

HomeEyes

A home security at a welfare home

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PRODUCT DESCRIPTION



HomeEyes is a budget-friendly IoT security system for welfare homes, built on the ESP32 platform. It replaces traditional alarms with smart sensors that send instant alerts via the Telegram app. By centralizing camera feed, sensor data, and remote controls into one platform, HomeEyes ensures continuous protection for residents and assets from anywhere.

PROBLEM & CAUSES:

1.

Vulnerable Assets

Current systems fail to adequately protect valuable donated assets.

2.

No Remote Alert

Caretakers lack real-time notifications for incidents occurring off-site.

3.

Lack of Analytics

Absence of smart data to track or analyze intrusion patterns.

OBJECTIVES:



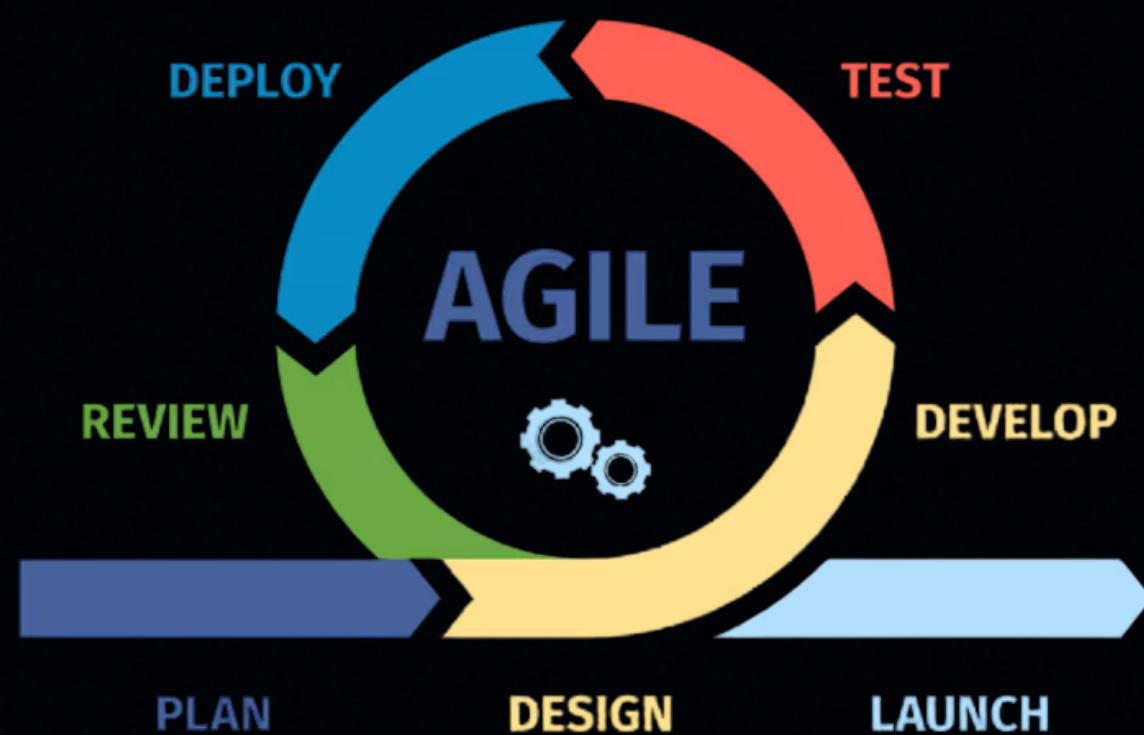
To develop an IoT system for detecting door, window and area intrusion.



To provide instant mobile notifications for suspicious activity.



To centralize camera feeds and sensor data into a single management app.



METHODOLOGY & MATERIAL

This project utilizes the Agile methodology to ensure an incremental, flexible development process, enabling systematic testing and continuous improvements for optimal system quality.

