}

button:focus {

    outline: none;

}

button.ghost {

    background: transparent;

    border-color: #fff;

}

.navbar-brand img {

    max-width: 40px;

    margin-right: 10px;

}

.container {

    padding-top: 50px;

}

</style>

</head>

<body>

    <nav class="navbar navbar-expand-lg navbar-dark bg-dark">

        <div class="container">

            <!-- Doctor details -->

            <a class="navbar-brand" href="doctor-appointments.php">

                <img src="images\doc-2.jpg" alt="Doctor Profile Image">

                <?php echo $modified\_username.$sentence; ?>

            </a>

            <!-- <a href="abc.php" class="btn btn-outline-light">videocall</a> -->

            <!-- Send email button -->

            <a href="mailsend\mailsend\mailsend.php" class="btn btn-outline-light">Send Email</a>

        </div>

    </nav>

    <br><br>

    <div class="button-container">

      <button onclick="redirectToLink()">Click here to Start VIDEO CALL</button>

      <button onclick="redirectToLink2()">Click here to download audio File</button>

    </div>

    </div>

    <script>

      function redirectToLink() {

        window.location.href = 'https://1ca93764bf2aab17770f-sandhyas-projects-149cc88f.vercel.app/9b394f9f-cc76-4a3e-b31a-6348157acab5';

      }

    </script>

  </body>

</html>

**app.py:**

import streamlit as st

import speech\_recognition as sr

import re

from email.message import EmailMessage

import smtplib

# Function to convert audio to text

def convert\_audio\_to\_text(audio\_file):

    recognizer = sr.Recognizer()

    with sr.AudioFile(audio\_file) as source:

        audio\_data = recognizer.record(source)

        try:

            text = recognizer.recognize\_google(audio\_data)

            return text

        except sr.RequestError as e:

            st.error(f"Error: {e}")

            return None

# Function to extract keywords and prepare prescription

def prepare\_prescription(text):

    # Extract medicine names and timings using regex

    medicine\_pattern = r'tablet\s(\w+\s?\d+\s?\w\*)\s(\d+)\s(day|days)?\s(after|before)\s(food|meal)?\s(morning|noon|afternoon|evening|night)'

    medicines = re.findall(medicine\_pattern, text, re.IGNORECASE)

    # Prepare prescription format

    prescription = "Prescription:\n"

    for medicine in medicines:

        name = medicine[0]

        timing = f"{medicine[1]} times a day"

        prescription += f"- {name}: {timing}\n"

    return prescription

# Function to send prescription to patient's email

def send\_prescription\_to\_email(prescription, receiver\_email):

    # Update with your Gmail SMTP credentials and application-specific password

    sender\_email = "manjunadth2003@gmail.com"

    sender\_password = "fwky shzt nsmk duri"  # Update with your application-specific password

    msg = EmailMessage()

    msg["Subject"] = "Your Prescription"

    msg["From"] = sender\_email  # Update with your Gmail address

    msg["To"] = receiver\_email

    msg.set\_content(prescription)

    with smtplib.SMTP\_SSL("smtp.gmail.com", 465) as server:

        server.login(sender\_email, sender\_password)

        server.send\_message(msg)

    # Indicate success

    st.success("Prescription sent successfully!")

# Streamlit app

def main():

    st.title("Voice Prescription App")

    # File uploader for audio file

    audio\_file = st.file\_uploader("Upload Audio File", type=["mp3", "wav"])

    if audio\_file:

        st.audio(audio\_file, format="audio/wav")

        # Convert audio to text

        text = convert\_audio\_to\_text(audio\_file)

        # Display converted text

        st.subheader("Converted Text:")

        st.write(text)

        # Extract keywords and prepare prescription

        prescription = prepare\_prescription(text)

        # Display prescription for verification and correction

        st.subheader("Prescription:")

        st.write(prescription)

        # Input for patient's email

        receiver\_email = st.text\_input("varshithareddy186@gmail.com")

        # Button to send prescription

        if st.button("Send Prescription"):

            if receiver\_email:

                send\_prescription\_to\_email(prescription, receiver\_email)

                st.success("Prescription sent successfully!")

            else:

                st.error("Please enter the patient's email.")

if \_\_name\_\_ == "\_\_main\_\_":

    main()

**config.php:**

<?php

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "miniproject";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

    die("Connection failed: " . $conn->connect\_error);

}

?>

**doclogut.php:**

<?php

session\_start();

session\_unset();

session\_destroy();

header("location: doctor-login.php");

exit;

?>

**doctor-appointments.php:**

<?php

session\_start();

// Check if doctor is logged in

if (!isset($\_SESSION['doctor\_username'])) {

    header("Location: doctor-login.php");

    exit;

}

// Database connection parameters

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "miniproject";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

    die("Connection failed: " . $conn->connect\_error);

}

// Get appointments for the logged-in doctor

$doctor\_username = $\_SESSION['doctor\_username'];

$doctor\_username = $\_SESSION['doctor\_username'];

$len = strlen($doctor\_username);

// Since indexing starts at 0, use $len - 1 to get the last character

$last\_char = $doctor\_username[$len - 1];

// Capitalize the last character

$capitalized\_last\_char = ucfirst($last\_char);

// If you want to replace the whole string with just the capitalized last character

$modified\_username = substr($doctor\_username, 0, $len - 1) . $capitalized\_last\_char;

$sentence = "Hello ";

$hmm=" !";

$sql = "SELECT \* FROM appointments WHERE doctor='$doctor\_username'";

$result = $conn->query($sql);

?>

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Doctor Appointments</title>

    <link href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css" rel="stylesheet">

    <style>

        /\* Custom styles \*/

        .navbar-brand img {

            max-width: 40px;

            margin-right: 10px;

