Python
Programming
(Mini Project Report)

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Introduction:

In the dynamic landscape of healthcare delivery, efficient appointment management stands as a cornerstone for providing timely and effective care to patients. The ability to schedule, track, and manage appointments seamlessly not only enhances patient satisfaction but also optimizes resource utilization within medical facilities. This report delves into the intricacies of appointment management.

A user can book appointments for more than one person, cancel appointment and download receipt. Administrator can add doctor records including their work hour, schedule appointments, view current and upcoming appointments, cancel existing appointment and send email to the concerned user regarding the same and update existing appointments.

Problem Statement:

The purpose of the Appointment Management system is to allow users to conveniently book and cancel appointments and allow administrator to schedule and manage appointments.

Contribution:

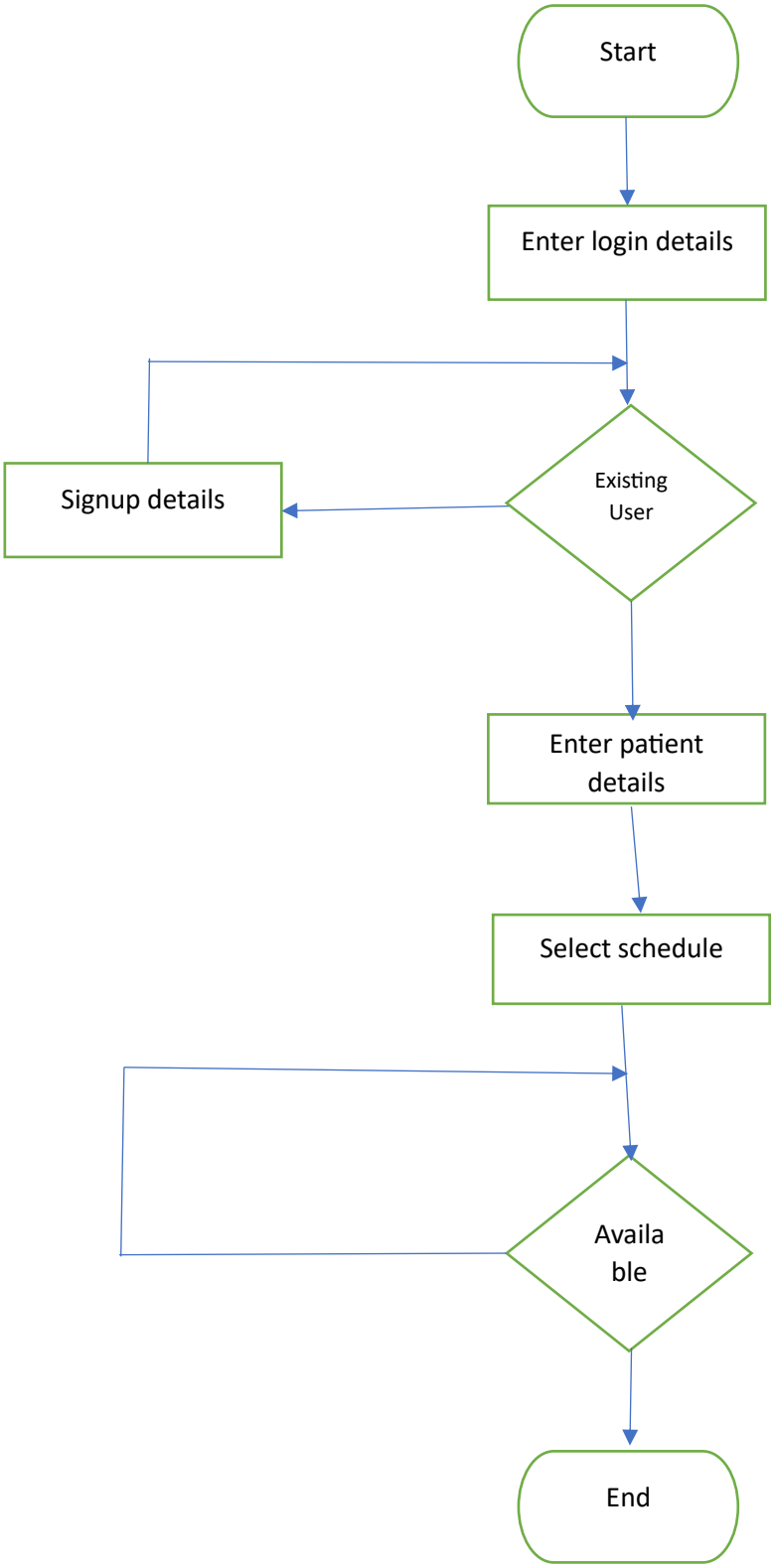
Tiya Das: Database Connectivity, Graphical User Interface, Password Strength Checking

