



Dept. of CS &E (DATA SCIENCE)
Adichunchanagiri Institute of Technology
Chikkamagaluru - 577102



Mini Project – Seminar **On**

‘Medi Alert: A Smart Pill Reminder for Medication Management and Adherence’


Presented By,
Group No : 08

Shreyas G (4AI23CD050)
Sandesh S (4AI23CD046)
Deepak B J (4AI23CD014)
Hrushank A J(4AI23CD020)

Under the Guidance of

Mrs Ramya C K
Asst professor
Dept of Data Science
AIT Chikkamagaluru

AGENDA

- **Problem Statement**
 - **Scope of the Project**
 - **Project Design**
 - **Methodology**
 - **Implementation**
 - **Challenges Faced**
 - **Results**
 - **Conclusion**
 - **Future Work**
 - **Question**
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PROBLEM STATEMENT

Individuals frequently fail to take their medications on time, leading to missed doses and inconsistent medication adherence, which may result in adverse health outcomes.


To design and implement user friendly web based application for individuals to maintain there medication adherence effectively.



SCOPE OF THE PROJECT

Develop a web-based application to manage and schedule medication reminders. Allow users to enter medicine details such as name, dosage, and timing. Send timely alerts through browser notifications, email, or SMS. Track taken and missed doses for monitoring medication adherence.

Key Features :


- Automated reminders via SMS.
 - Medication history and adherence tracking.
 - Responsive and user-friendly web interface.
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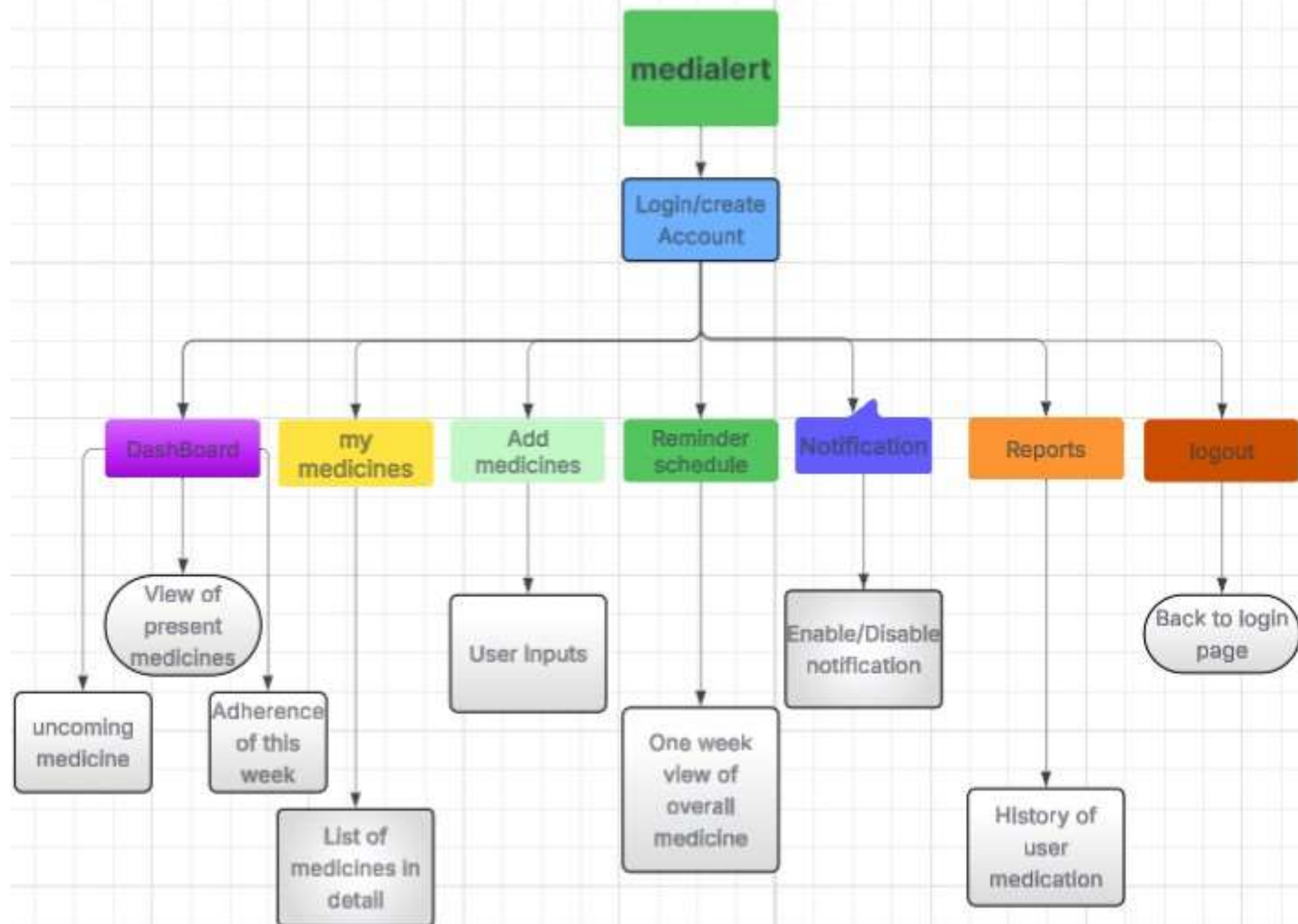
PROJECT DESIGN