        }

        .container {

            padding-top: 50px;

        }

        table {

            width: 100%;

            border-collapse: collapse;

        }

        th, td {

            border: 1px solid #ddd;

            padding: 8px;

            text-align: left;

        }

        th {

            background-color: #f2f2f2;

        }

    </style>

</head>

<body>

    <!-- Navigation bar -->

    <nav class="navbar navbar-expand-lg navbar-dark bg-dark">

        <div class="container">

            <!-- Doctor details -->

            <a class="navbar-brand" href="doctor-appointments.php">

                <img src="images\doc-2.jpg" alt="Doctor Profile Image">

                <?php echo $sentence.$modified\_username.$hmm; ?>

            </a>

            <!-- Logout button -->

            <form class="form-inline ml-auto" action="doclogout.php" method="post">

                <button type="submit" class="btn btn-outline-light mr-2">Logout</button>

            </form>

            <a href="abc.php" class="btn btn-outline-light">videocall</a>

            <!-- Send email button -->

            <a href="mailsend\mailsend\mailsend.php" class="btn btn-outline-light">Send Email</a>

        </div>

    </nav>

    <!-- Main content -->

    <div class="container mt-5">

        <!-- Doctor details -->

        <h2>Doctor Details</h2>

        <!-- Display doctor details here -->

        <!-- Appointments table -->

        <h2 class="mt-5">Appointments</h2>

        <?php if ($result->num\_rows > 0) : ?>

            <table class="table">

                <thead>

                    <tr>

                        <th>Name</th>

                        <th>Email</th>

                        <th>Doctor</th>

                        <th>medical\_problem</th>

                        <th>Appointment Date</th>

                        <th>Appointment Time</th>

                    </tr>

                </thead>

                <tbody>

                    <?php while($row = $result->fetch\_assoc()) : ?>

                        <tr>

                            <td><?php echo $row["name"]; ?></td>

                            <td><?php echo $row["email"]; ?></td>

                            <td><?php echo $row["doctor"]; ?></td>

                            <td><?php echo $row["medical\_problem"]; ?></td>

                            <td><?php echo $row["appointment\_date"]; ?></td>

                            <td><?php echo $row["appointment\_time"]; ?></td>

                        </tr>

                    <?php endwhile; ?>

                </tbody>

            </table>

        <?php else : ?>

            <p>No appointments found.</p>

        <?php endif; ?>

        <!-- Add appointment form -->

        <div>

        <form action="mailsend\mailsend\mail.php" method="post" enctype="multipart/form-data">

            <h2>Send email to patient</h2>

            <?php if (isset($\_GET['error'])) { ?>

                <p class="error"><?php echo $\_GET['error']; ?></p>

            <?php } ?>

            <?php if (isset($\_GET['success'])) { ?>

                <p class="success"><?php echo $\_GET['success']; ?></p>

            <?php } ?>

            <div class="form-group">

                <label for="name">Name</label>

                <input type="text" name="name" id="name" class="form-control" placeholder="Name">

            </div>

            <div class="form-group">

                <label for="uname">User Name</label>

                <input type="text" name="uname" id="uname" class="form-control" placeholder="User Name">

            </div>

            <div class="form-group">

                <label for="email">Email</label>

                <input type="email" name="email" id="email" class="form-control" placeholder="Email">

            </div>

            <div class="form-group">

                <label for="subject">Subject</label>

                <input type="text" name="subject" id="subject" class="form-control" placeholder="Subject">

            </div>

            <div class="form-group">

                <label for="message">Message</label>

                <textarea name="message" id="message" class="form-control" rows="5" placeholder="Message"></textarea>

            </div>

            <button type="submit" name="submit" class="btn btn-primary">Send</button>

        </form>

        </div>

    </div>

    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>

    <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.5.4/dist/umd/popper.min.js"></script>

    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>

</body>

</html>

**doctor-details.html:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Doctor Details</title>

    <link href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css" rel="stylesheet">

    <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-beta3/css/all.min.css" rel="stylesheet">

</head>

<body>

    <div class="container mt-5">

        <div class="row">

            <div class="col-md-6 mx-auto">

                <div class="card">

                    <div class="card-body">

                        <h3 class="card-title text-center mb-4">Appointment Details</h3>

                        <p><strong>Doctor:</strong> <span id="doctorName"></span></p>

                        <p><strong>Specialization:</strong> <span id="specialization"></span></p>

                        <p><strong>Email:</strong> <span id="docemail"></span></p>

                        <!-- Add more details about the doctor here -->

                        <hr>

                        <h4 class="card-title text-center mb-4">Appointment Form</h4>

                        <form action="submit-appointment.php" method="post">

                            <div class="form-group">

                                <label for="name">Your Name</label>

                                <input type="text" class="form-control" id="name" name="name" placeholder="Enter your name" required>

                            </div>

                            <div class="form-group">

                                <label for="email">Your Email</label>

                                <input type="email" class="form-control" id="email" name="email" placeholder="Enter your email" required>

                            </div>

                            <div class="form-group">

                                <label for="doctor">Doctor:</label>

                                 <select class="form-control" id="doctor" name="doctor" required>

                                    <option value="">Select your doctor</option>

                                     <option value="Dr. John Smith">Dr. John Smith</option>

                                     <option value="Dr. Emily Johnson"> Dr. Emily Johnson</option>

                                     <option value="Dr. Elon Musk"> Dr. Elon Musk</option>

                                 </select>

                            </div>

                            <div class="form-group">

                                <label for="docemail">doctoremail</label>

                                <select class="form-control" id="docemail" name="docemail" required>

                                    <option value="">enter doctor Email</option>

                                     <option value="manjunadth2003@gmail.com">manjunadth2003@gmail.com</option>

                                     <option value="varshithareddy186@gmail.com"> varshithareddy186@gmail.com</option>