Priti Shinde: Graphical User Interface

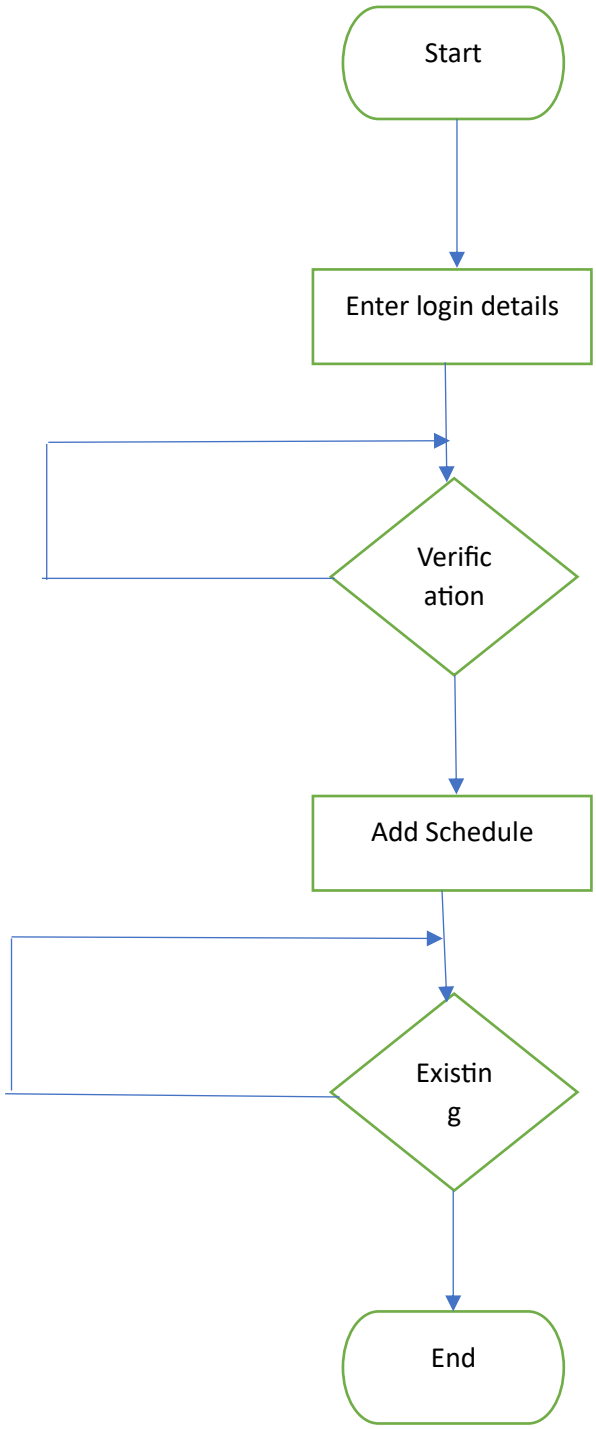
Aditi Singh: Database Connectivity, Graphical User Interface, Email sending, PDF Downloader.

