



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



Mini Project – Proposal Seminar
On
‘‘Medi Alert: A Smart Pill Reminder for Medication
Management and Adherence’’
(group no:08)

Presented By,

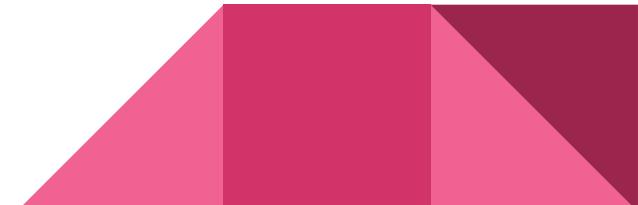
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AGENDA

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

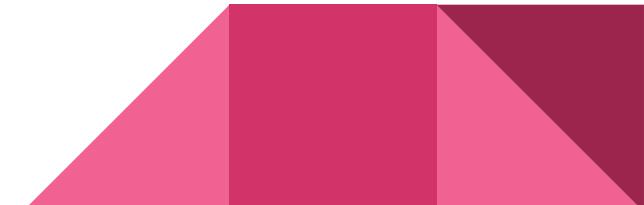


ABOUT THE PROJECT

- 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.

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

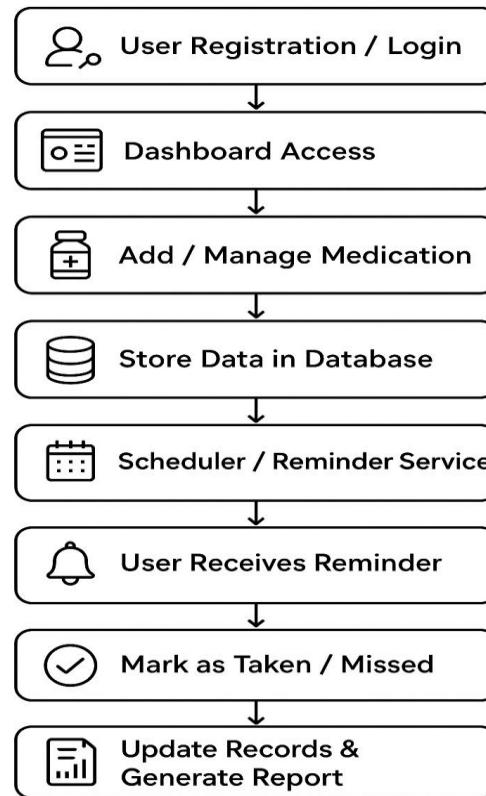
- To design reliable and user-friendly web-based system is needed to provide timely reminders and maintain proper medication adherence.

PROPOSED SYSTEM

“Medi Alert” is a Web application that offers:

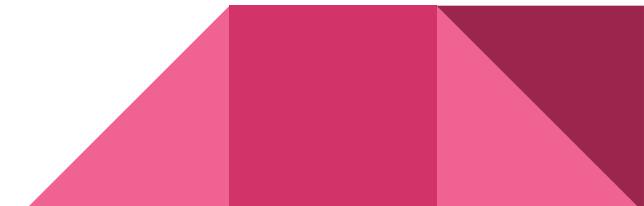
- Smart medication reminders through notifications, SMS, or email.
- Voice command activation for easy hands-free interaction.
- Audio assist to user.
- Caregiver assistance mode for failed detections.

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.

Questions?