                                 </select>

                            </div>

                            <div class="form-group">

                                <label for="medical\_problem">medical problem</label>

                                <input type="text" class="form-control" id="medical\_problem" name="medical\_problem" required>

                            </div>

                            <div class="form-group">

                                <label for="appointment\_date">Appointment Date</label>

                                <input type="date" class="form-control" id="appointment\_date" name="appointment\_date" required>

                            </div>

                            <div class="form-group">

                                <label for="appointment\_time">Appointment Time</label>

                                <input type="time" class="form-control" id="appointment\_time" name="appointment\_time" required>

                            </div>

                            <button type="submit" class="btn btn-primary btn-block">Book Appointment</button>

                        </form>

                    </div>

                </div>

            </div>

            </div>

        </div>

    </div>

    <script>

        // Retrieve selected doctor and specialization from localStorage

        var selectedDoctor = localStorage.getItem('selectedDoctor');

        var selectedSpecialization = localStorage.getItem('selectedSpecialization');

        var selecteddocEmail = localStorage.getItem('selecteddocEmail');

        // Display selected doctor details

        document.getElementById('doctorName').innerText = selectedDoctor;

        document.getElementById('specialization').innerText = selectedSpecialization;

        document.getElementById('docemail').innerText = selecteddocEmail;

        // Set hidden input values for doctor name and specialization

        document.getElementById('doctorNameInput').value = selectedDoctor;

        document.getElementById('specializationInput').value = selectedSpecialization;

        document.getElementById('docemailInput').value = selecteddocEmail;

    </script>

    <script src="js/script.js"></script>

</body>

</html>

**doctor-login-action.php:**

<?php

session\_start();

// Database connection parameters

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "miniproject";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

    die("Connection failed: " . $conn->connect\_error);

}

// Get form data

$username = $\_POST['username'];

$password = $\_POST['password'];

// Validate doctor credentials

$sql = "SELECT \* FROM doctors WHERE username='$username' AND password='$password'";

$result = $conn->query($sql);

if ($result->num\_rows == 1) {

    $\_SESSION['doctor\_username'] = $username;

    header("Location: doctor-appointments.php");

} else {

    echo "Invalid username or password";

}

$conn->close();

?>

**doctor-login.php:**

<!DOCTYPE html>

<html lang="en">

<head>

<link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-beta3/css/all.min.css" rel="stylesheet">

    <link rel="stylesheet" href="css/login.css">

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Patient Signin</title>

    <link href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css" rel="stylesheet">

    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.8.1/css/all.css" integrity="sha384-50oBUHEmvpQ+1lW4y57PTFmhCaXp0ML5d60M1M7uH2+nqUivzIebhndOJK28anvf" crossorigin="anonymous">

</head>

<header class="header">

    <a href="index.html" class="logo"> <i class="fas fa-heartbeat"></i> medcare. </a>

    <nav class="navbar">

        <a href="index.html">home</a>

        <a href="#services">services</a>

        <a href="#about">about</a>

        <a href="doclogout.php">logout</a>

        <a href="#review">review</a>

    </nav>

    <div id="menu-btn" class="fas fa-bars"></div>

</header>

<body>

<div class="form-container">

    <form action="doctor-login-action.php" method="post">

        <h1>Doctor Please Login !!!</h1>

        <div class="social-container">

            <a href="#" class="social"><i class="fab fa-facebook-f"></i></a>

            <a href="#" class="social"><i class="fab fa-google-plus-g"></i></a>

            <a href="#" class="social"><i class="fab fa-linkedin-in"></i></a>

        </div>

        <!-- <span>or use your account</span> -->

        <input type="text" placeholder="username" name="username" required><br><br>

        <input type="password" placeholder="password" name="password" required><br><br>

        <button type="submit" value="Login">Sign In</button>

    </form>

</body>

</html>

**doctor-signup-action.php:**

<?php

// Database connection parameters

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "miniproject";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

    die("Connection failed: " . $conn->connect\_error);

}

// Get form data

$username = $\_POST['username'];

$docemail = $\_POST['docemail'];

$password = $\_POST['password'];

// Insert doctor into database

$sql = "INSERT INTO doctors (username,docemail, password) VALUES ('$username','$docemail', '$password')";

if ($conn->query($sql) === TRUE) {

    echo "Doctor signed up successfully";

} else {

    echo "Error: " . $sql . "<br>" . $conn->error;

}

$conn->close();

?>

**doctor-signup.php:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Doctor Sign Up</title>

    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.8.1/css/all.css"

        integrity="sha384-50oBUHEmvpQ+1lW4y57PTFmhCaXp0ML5d60M1M7uH2+nqUivzIebhndOJK28anvf" crossorigin="anonymous">

    <link rel="stylesheet" href="css/login.css">

</head>

<body>

<div class="container" id="container">

    <div class="form-container">

    <h2>Doctor Sign Up</h2>

    <form action="doctor-signup-action.php" method="post">

        <input type="text" placeholder="username" name="username" required><br><br>

        <input type="email" placeholder="email" name="docemail" required><br><br>

        <input type="password" placeholder="password" name="password" required><br><br>

        <input type="submit" value="Sign Up">

    </form>

</body>

</html>

**index.html:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Hospital Website </title>

    <!-- font awesome cdn link  -->

    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.4/css/all.min.css">

    <!-- custom css file link  -->

    <link rel="stylesheet" href="css/style.css">

</head>

<body>

    <?php if(isset($message)){

        foreach($message as $message){

            echo '