SIGNIFICANT & BENEFITS:

01

Enhanced Asset Protection

Safeguards donated goods from theft and damage through active surveillance and monitoring

02

Instant Remote Response

Delivers real-time mobile alerts, allowing caretakers to act immediately from anywhere.

03

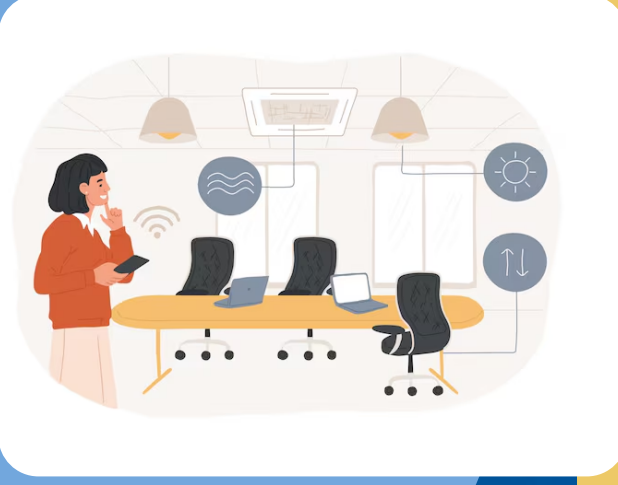
Centralize Management

Uses digital logs to improve decision-making and long term safety planning.

COMMERCIALIZATION POTENTIAL

SMART OFFICE SECURITY SYSTEM

Enhances workplace security and attendance management

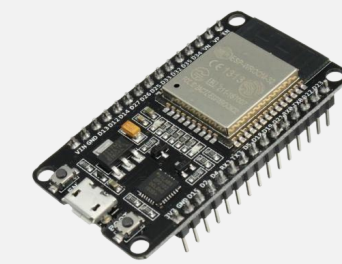


INDUSTRIAL SAFETY SYSTEM

Improve safety monitoring in workplace



SENSORS



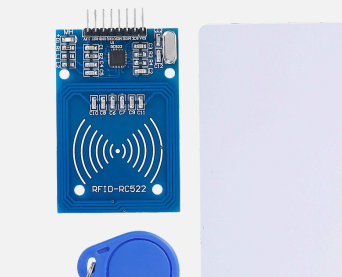
ESP 32



ESP CAM



Servo Motor



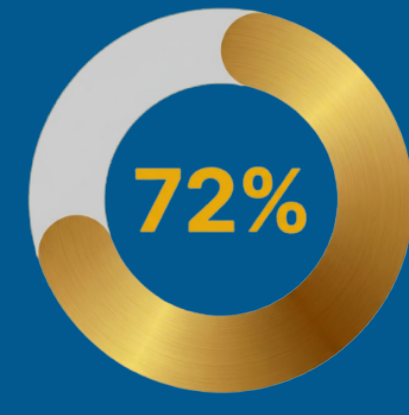
RFID & Cards

SURVEY

A survey was conducted among 45 users to assess the effectiveness of the HomeEyes in enhancing security and monitoring using IoT technology. The results are as follows:

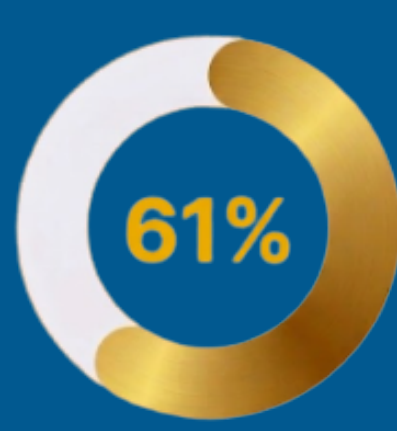


80% of users agree that mobile app monitoring significantly enhances the safety of welfare homes



72% of users show strong interest in HomeEyes with real-time mobile notifications

61% of users identify the lack of security personnel as the biggest safety challenge



60% of users are willing to support and invest in the HomeEyes system installation

