

PROJECT PROPOSAL

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Mission and Vision



MISSION

All around the world, there are elderly people, people with chronic conditions such as diabetes, heart disease etc., caregivers (Family members or professionals), and busy professionals who take multiple medications regularly. We plan on building a pill management system which provides an easy to use and practical solution to solve this problem.

PROBLEM STATEMENT

People forget to take their prescribed medications on time which can lead to serious health risks.

Sometimes elderly people tend to lie about taking their medication.



Objectives

Primary objective

To develop a pill management system with an in-built alarm system to alert people when to take their medications.

Secondary objectives

- Sending notifications to family members or caregivers confirming that the patient has taken the medication on time reducing the stress on the family members due to uncertainty.
- If the patient fails to take the medication, a distress message will be sent to the family members or caregiver informing them so they can take necessary actions.



Methodology

Development Steps

- Requirement analysis: Determine the needs and features of the system.
 - Hardware design: Determine the physical layout of the system
 - Software development: write the code for User interface, Database management .
 - Integration: Combine hardware and software components.
 - Testing: Test the system to ensure reliability and functionality
 - Deployment: Provide a working prototype of the product
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Hardware Components:-

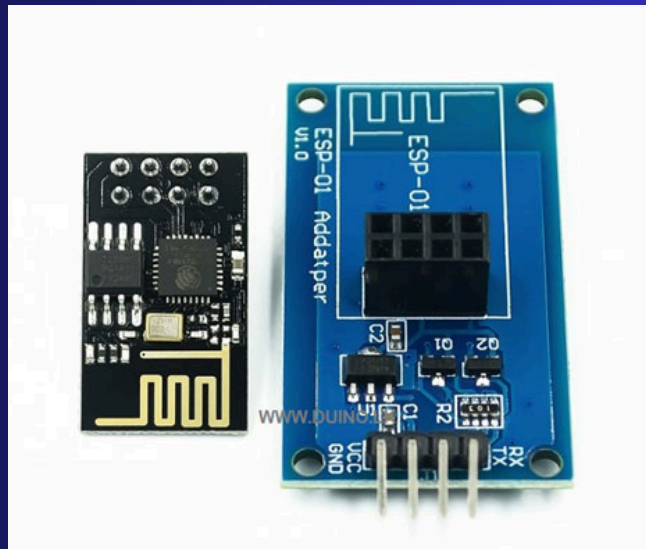
- Microcontroller(Arduino)
- Display(Led display)
- Alarm/notification system()
- Sensors(To detect if pills have been taken)
- Power supply
- Wifi module

Software component

- User interface: Software for setting up medical schedules and reminders
- Database(To store user data and medication schedules
- Notification system

Tools and Technologies

- Python
- HTML/CSS
- C



Market Research

Project Plan

Timeline:

- Month 1:
- Month 2:
- Month 3:
- Month 4:

Financial burden

Budget:

Estimated cost of Rs. ()for hardware components

Individual item costs

LED display:

WIFI module:

Alarm/Sound system:

Sensors:

Future Plans

Add future additions to the project here

References