            <div class="message" style="

               position: sticky;

               top: 0;

               z-index: 1100;

               background: var(--green);

               padding: 2rem;

               display: flex;

               align-items: center;

               justify-content: space-between;

               gap: 1.5rem;

               max-width: 1200px;

               margin: 0 auto;">

               <span style="color: #fff;

               font-size: 2rem;">'.$message.'</span>

               <i class="fas fa-times" style="font-size: 2.5rem;

               color: #fff;

               cursor: pointer;" onclick="this.parentElement.remove();"></i>

            </div>

            ';

        }

     }

   ?>

<!-- header section starts  -->

<header class="header">

    <a href="#" class="logo"> <i class="fas fa-heartbeat"></i> medcare. </a>

    <nav class="navbar">

        <a href="index.html">home</a>

        <a href="login.php">Patient SignIn</a>

        <a href="signup.php">Patient SignUp</a>

        <a href="#services">services</a>

        <a href="#about">about</a>

        <a href="#doctors">doctors</a>

        <a href="doctor-login.php">Doctor SignIn</a>

        <a href="#review">review</a>

    </nav>

    <div id="menu-btn" class="fas fa-bars"></div>

</header>

<!-- header section ends -->

<!-- home section starts  -->

<section class="home" id="home">

    <div class="image">

        <img src="images/home-img.svg" alt="">

    </div>

    <div class="content">

        <h3>stay safe, stay healthy</h3>

        <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Rem sed autem vero? Magnam, est laboriosam!</p>

        <a href="#" class="btn"> contact us <span class="fas fa-chevron-right"></span> </a>

    </div>

</section>

<!-- home section ends -->

<!-- icons section starts  -->

<section class="icons-container">

    <div class="icons">

        <i class="fas fa-user-md"></i>

        <h3>140+</h3>

        <p>doctors at work</p>

    </div>

    <div class="icons">

        <i class="fas fa-users"></i>

        <h3>1040+</h3>

        <p>satisfied patients</p>

    </div>

    <div class="icons">

        <i class="fas fa-hospital"></i>

        <h3>80+</h3>

        <p>available hospitals</p>

    </div>

</section>

<!-- icons section ends -->

<!-- services section starts  -->

<section class="services" id="services">

    <h1 class="heading"> our <span>services</span> </h1>

    <div class="box-container">

        <div class="box">

            <i class="fas fa-user-md"></i>

            <h3>expert doctors</h3>

            <p>Lorem ipsum dolor sit amet consectetur, adipisicing elit. Ad, omnis.</p>

            <a href="#" class="btn"> learn more <span class="fas fa-chevron-right"></span> </a>

        </div>

        <div class="box">

            <i class="fas fa-pills"></i>

            <h3>medicines</h3>

            <p>Lorem ipsum dolor sit amet consectetur, adipisicing elit. Ad, omnis.</p>

            <a href="medicine\_guide-master\medicine\_guide-master\index.php" class="btn"> learn more <span class="fas fa-chevron-right"></span> </a>

        </div>

    </div>

</section>

<!-- services section ends -->

<!-- about section starts  -->

<section class="about" id="about">

    <h1 class="heading"> <span>about</span> us </h1>

    <div class="row">

        <div class="image">

            <img src="images/about-img.svg" alt="">

        </div>

        <div class="content">

            <h3>we take care of your healthy life</h3>

            <p>Lorem ipsum dolor sit amet consectetur, adipisicing elit. Iure ducimus, quod ex cupiditate ullam in assumenda maiores et culpa odit tempora ipsam qui, quisquam quis facere iste fuga, minus nesciunt.</p>

            <p>Lorem ipsum dolor, sit amet consectetur adipisicing elit. Natus vero ipsam laborum porro voluptates voluptatibus a nihil temporibus deserunt vel?</p>

            <a href="#" class="btn"> learn more <span class="fas fa-chevron-right"></span> </a>