- **Frontend:** HTML, CSS
- **Backend:** Python ,Django
- **Database:** Mysql
- **SMS Notification Service:** Twilio API—sends automated medication reminders via SMS



METHODOLOGY

- Identify user requirements for medication scheduling, reminders, and tracking.
 - Design the system flow, user interface, backend structure, and database.
 - Develop the frontend using HTML, CSS easy for user interaction.
 - Implement the backend using Django and integrate the database for storing schedules.
 - Set up notification systems (email/SMS) and test the application for smooth performance.
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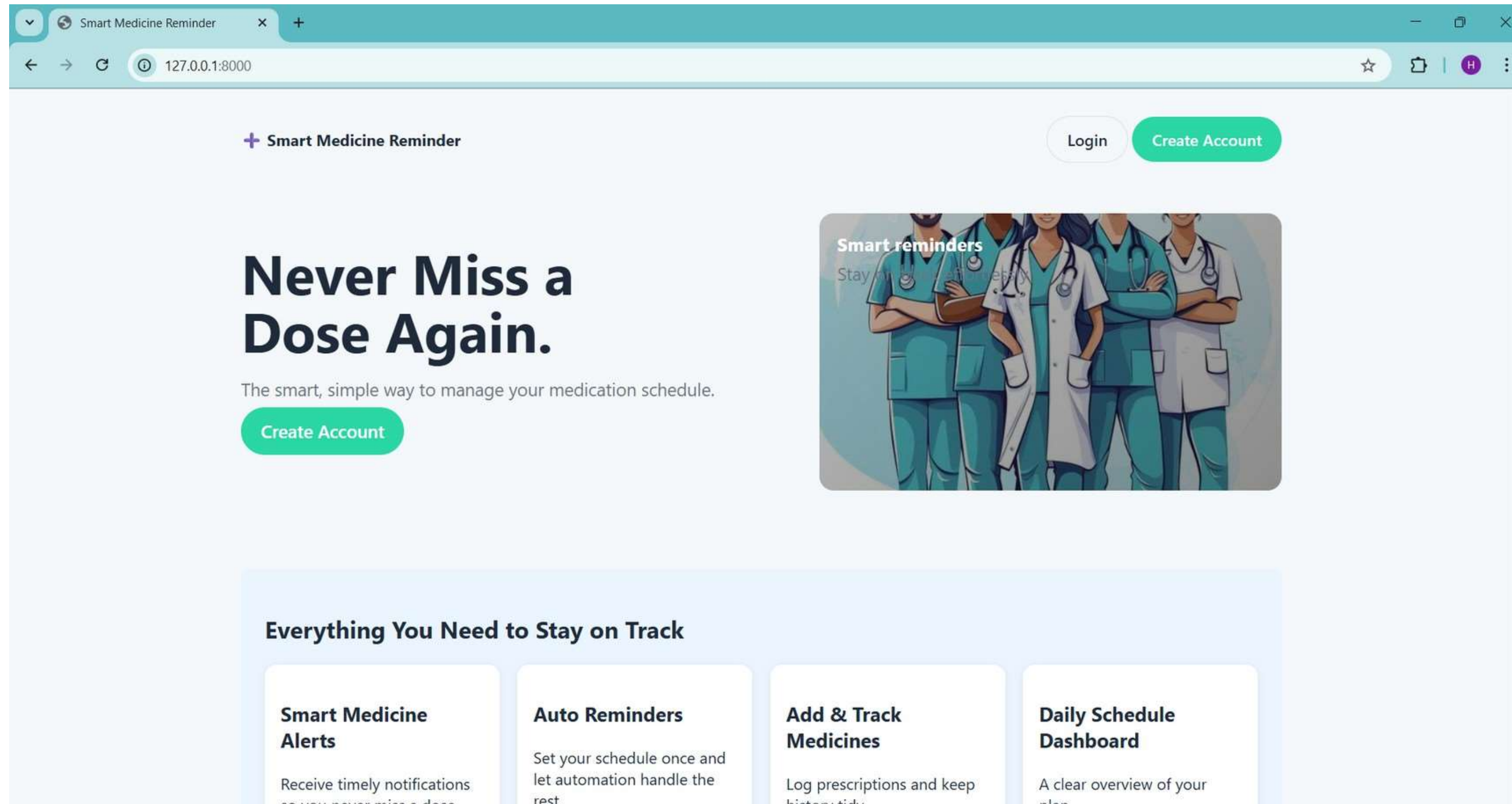
CHALLENGES FACED

