

# HEALTH SYNC PLUS-EFFICIENT HEALTHCARE SYSTEM USING AI

*Submitted by*

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## ABSTRACT

The Medical Assistant Application is a desktop-based healthcare management system designed to streamline and simplify patient engagement, medication tracking, and health monitoring tasks. Built using Python's Tkinter library for the frontend and SQLite for the backend, the application offers an intuitive, tabbed interface that integrates multiple health-related functionalities within a single platform.

The interface is structured with modular tabs that include medication management, appointment scheduling, doctor consultation, and health monitoring. Each tab is developed in a separate module for clarity and maintainability. The GUI leverages themed widgets (ttk), custom styles, and reusable components for a consistent user experience. The application starts with a secure login interface and maintains a persistent floating AI assistant button across all tabs.

Backend operations are handled through built-in Python modules such as sqlite3 for database access, and other standard libraries like os, datetime, json, and threading to support data management, scheduling, and responsiveness. Third-party libraries like tkcalendar and Pillow are integrated to provide advanced widgets and image handling.

# OUTPUT SCREENSHOT

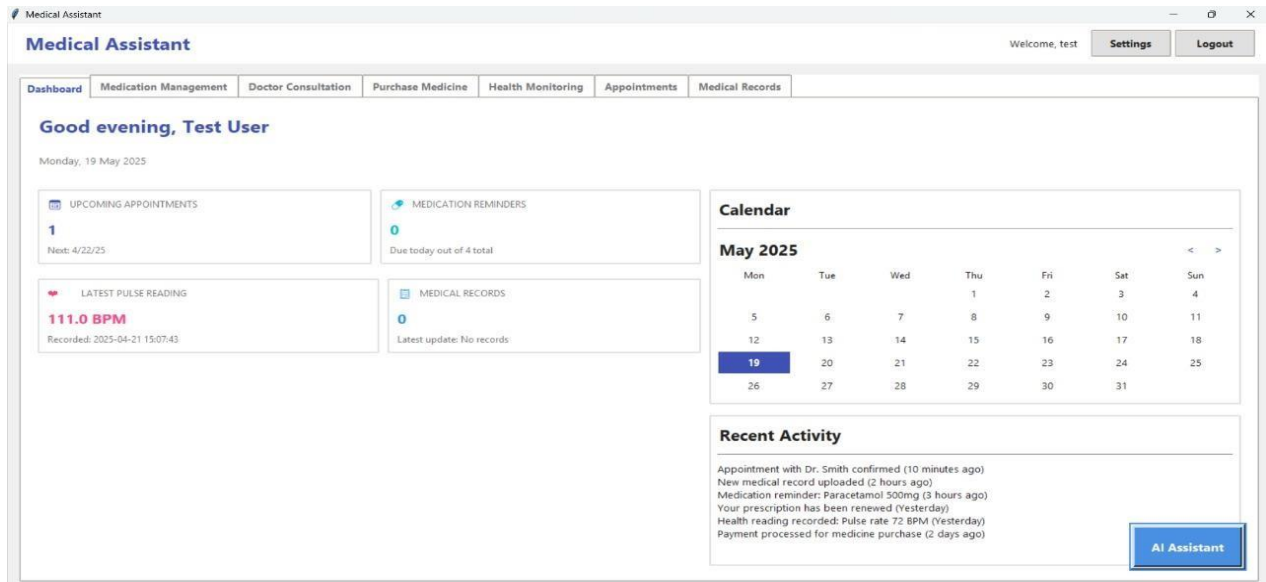


FIG 1 : DASHBOARD

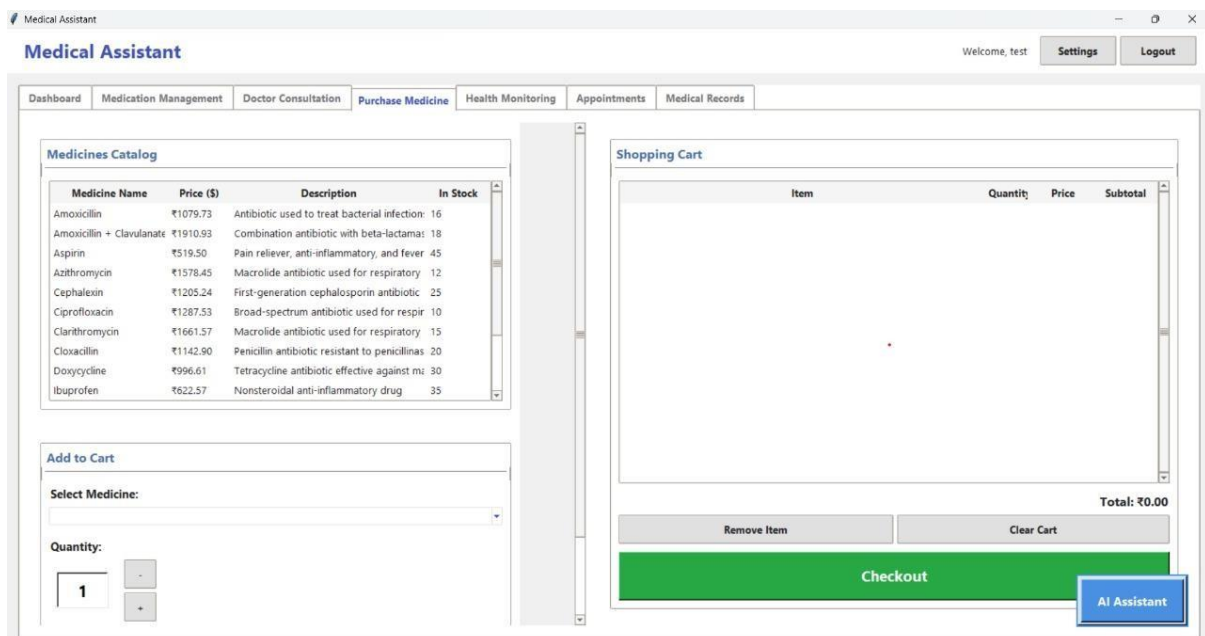


FIG 2 : PURCHASE PAGE

Medical Assistant

Medical Assistant

Welcome, test

Settings

Logout

Dashboard

Medication Management

Doctor Consultation

Purchase Medicine

Health Monitoring

Appointments

Medical Records

Appointment Calendar

May2025

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
18	28	29	30	1	2	3	4
19	5	6	7	8	9	10	11
20	12	13	14	15	16	17	18
21	19	20	21	22	23	24	25
22	26	27	28	29	30	31	1
23	2	3	4	5	6	7	8

Schedule New Appointment

Date:

19-05-2025

Time:

09

:

00

Doctor:

Type:

Consultation

Notes:

Your Appointments

Date	Time	Doctor	Type	Status
17-04-2025	09:00	Johnson (Cardiologist)	Test	Scheduled
4/22/25	09:00	Smith (General Physician)	Follow-up	Scheduled

Appointment Details

Date:

Time:

Doctor:

Type:

Status:

Notes:

AI Assistant

FIG 3 : APPOINMENT BOOKING