        </div>

    </div>

</section>

<!-- about section ends -->

<!-- doctors section starts  -->

<section class="doctors" id="doctors">

    <h1 class="heading"> our <span>doctors</span> </h1>

    <div class="box-container">

        <div class="box">

            <img src="images/doc-1.jpg" alt="">

            <h3>mrs. doctor</h3>

            <span>expert doctor</span>

            <div class="share">

                <a href="#" class="fab fa-facebook-f"></a>

                <a href="#" class="fab fa-twitter"></a>

                <a href="#" class="fab fa-instagram"></a>

                <a href="#" class="fab fa-linkedin"></a>

            </div>

        </div>

        <div class="box">

            <img src="images/doc-2.jpg" alt="">

            <h3>mr. doctor</h3>

            <span>expert doctor</span>

            <div class="share">

                <a href="#" class="fab fa-facebook-f"></a>

                <a href="#" class="fab fa-twitter"></a>

                <a href="#" class="fab fa-instagram"></a>

                <a href="#" class="fab fa-linkedin"></a>

            </div>

        </div>

        <div class="box">

            <img src="images/doc-3.jpg" alt="">

            <h3>mr. doctor</h3>

            <span>expert doctor</span>

            <div class="share">

                <a href="#" class="fab fa-facebook-f"></a>

                <a href="#" class="fab fa-twitter"></a>

                <a href="#" class="fab fa-instagram"></a>

                <a href="#" class="fab fa-linkedin"></a>

            </div>

        </div>

        <div class="box">

            <img src="images/doc-4.jpg" alt="">

            <h3>mr. doctor</h3>

            <span>expert doctor</span>

            <div class="share">

                <a href="#" class="fab fa-facebook-f"></a>

                <a href="#" class="fab fa-twitter"></a>

                <a href="#" class="fab fa-instagram"></a>

                <a href="#" class="fab fa-linkedin"></a>

            </div>

        </div>

        <div class="box">

            <img src="images/doc-5.jpg" alt="">

            <h3>mr. doctor</h3>

            <span>expert doctor</span>

            <div class="share">

                <a href="#" class="fab fa-facebook-f"></a>

                <a href="#" class="fab fa-twitter"></a>

                <a href="#" class="fab fa-instagram"></a>

                <a href="#" class="fab fa-linkedin"></a>

            </div>

        </div>

        <div class="box">

            <img src="images/doc-6.jpg" alt="">

            <h3>mr. doctor</h3>

            <span>expert doctor</span>

            <div class="share">

                <a href="#" class="fab fa-facebook-f"></a>

                <a href="#" class="fab fa-twitter"></a>

                <a href="#" class="fab fa-instagram"></a>

                <a href="#" class="fab fa-linkedin"></a>

            </div>

        </div>

    </div>

</section>

<!-- review section starts  -->

<section class="review" id="review">

    <h1 class="heading"> client's <span>review</span> </h1>

    <div class="box-container">

        <div class="box">

            <img src="images/pic-1.png" alt="">

            <h3>john deo</h3>

            <div class="stars">

                <i class="fas fa-star"></i>

                <i class="fas fa-star"></i>

                <i class="fas fa-star"></i>

                <i class="fas fa-star"></i>

                <i class="fas fa-star-half-alt"></i>

            </div>

            <p class="text">Lorem ipsum dolor sit amet consectetur adipisicing elit. Laboriosam sapiente nihil aperiam? Repellat sequi nisi aliquid perspiciatis libero nobis rem numquam nesciunt alias sapiente minus voluptatem, reiciendis consequuntur optio dolorem!</p>

        </div>

        <div class="box">

            <img src="images/pic-2.png" alt="">

            <h3>Alisa</h3>

            <div class="stars">

                <i class="fas fa-star"></i>

                <i class="fas fa-star"></i>

                <i class="fas fa-star"></i>

                <i class="fas fa-star"></i>

                <i class="fas fa-star-half-alt"></i>

            </div>

            <p class="text">Lorem ipsum dolor sit amet consectetur adipisicing elit. Laboriosam sapiente nihil aperiam? Repellat sequi nisi aliquid perspiciatis libero nobis rem numquam nesciunt alias sapiente minus voluptatem, reiciendis consequuntur optio dolorem!</p>

        </div>

        <div class="box">

            <img src="images/pic-3.png" alt="">

            <h3>alex clark</h3>

            <div class="stars">

                <i class="fas fa-star"></i>

                <i class="fas fa-star"></i>

                <i class="fas fa-star"></i>

                <i class="fas fa-star"></i>

                <i class="fas fa-star-half-alt"></i>

            </div>

            <p class="text">Lorem ipsum dolor sit amet consectetur adipisicing elit. Laboriosam sapiente nihil aperiam? Repellat sequi nisi aliquid perspiciatis libero nobis rem numquam nesciunt alias sapiente minus voluptatem, reiciendis consequuntur optio dolorem!</p>

        </div>

    </div>

</section>

<!-- review section ends -->

<!-- footer section starts  -->

<section class="footer">

    <div class="box-container">

        <div class="box">

            <h3>quick links</h3>

            <a href="#"> <i class="fas fa-chevron-right"></i> home </a>

            <a href="#"> <i class="fas fa-chevron-right"></i> services </a>

            <a href="#"> <i class="fas fa-chevron-right"></i> about </a>

            <a href="#"> <i class="fas fa-chevron-right"></i> doctors </a>

            <a href="#"> <i class="fas fa-chevron-right"></i> book </a>

            <a href="#"> <i class="fas fa-chevron-right"></i> review </a>

            <a href="#"> <i class="fas fa-chevron-right"></i> blogs </a>

        </div>

        <div class="box">

            <h3>our services</h3>

            <a href="#"> <i class="fas fa-chevron-right"></i> dental care </a>

            <a href="#"> <i class="fas fa-chevron-right"></i> message therapy </a>

            <a href="#"> <i class="fas fa-chevron-right"></i> cardioloty </a>

            <a href="#"> <i class="fas fa-chevron-right"></i> diagnosis </a>

            <a href="#"> <i class="fas fa-chevron-right"></i> ambulance service </a>

        </div>

        <div class="box">

            <h3>contact info</h3>

            <a href="#"> <i class="fas fa-phone"></i> +998770157316 </a>

            <a href="https://mail.google.com/"> <i class="fas fa-envelope"></i> yahyobek7316@gmail.com </a>

            <a href="#"> <i class="fas fa-map-marker-alt"></i> fergana, uzbekistan - 103103 </a>

        </div>

        <div class="box">

            <h3>follow us</h3>

            <a href="#"> <i class="fab fa-facebook-f"></i> facebook </a>

            <a href="#"> <i class="fab fa-youtube"></i> you tube </a>

            <a href="#"> <i class="fab fa-twitter"></i> twitter </a>

            <a href="#"> <i class="fab fa-instagram"></i> instagram </a>

            <a href="https://t.me/Dasturchi1111"> <i class="fab fa-telegram"></i> telegram </a>

            <a href="#"> <i class="fab fa-pinterest"></i> pinterest </a>

        </div>

    </div>

    <div class="credit"> created by <span>mr. web developer</span> | all rights reserved </div>

</section>

<!-- footer section ends -->

<!-- custom js file link  -->

<script src="js/script.js"></script>

</body>

</html>

**login.php:**

<?php

include 'config.php';

session\_start();

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

    $username = $\_POST['username'];

    $password = $\_POST['password'];

    $sql = "SELECT \* FROM users WHERE username='$username'";