How does it work:

Booking appointment:



Scheduling appointments:



Tasks performed:

1. Main page to choose between administrator and user.

2. Login, signup and forgot password page for user and predefined credential login page for administrator.

3. Page for adding doctor details ,viewing ,deleting existing doctor records and scheduling appointments, viewing and deleting them.

4. Page to view booked appointments and send email to the person if concerned appointment is cancelled.

5. Appointment booking page consisting of viewing doctor details, booking, cancelling appointment and downloading appointment receipt once booked.

Tools/Libraries/technologies:

IDE: PyCharm

Libraries:

Tkinter- ttk, messagebox, filedialog;

PIL-Image, ImageTk;

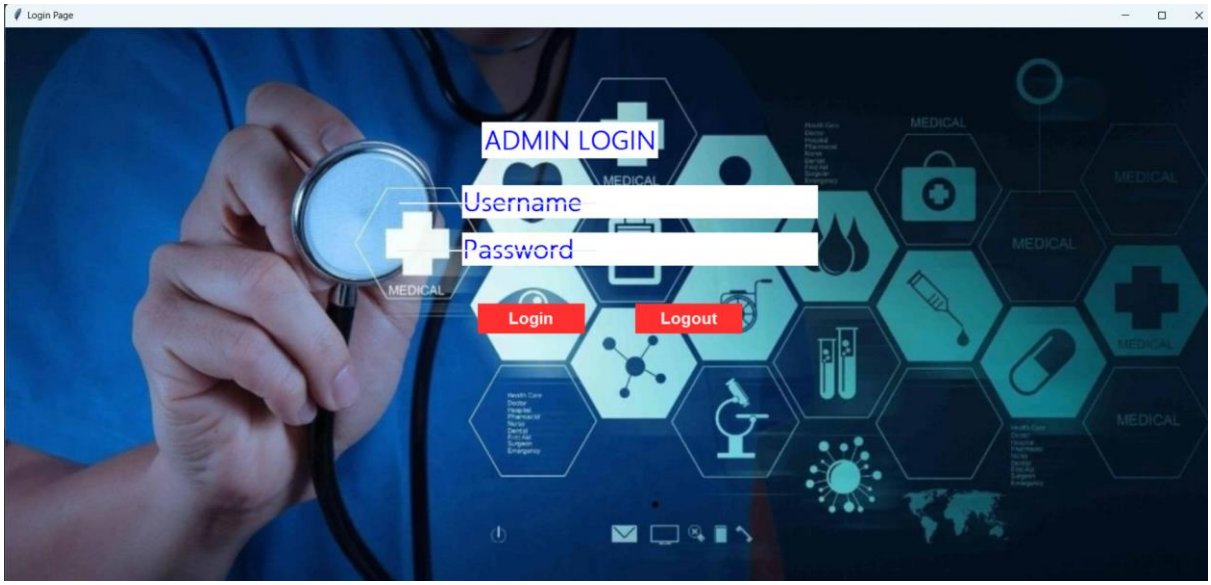
mysql.connector; pymsql; re;

