



Dept. of CS &E (DATA SCIENCE)
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Mini Project – Proposal Seminar
On
“Medi Alert: A Smart Pill Reminder for Medication
Management and Adherence”
(group no:08)

Presented By,

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Under the Guidance

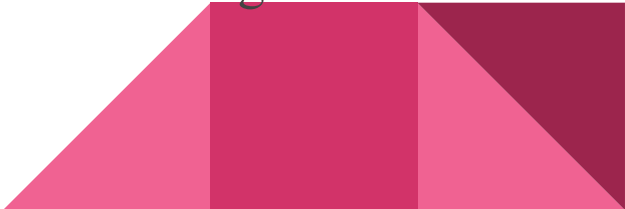
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AGENDA

- **About the Project**
- **Motivation**
- **Existing System**
- **Problem Statement**
- **Proposed System**
- **Tools and Technology**
- **Expected Outcomes**



ABOUT THE PROJECT

- This project proposes “**Medi Alert**”, a smart web application designed to assist individuals in managing their medication schedules effectively by providing timely pill reminders, dosage tracking, and alerts through browser notifications, emails, SMS and Voice assistance.
 - The system uses scheduling and notification technologies to deliver real-time reminders and alerts through multiple channels, enhancing user independence, medication adherence, and overall health management.
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MOTIVATION

- The project aims to use technology to promote medication adherence and reduce human errors.
- Managing multiple medicines and schedules can be challenging, especially for elderly or busy individuals.
- “**Medi Alert**” aims to provide a simple and efficient tool that helps users maintain their medication routines, improving adherence, health outcomes, and overall quality of life.



EXISTING SYSTEM

Current solutions rely on:

- **Dependence on Human Assistance or Caretakers**
- **Use of QR Codes or Barcodes(not universal)**
- **Limited App Functionality**

These systems lack efficiency, accessibility, and real-time audio or smart notification interaction



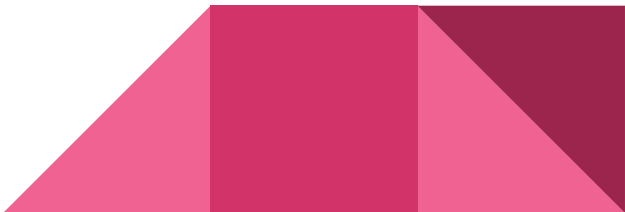
PROBLEM STATEMENT

- To design reliable and user-friendly web-based system is needed to provide timely reminders and maintain proper medication adherence.

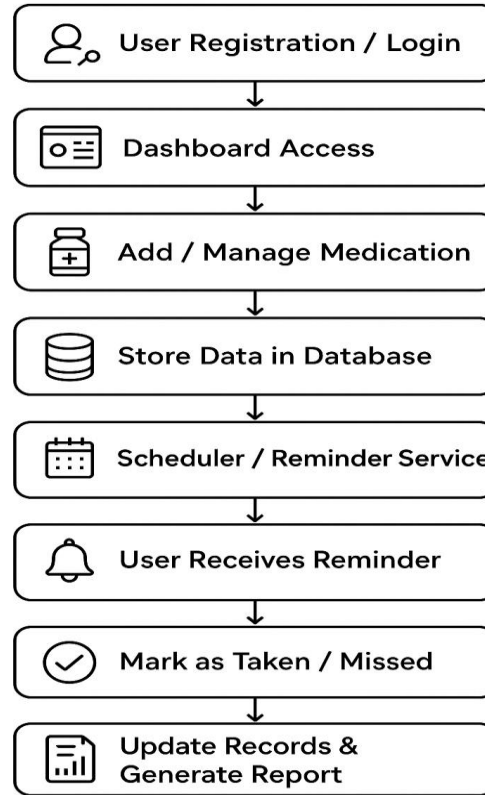


PROPOSED SYSTEM

“Medi Alert” is a Web application that offers:

- Smart medication reminders through notifications, SMS, or email.
 - Voice command activation for easy hands-free interaction.
 - Audio assist to user.
 - Caregiver assistance mode for failed detections.
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MediAlert Workflow Diagram




TOOLS AND TECHNOLOGY

- **Frontend:** HTML, CSS, JavaScript
- **Backend:** Python ,Django
- **Database:** MongoDB
- **Voice assistance:**Google Cloud Text-to-Speech (TTS)
- **SMS Notification Service:** Twilio API / Fast2SMS – sends automated medication reminders via SMS



EXPECTED OUTCOMES

- Web-based system accessible from any device with internet.
 - Timely medicine reminders through notifications/email/SMS.
 - Tracking of medication history.
 - Reduced chances of missed or incorrect doses.
 - Improved health management for patients.
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Questions?