    $result = $conn->query($sql);

    if ($result->num\_rows > 0) {

        $row = $result->fetch\_assoc();

        if (password\_verify($password, $row['password'])) {

            $\_SESSION['username'] = $username;

            header("Location:welcome.html");

        } else {

            echo "Invalid password";

        }

    } else {

        echo "User not found";

    }

}

$conn->close();

?>

<!DOCTYPE html>

<html lang="en">

<head>

    <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-beta3/css/all.min.css" rel="stylesheet">

    <link rel="stylesheet" href="css/login.css">

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Patient Signin</title>

    <link href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css" rel="stylesheet">

    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.8.1/css/all.css" integrity="sha384-50oBUHEmvpQ+1lW4y57PTFmhCaXp0ML5d60M1M7uH2+nqUivzIebhndOJK28anvf" crossorigin="anonymous">

</head>

<header class="header">

    <a href="index.html" class="logo"> <i class="fas fa-heartbeat"></i> medcare. </a>

    <nav class="navbar">

        <a href="index.html">home</a>

        <a href="#services">services</a>

        <a href="#about">about</a>

        <a href="index.html">logout</a>

        <a href="#review">review</a>

    </nav>

    <div id="menu-btn" class="fas fa-bars"></div>

</header>

<body>

        <div class="form-container">

            <form method="post" action="<?php echo htmlspecialchars($\_SERVER["PHP\_SELF"]); ?>">

                <h1>Please Sign in here...</h1>

                <div class="social-container">

                    <a href="#" class="social"><i class="fab fa-facebook-f"></i></a>

                    <a href="#" class="social"><i class="fab fa-google-plus-g"></i></a>

                    <a href="#" class="social"><i class="fab fa-linkedin-in"></i></a>

                </div>

                <span>or use your account</span>

                <input type="text" placeholder="Email" name="username" required><br><br>

                <input type="password" placeholder="Password" name="password" required><br><br>

                <a href="signup.php">Don't have an account? Sign Up</a>

                <button type="submit" value="Login">Sign In</button>

            </form>

        </div>

</body>

</html>

**logout.php:**

<?php

session\_start();

session\_unset();

session\_destroy();

header("Location: welcome.html");

exit;

?>

**meditimer.py:**

import streamlit as st

import speech\_recognition as sr

import re

from email.message import EmailMessage

import smtplib

# Function to convert audio to text

def convert\_audio\_to\_text(audio\_file):

    recognizer = sr.Recognizer()

    with sr.AudioFile(audio\_file) as source:

        audio\_data = recognizer.record(source)

        text = recognizer.recognize\_google(audio\_data)

    return text

# Function to extract keywords and prepare prescription

# Function to extract keywords and prepare prescription

def prepare\_prescription(text):

    # Extract keywords (e.g., medicine names and timings) using regex or NLP techniques

    medicine\_info = re.findall(r'tablet (\w+ \d+ mg) (\d+ days) after food morning only|syrup (\w+) (\d+ ml) (\d+ days) before food night', text)

    # Prepare prescription format

    prescription = "Prescription:\n"

    if len(medicine\_info) > 0:

        for info in medicine\_info:

            if info[0]:  # If tablet information is found

                prescription += f"- {info[0]}: {info[1]} times a day\n"

            elif info[2]:  # If syrup information is found

                prescription += f"- {info[2]}: {info[3]} ml, {info[4]} times a day\n"

    else:

        prescription += "No medication information found.\n"

    return prescription

# Function to send prescription to patient's email

def send\_prescription\_to\_email(prescription, receiver\_email):

    # Update with your Gmail SMTP credentials and application-specific password

    sender\_email = "bodemvinay@gmail.com"

    sender\_password = "brjw udhq sced uwbf"  # Update with your application-specific password

    msg = EmailMessage()

    msg["Subject"] = "Your Prescription"

    msg["From"] = sender\_email  # Update with your Gmail address

    msg["To"] = receiver\_email

    msg.set\_content(prescription)

    with smtplib.SMTP\_SSL("smtp.gmail.com", 465) as server:

        server.login(sender\_email, sender\_password)

        server.send\_message(msg)

    # Indicate success

    st.success("Prescription sent successfully!")

    # Indicate success

    st.success("Prescription sent successfully!")

# Streamlit app

def main():

    st.title("Voice Prescription App")

    # File uploader for audio file

    audio\_file = st.file\_uploader("Upload Audio File", type=["mp3", "wav"])

    if audio\_file:

        st.audio(audio\_file, format="audio/wav")

        # Convert audio to text

        text = convert\_audio\_to\_text(audio\_file)

        # Display converted text

        st.subheader("Converted Text:")

        st.write(text)

        # Extract keywords and prepare prescription

        prescription = prepare\_prescription(text)

        # Display prescription for verification and correction

        st.subheader("Prescription:")

        st.write(prescription)

        # Input for patient's email

        receiver\_email = st.text\_input("Enter Patient's Email")

        # Button to send prescription

        if st.button("Send Prescription"):

            if receiver\_email:

                send\_prescription\_to\_email(prescription, receiver\_email)

                st.success("Prescription sent successfully!")

            else:

                st.error("Please enter the patient's email.")

if \_\_name\_\_ == "\_\_main\_\_":

    main()

**signup.php:**

<?php

include 'config.php';

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

    $username = $\_POST['username'];

    $email = $\_POST['email'];

    $password = password\_hash($\_POST['password'], PASSWORD\_DEFAULT);

    $sql = "INSERT INTO users (username, email, password) VALUES ('$username', '$email', '$password')";

    if ($conn->query($sql) === TRUE) {

        echo "New record created successfully";

    } else {

        echo "Error: " . $sql . "<br>" . $conn->error;

    }

}

$conn->close();

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-beta3/css/all.min.css" rel="stylesheet">