- Ensuring reminders were sent exactly on time .
- Managing multiple reminder types (email, SMS).
- Making the interface simple for all users.
- Tracking taken and missed doses need to be precise .



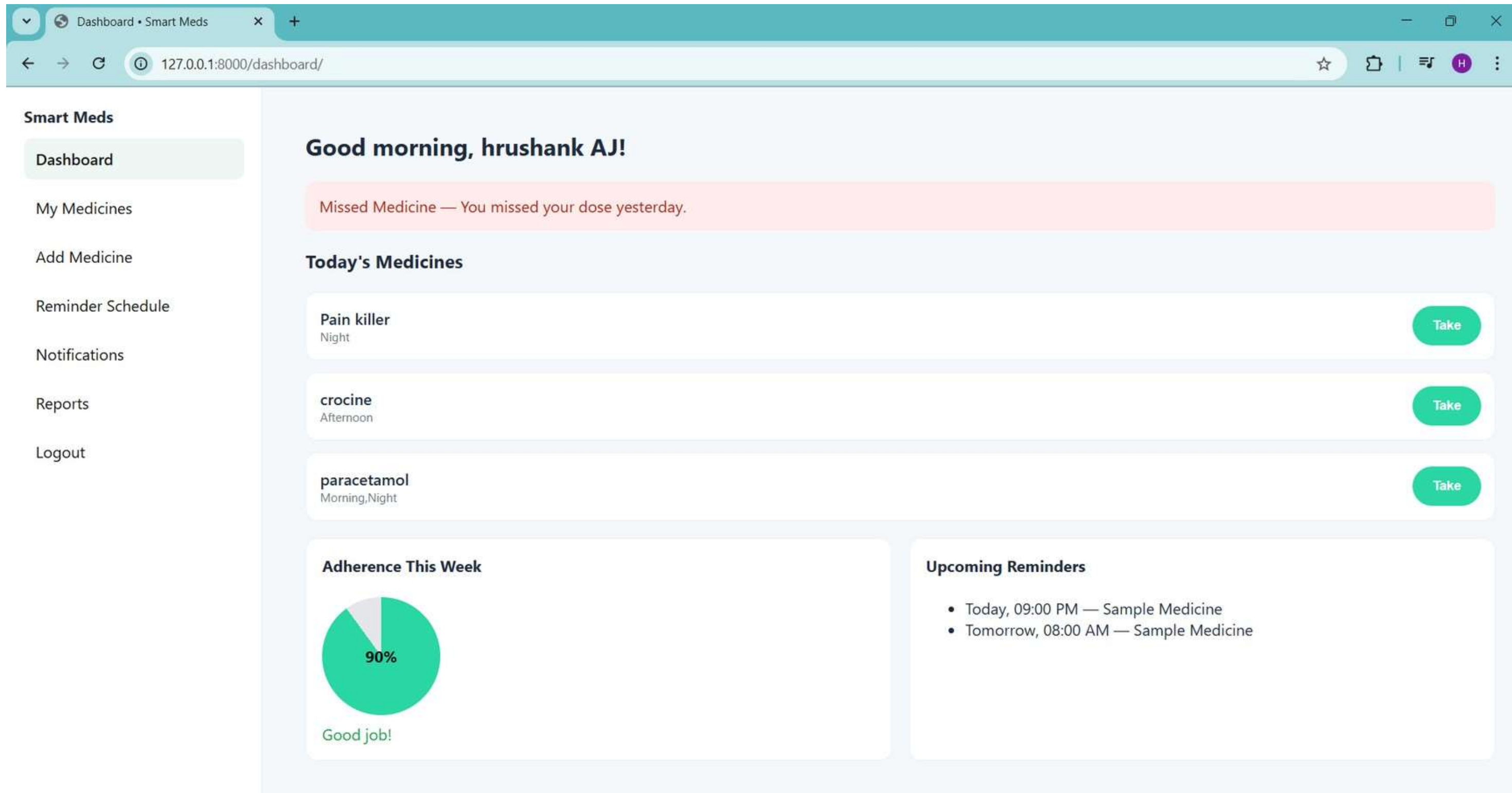
RESULTS

Role-based login/register for User



RESULTS

User can view the present medicines adherence in dashboard



RESULTS

User can Add a New Medicines

Smart Meds

- Dashboard
- My Medicines
- Add Medicine**
- Reminder Schedule
- Notifications
- Reports
- Logout

Add a New Medicine

Fill in the details below to set up your reminders.

Medicine Name

Type

Dosage

Frequency

Start Date

End Date

Time Slots

Morning

Afternoon

Night

Cancel **Save Medicine**

RESULTS

Weakly table of user input medicines

Reminder Schedule

127.0.0.1:8000/schedule/

Smart Meds

Dashboard

My Medicines

Add Medicine

Reminder Schedule

Notifications

Reports

Logout

November 24 - November 30, 2025

Mon 24

Pain killer
50 mg, 09:00 PM

crocine
10 mg, 01:00 PM

Tue 25

Pain killer
50 mg, 09:00 PM

crocine
10 mg, 01:00 PM

Wed 26

Pain killer
50 mg, 09:00 PM

crocine
10 mg, 01:00 PM

paracetamol
100 mg, 08:00 AM

paracetamol
100 mg, 09:00 PM

Thu 27

crocine
10 mg, 01:00 PM

paracetamol
100 mg, 08:00 AM

paracetamol
100 mg, 09:00 PM

Fri 28

crocine
10 mg, 01:00 PM

paracetamol
100 mg, 08:00 AM

paracetamol
100 mg, 09:00 PM

Sat 29

crocine
10 mg, 01:00 PM

paracetamol
100 mg, 08:00 AM

paracetamol
100 mg, 09:00 PM

Sun 30

crocine
10 mg, 01:00 PM

paracetamol
100 mg, 08:00 AM

paracetamol
100 mg, 09:00 PM

RESULTS

Notification Traking

Notifications

127.0.0.1:8000/notifications/

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Smart Meds

Dashboard

My Medicines

Add Medicine

Reminder Schedule

Notifications

Reports

Logout

Notifications

Clear All

Enable Push Notifications

Get alerts directly on your desktop.