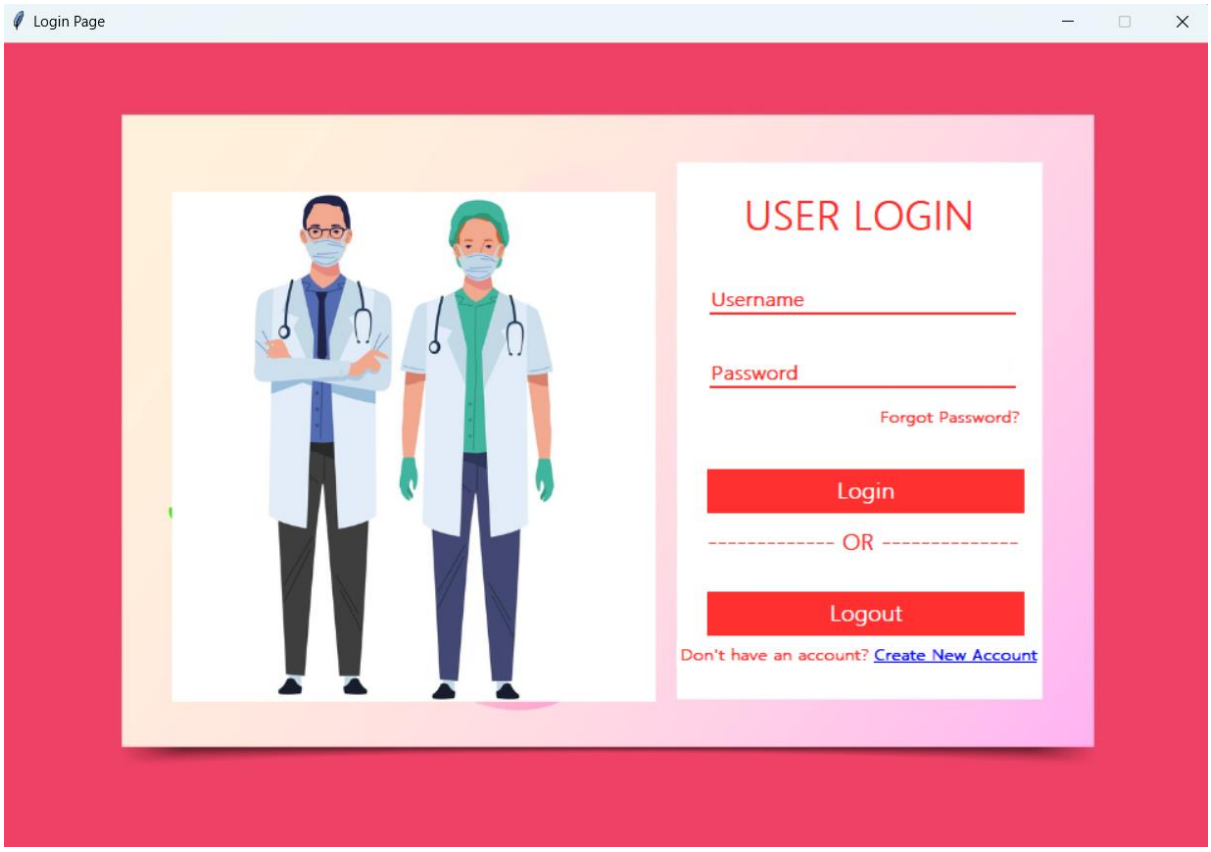
tkcalendar-DataEntry;