    <link rel="stylesheet" href="css/login.css">

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Patient SignUP</title>

    <link href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css" rel="stylesheet">

    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.8.1/css/all.css" integrity="sha384-50oBUHEmvpQ+1lW4y57PTFmhCaXp0ML5d60M1M7uH2+nqUivzIebhndOJK28anvf" crossorigin="anonymous">

</head>

<header class="header">

    <a href="index.html" class="logo"> <i class="fas fa-heartbeat"></i> medcare. </a>

    <nav class="navbar">

        <a href="index.html">home</a>

        <a href="#services">services</a>

        <a href="#about">about</a>

        <a href="index.html">logout</a>

        <a href="#review">review</a>

    </nav>

    <div id="menu-btn" class="fas fa-bars"></div>

</header>

<body>

<div class="form-container" id="container">

        <div class="form-container">

            <form method="post" action="<?php echo htmlspecialchars($\_SERVER["PHP\_SELF"]); ?>">

                <h1>Hello to consult a doctor you must create an acount HERE!!!</h1>

                <div class="social-container">

                    <a href="#" class="social"><i class="fab fa-facebook-f"></i></a>

                    <a href="#" class="social"><i class="fab fa-google-plus-g"></i></a>

                    <a href="#" class="social"><i class="fab fa-linkedin-in"></i></a>

                </div>

                <input type="text" placeholder="Name" name="username" required><br><br>

                <input type="email" placeholder="Email" name="email" required><br><br>

                <input type="password" placeholder="Password"name="password" required><br><br>

                <button type="submit" value="Sign Up">SignUp</button>

            </form>

        </div>

</body>

</html>

**submit-appointment.php:**

<?php

// Establish connection to MySQL database

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "miniproject";

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

    die("Connection failed: " . $conn->connect\_error);

}

// Include PHPMailer autoload file

require 'mailsend\mailsend\PHPMailer\src\Exception.php';

require 'mailsend\mailsend\PHPMailer\src\PHPMailer.php';

require 'mailsend\mailsend\PHPMailer\src\SMTP.php';

use PHPMailer\PHPMailer\PHPMailer;

use PHPMailer\PHPMailer\Exception;

// Retrieve form data

$name = $\_POST['name'];

$email = $\_POST['email'];

$doctor = $\_POST['doctor']; // Assuming 'doctor' represents the doctor's name

$docemail = $\_POST['docemail'];

$medical\_problem = $\_POST['medical\_problem'];

$appointment\_date = $\_POST['appointment\_date'];

$appointment\_time = $\_POST['appointment\_time'];

$sql\_count = "SELECT COUNT(\*) AS count FROM appointments WHERE doctor='$doctor' AND docemail='$docemail' AND appointment\_date='$appointment\_date'";

$result\_count = $conn->query($sql\_count);

$row\_count = $result\_count->fetch\_assoc();

$count = $row\_count['count'];

$sql\_same\_time = "SELECT COUNT(\*) AS same\_time\_count FROM appointments WHERE doctor='$doctor' AND docemail='$docemail' AND appointment\_date='$appointment\_date' AND appointment\_time='$appointment\_time'";

$result\_same\_time = $conn->query($sql\_same\_time);

$row\_same\_time = $result\_same\_time->fetch\_assoc();

$same\_time\_count = $row\_same\_time['same\_time\_count'];

if ($same\_time\_count >= 1) {

    echo "<script>alert('Sorry, appointment for the same time has been booked by others. Please choose another time.');</script>";

}

else if ($count >= 5) {

    echo "<script>alert('Sorry, appointments for today are fully booked. Please choose another date.');</script>";

} else {

    // Prepare SQL statement to insert data into appointments table

    $sql = "INSERT INTO appointments (name, email, doctor, docemail, medical\_problem, appointment\_date, appointment\_time)

            VALUES ('$name', '$email', '$doctor', '$docemail', '$medical\_problem', '$appointment\_date', '$appointment\_time')";

    if ($conn->query($sql) === TRUE) {

        // Appointment successfully booked

        echo "<script>alert('Appointment booked successfully!');</script>";

        // Construct email notification message

        $message = "Hello Doctor,\n\nYou have new appointments:\n\n";

        // Send email notification

        $mail = new PHPMailer(true);

        try {

            //Server settings

            $mail->isSMTP();

            $mail->Host       = 'smtp.gmail.com';

            $mail->SMTPAuth   = true;

            $mail->Username   = 'manjunadth2003@gmail.com'; // Doctor's email

            $mail->Password   = 'fwky shzt nsmk duri'; // Doctor's email password

            $mail->SMTPSecure = 'ssl';

            $mail->Port       = 465;

            //Recipients

            $mail->setFrom('manjunadth2003@gmail.com', 'Appointments');

            $mail->addAddress($docemail); // Doctor's email

            // Content

            $mail->isHTML(false);

            $mail->Subject = 'New Appointments';

            $mail->Body    = $message;

            $mail->send();

            echo 'Email notification sent successfully!';

        } catch (Exception $e) {

            echo "Email notification could not be sent. Mailer Error: {$mail->ErrorInfo}";

        }

    } else {

        // Error occurred while booking appointment

        echo "Error: " . $sql . "<br>" . $conn->error;

    }

}

// Close database connection

$conn->close();

?>

**vc.html:**

<!doctype html>

<html lang="en">

  <head>

    <meta charset="utf-8"/>

    <meta name="viewport" content="width=device-width, initial-scale=1">

    <title>Getting Started Tutorial - Handling Events</title>

  </head>

  <body>

    <div>

        <button id="enableCamera">Enable Camera</button>

        <button id="disableCamera">Disable Camera</button>

        <button id="startRecording">Start Recording</button>

        <button id="stopRecording">Stop Recording</button>

        <input type="color" id="primaryColor" name="primaryColor" />

    </div>

    <script src="https://unpkg.com/@proficonf/iframe-api"></script>

    <script>

        const uiOptions = {

            removeElements: [

                'logo', 'meetingName', 'roomLocker', 'leaveButton',

                'recordingControl', 'streamingControl'