☐ Enabled

Save

Upcoming Dose{% elif n.type == 'missed' %}Missed Dose

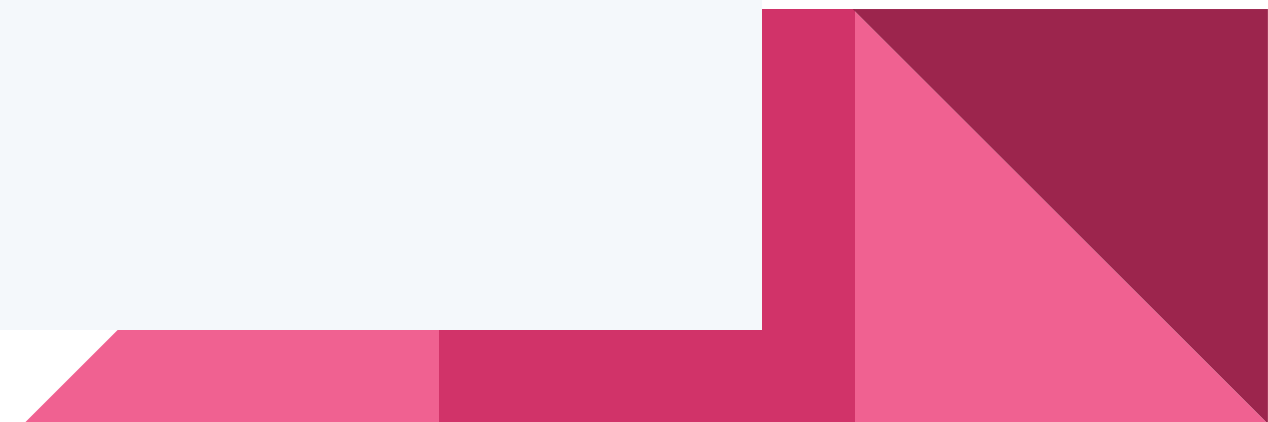
paracetamol — 100 mg at 08:00 AM

soon

New Medicine Added

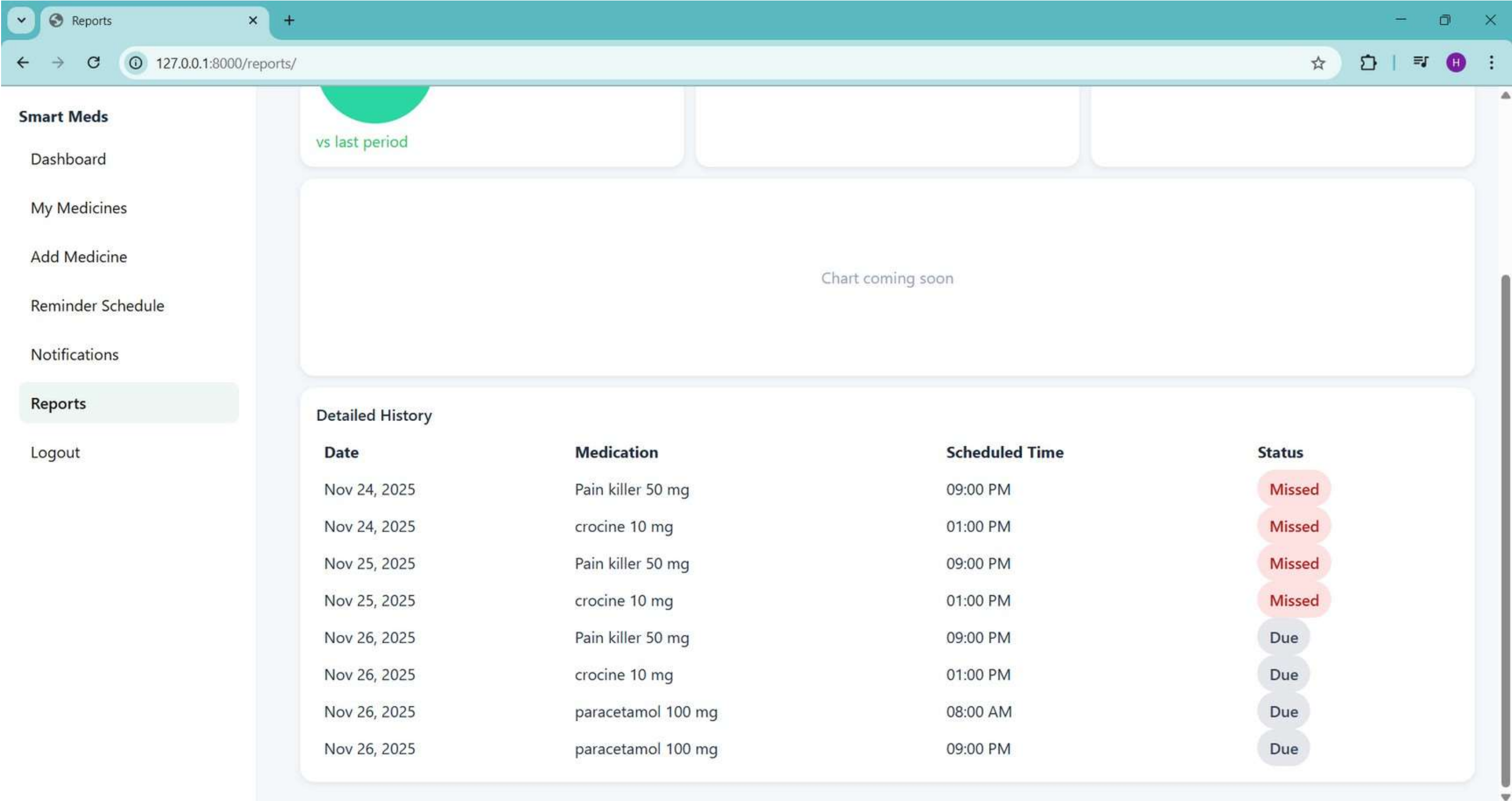
paracetamol has been added to your schedule.

recently



RESULTS

Reports /History of a specific user



CONCLUSION

The Medialert project helps users take their medicines on time by giving clear and timely reminders while tracking their medication history. Overall, it makes daily health management easier and improves medication adherence through a simple and user-friendly system.



Future Work

- Help doctors and caregivers remotely monitor whether patients are taking their medicines on time.
- It can be linked with smart devices like smartphones to give automatic physical alerts.
- The system can be enhanced with AI to analyze user habits
- Real-time health monitoring web-based application



Questions?

Thank You