tktimepicker-AnalogPicker

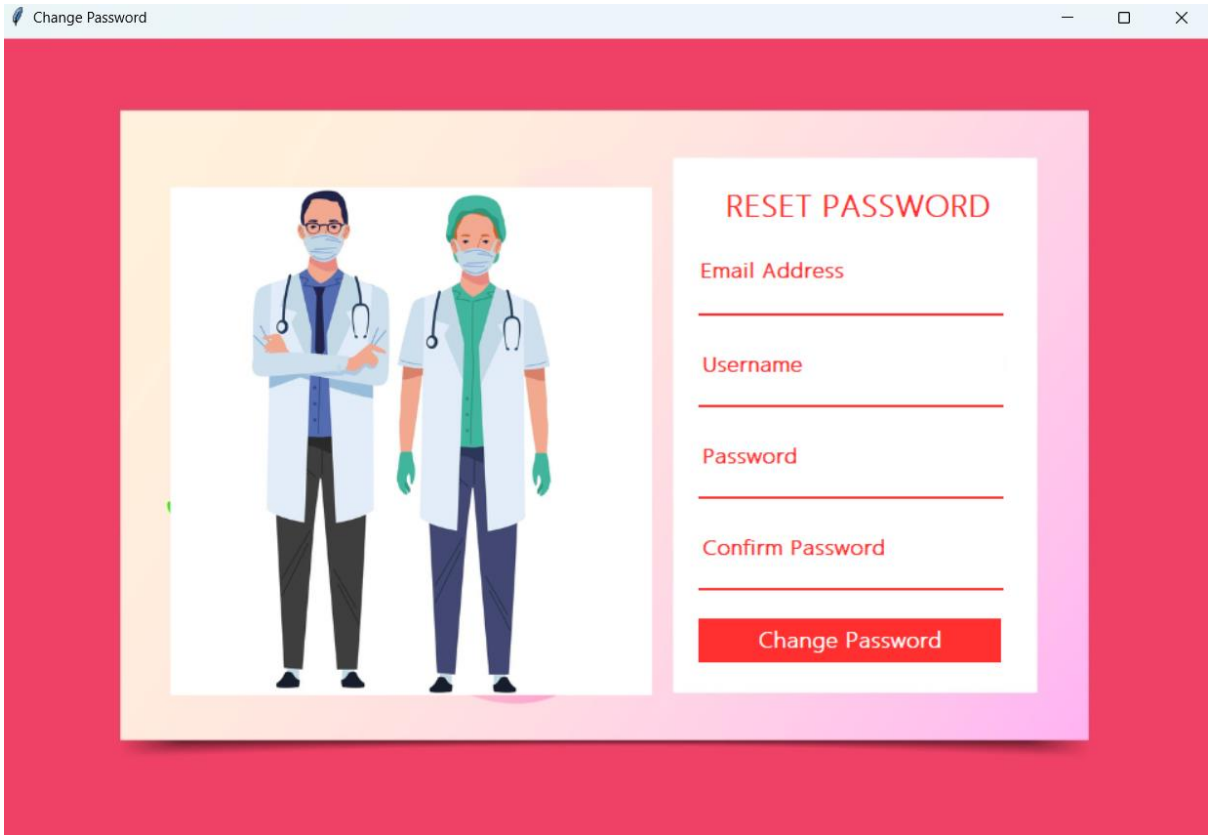
datetime; fpdf-FPDF; smtplib

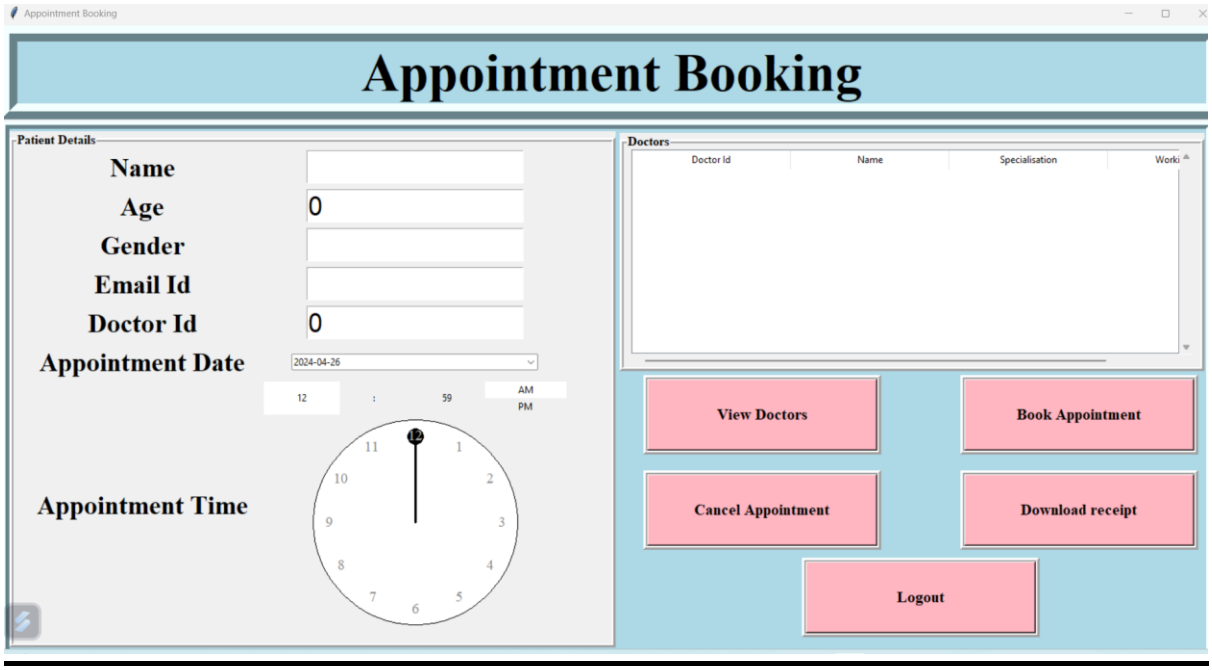
Output and Visualization screenshots:

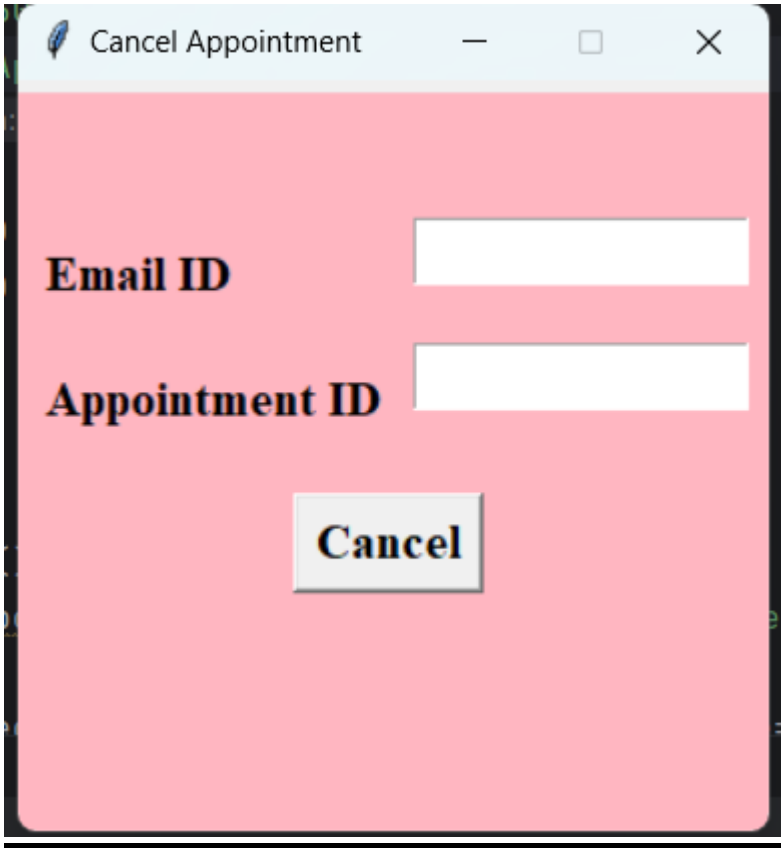


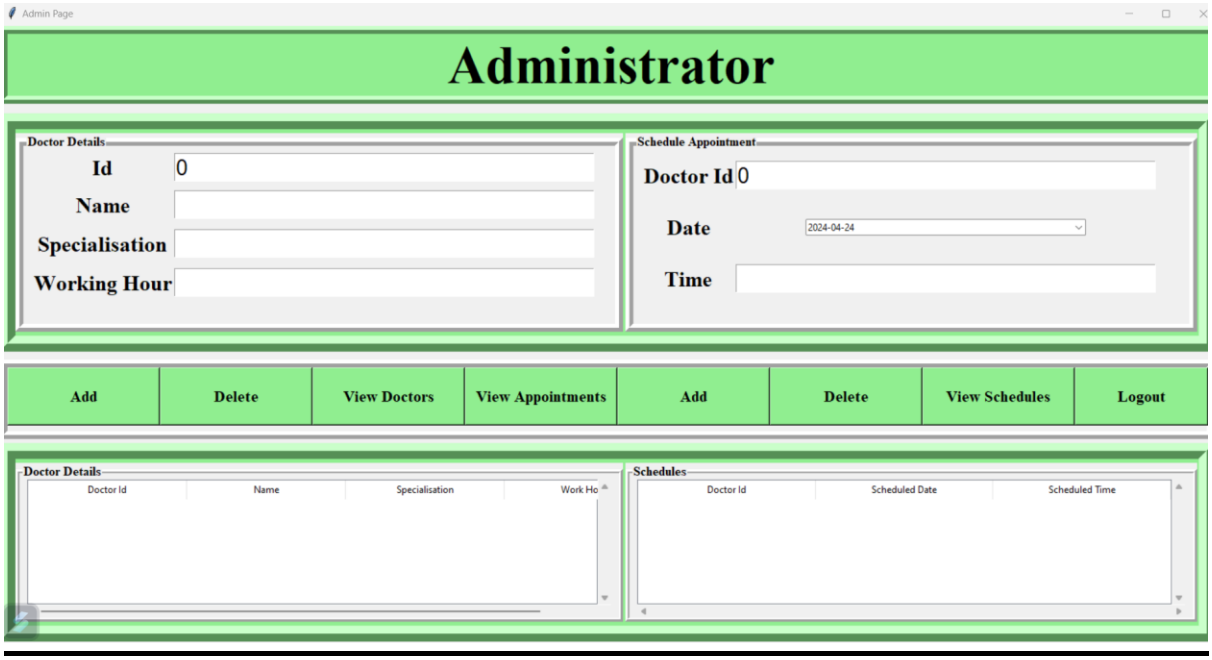

Login Page
USER LOGIN
Username
Password
Forgot Password?
Login
---------- OR ----------
Logout
Don't have an account? Create New Account


Sign Up Page
CREATE AN ACCOUNT
Email
Username
Password
Confirm Password
I agree to the Terms and Conditions
Signup
Already have an account? Login


Change Password
RESET PASSWORD
Email Address
Username
Password
Confirm Password
Change Password


Appointment Booking
Appointment Booking
Patient Details
Name
Age
0
Gender
Email Id
Doctor Id
0
Appointment Date
2024-04-26
12
59
AM
PM
Appointment Time
Doctors
Doctor Id
Name
Specialisation
View Doctors
Book Appointment
Cancel Appointment
Download receipt
Logout


Cancel Appointment
Email ID
Appointment ID
Cancel


Admin Page
Administrator
Doctor Details
Id
0
Name
Specialisation
Working Hour
Schedule Appointment
Doctor Id
0
Date
2024-04-24
Time
Add
Delete
View Doctors
View Appointments
Add
Delete
View Schedules
Logout
Doctor Details
Doctor Id
Name
Specialisation
Work Ho
Schedules
Doctor Id
Scheduled Date
Scheduled Time


Appointments
Appointment Management
Appointments
Id
0
Date
2024-04-24
Time
Email Id
Email text
View Record
Update
Delete
Send Email
Back
Id
Name
Age
Gender
Email Id
Referring Doctor ID
Date Scheduled

Conclusion:

Tkinter is a standard GUI (Graphical User Interface) toolkit in Python, providing a robust set of tools for creating desktop applications with graphical interfaces. It comes bundled with Python, making it easily accessible and widely used for developing user-friendly applications. Tkinter is a versatile and reliable toolkit for developing desktop applications with graphical interfaces in Python, making it a valuable tool for software development projects of varying complexity.

Though it is compact but one can understand a lot of important concepts about GUI, like event loop and event driven programming quite easily with tkinter.

References:

https://docs.python.org/3/library/tkinter.html

https://realpython.com/python-gui-tkinter/

https://stackoverflow.com/questions/31757962/how-do-i-use-python-tkinter-with-sending-mail

https://pypi.org/project/tkTimePicker/

https://www.plus2net.com/python/tkinter-DateEntry.php

https://youtu.be/HrWJzzfU9Z0?si=YMRwOnHwQZegsmaJ