            ]

        };

        const api = new Proficonf({

            meetingUrl: 'https://1ca93764bf2aab17770f-sandhyas-projects-149cc88f.vercel.app/9b394f9f-cc76-4a3e-b31a-6348157acab5',

            user: {

                name: 'Tester'

            },

            ui: uiOptions

        });

        api.on('participantRoleChanged', (event) => {

            api.sendChatMessage(`${event.participant.name} is now a ${event.role}!`);

        });

        document.querySelector('#enableCamera').addEventListener('click', () => {

            api.enableCamera()

                .then(() => console.log('Everything OK!'))

                .catch((error) => alert(`Camera error: ${error.message}`));

        });

        document.querySelector('#disableCamera').addEventListener('click', () => {

            api.disableCamera();

        });

        document.querySelector('#startRecording').addEventListener('click', () => {

            api.startRecording();

        });

        document.querySelector('#stopRecording').addEventListener('click', () => {

            api.stopRecording();

        });

        document.querySelector('#primaryColor').addEventListener('change', (event) => {

            uiOptions.customPrimaryColor = event.target.value;

            api.updateUIConfig(uiOptions);

        });

        api.join();

    </script>

  </body>

</html>

**welcome.html:**

<!DOCTYPE html>

<html lang="en">

<head>

    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.4/css/all.min.css">

    <link rel="stylesheet" href="css/style.css">

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Doctor Appointment</title>

    <link href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css" rel="stylesheet">

    <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-beta3/css/all.min.css" rel="stylesheet">

    <style>

        /\* Custom styles \*/

        .doctor-card {

            cursor: pointer;

        }

        .doctor-card:hover {

            box-shadow: 0 0 15px rgba(0, 0, 0, 0.3);

        }

        body {

    padding-top: 80px; /\* Adjust the value as needed \*/

  }

    </style>

</head>

<header class="header">

    <a href="index.html" class="logo"> <i class="fas fa-heartbeat"></i> medcare. </a>

    <nav class="navbar">

        <a href="#home">home</a>

        <a href="#services">services</a>

        <a href="#about">about</a>

        <a href="medicine\_guide-master/index.php">Pharmacy</a>

        <!-- <a href="index.html">logout</a> -->

    </nav>

    <div id="menu-btn" class="fas fa-bars"></div>

</header>

<body>

    <div class="container mt-5 pt-5">

        <h1 class="text-center mb-5">Kindly Please Choose a Doctor</h1>

        <div class="row">

            <div class="col-md-4 mb-2">

                <div class="card doctor-card" onclick="selectDoctor('Dr. John Smith','Cardiologist','varshithareddy186@gmail.com')">

                    <div class="card-body text-center">

                        <img src="images/doc-2.jpg" alt="">

                        <h3></h3>

                        <!-- <span>expert doctor</span> -->

                        <div class="share">

                        <a href="#" class="fab fa-facebook-f"></a>

                        <a href="#" class="fab fa-twitter"></a>

                        <a href="#" class="fab fa-instagram"></a>

                        <a href="#" class="fab fa-linkedin"></a>

                        </div>

                        <h5 class="card-title">Dr. John Smith</h5>

                        <p class="card-text">Cardiologist</p>

                        <i class="fas fa-user-md fa-3x"></i>

                    </div>

                </div>

            </div>

            <div class="col-md-4 mb-4">

                <div class="card doctor-card" onclick="selectDoctor('Dr. Emily Johnson', 'Pediatrician', 'manjuandth2003@gmail.com')">

                    <div class="card-body text-center">

                        <img src="images/doc-1.jpg" alt="">

                        <h3></h3>

                        <!-- <span>expert doctor</span> -->

                        <div class="share">

                        <a href="#" class="fab fa-facebook-f"></a>

                        <a href="#" class="fab fa-twitter"></a>

                        <a href="#" class="fab fa-instagram"></a>

                        <a href="#" class="fab fa-linkedin"></a>

                        </div>

                        <h5 class="card-title">Dr. Emily Johnson</h5>

                        <p class="card-text">Gynecologist</p>

                        <i class="fas fa-user-md fa-3x"></i>

                    </div>

                </div>

            </div>

            <div class="col-md-4 mb-2">

                <div class="card doctor-card" onclick="selectDoctor('Dr. Elon Musk','Cardiologist','varshithareddy186@gmail.com')">

                    <div class="card-body text-center">

                        <img src="images/doc-3.jpg" alt="">

                        <h3></h3>

                        <!-- <span>expert doctor</span> -->

                        <div class="share">

                        <a href="#" class="fab fa-facebook-f"></a>

                        <a href="#" class="fab fa-twitter"></a>

                        <a href="#" class="fab fa-instagram"></a>

                        <a href="#" class="fab fa-linkedin"></a>

                        </div>

                        <h5 class="card-title">Dr.Elon Musk</h5>

                        <p class="card-text">Cardiologist</p>

                        <i class="fas fa-user-md fa-3x"></i>

                    </div>

                </div>

            </div>

            <!-- Add more doctor cards here -->

        </div>

    </div>

    <script>

        function selectDoctor(name, specialization, docemail) {

            localStorage.setItem('selectedDoctor', name);

            localStorage.setItem('selectedSpecialization', specialization);

            localStorage.setItem('selecteddocEmail', docemail);

            window.location.href = 'doctor-details.html';

        }

    </script>

</body>

</html>