

HEALTH ASSISTANT SYSTEM



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PRODUCT DESCRIPTION

The **Health Assistant System** is an IoT-based device designed to assist elderly individuals in managing their medication and monitoring basic health conditions. The system provides automatic medication reminders and tracks health parameters such as heart rate, temperature, oxygen level and anxiety. It also allow caregivers to monitor users remotely through a mobile platform, ensuring better safety and support.

OBJECTIVES

- 1 To develop a Health Assistant System that combines medication reminders and health monitoring.
- 2 To monitor vital health parameters such as, heart rate, skin conductance and oxygen level (SpO2).
- 3 To trigger an alert to take medication on the right time for elderly people.

SIGNIFICANTS & BENEFITS

Improving Elderly Health and Well-being

The system ensures elderly individuals take their medication on time, enhancing their health management and reducing the risk of health complications due to missed doses.

Reducing Healthcare Burden

By automating medication reminders and enabling remote monitoring, the system reduces the need for constant supervision, easing the burden on healthcare providers and caregivers

Enhanced Safety and Independence for Elderly Individuals

The system promotes independence by helping elderly users manage their medication and health data safely, while caregivers can monitor them remotely for added security.

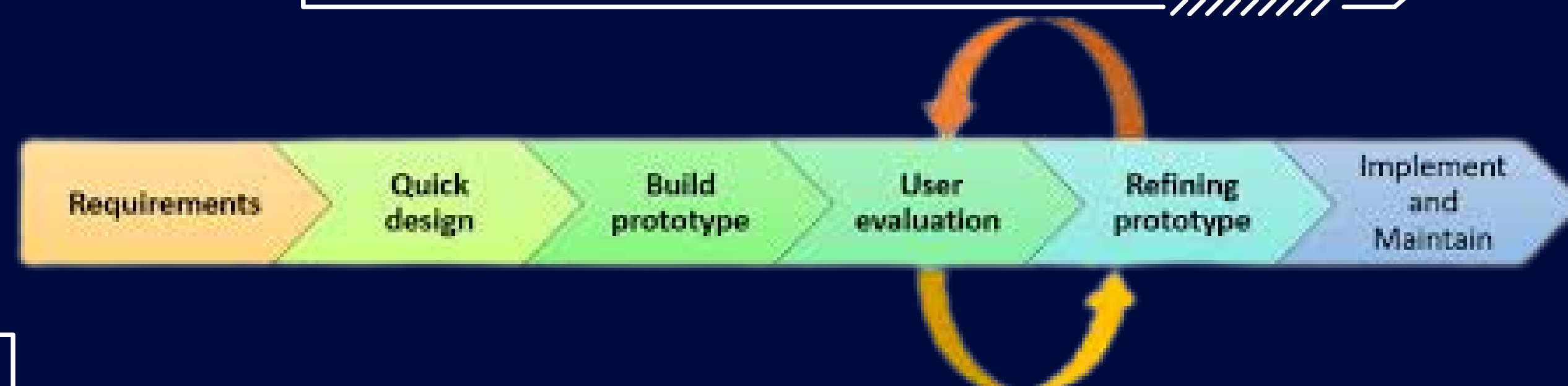
Improving Mental Health and Quality of Life

With medication reminders and health monitoring, the system reduces stress and anxiety for elderly users, improving their overall mental well-being and quality of life.

PROBLEM & CAUSE

- Lack of continuous health monitoring for those living independently
- Difficulty managing multiple medications and schedules
- Forget to take medication on time

METHODOLOGY & MATERIAL



Prototyping Model for the Health Assistant System to ensure flexibility and continuous improvement throughout development. This approach allows us to build an early version of the system, test it with users and gather feedback to enhance functionality

COMMERCIALIZATION POTENTIAL

High Market Demand



The system targets elderly individuals and caregivers, a growing population that requires better healthcare solutions.

Affordable and Scalable Product



With an estimated cost of around RM235, the product is cost-effective and can be mass-produced for wider distribution.

Suitable for Healthcare Industry



Can be implemented in hospitals, clinics, nursing homes, and home care environments.

CONCLUSION

Health Assistant System helps improve elderly healthcare by ensuring proper medication intake and basic health monitoring. It includes features such as medication reminders, heart rate and temperature sensors, and real-time alerts. Caregivers can monitor medication and health data remotely through a mobile app, providing convenience and peace of mind. The design is affordable, user-friendly, and allows for future upgrades, making it a practical solution for modern elderly care.

SURVEY

86.4%

86.4% of users agreed technology can help improve healthcare management

81.8%

81.8% of users would use a system that monitors health

90.9%

90.9% of users think an alert system improves safety for elderly users

75%

75% of users very likely to use this system in the future