ADVANCED SMART DOORBELL SYSTEM

A TETRA PRODUCT

INTRODUCTION: OVERALL PROJECT OBJECTIVE

THE OBJECTIVE IS TO MAKE A ADVANCED SMART DOORBELL SYSTEM WITH THE FOLLOWING FEATURES IN IT :

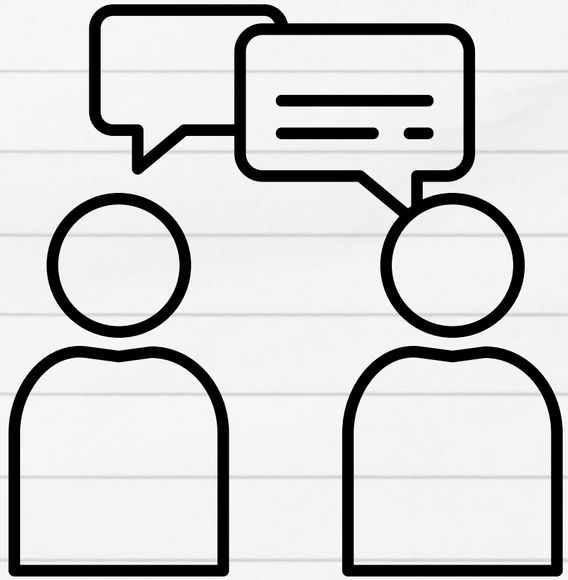
- *FACIAL RECOGNITION*
- *TWO-WAY COMMUNICATION*
- *REMOTE DOOR UNLOCKING*
- *EMERGENCY 911 DIAL*
- *WILD ANIMAL DETECTION AND NOTIFICATION*
- *ENERGY EFFICIENT OPERATION*
- *CUSTOMIZABLE DOORBELL SOUNDS*
- *KEYLESS ENTRY*

FACIAL RECOGNITION

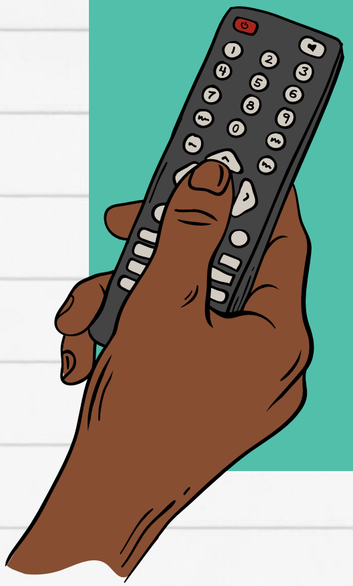
During the initial setup of the device, the AI scans and registers the user's face. If the recognized user approaches the device, the door unlocks automatically. However, if an unknown individual approaches the door, the doorbell rings twice to thrice as a precautionary measure. Following this, a notification is promptly sent to the user, informing them of the presence of an unidentified person at the door.

TWO- WAY COMMUNICATION

A two-way communication system is implemented to facilitate dialogue between the owner and visitors. The owner has the capability to see the visitor's face through a discreetly hidden camera, while the visitor is unaware of the camera's presence. This setup is particularly useful during delivery transactions and serves as a deterrent against potential criminal activities.



REMOTE DOOR UNLOCKING

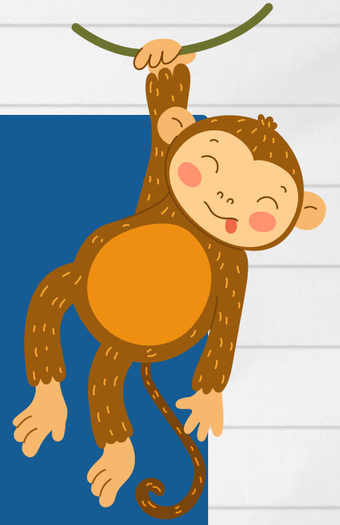


A remote control panel installed indoors enables users to conveniently unlock doors from a centralized location within their home or office. By simply pressing a button or entering a code, they can remotely grant access to visitors or delivery personnel without needing to physically approach the door, enhancing convenience and security.
Integrate the door unlocking system with existing smart home platforms like Google Home or Amazon Alexa, enabling users to unlock the door using voice commands or through the smart home app.

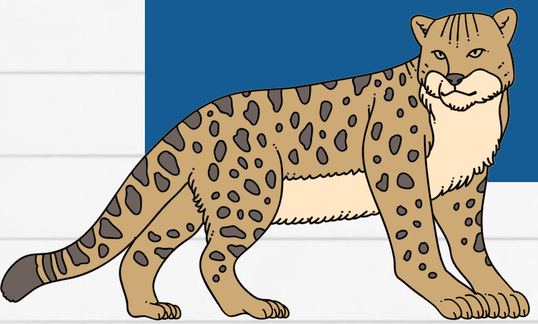
EMERGENCY 911 DIAL

In case of emergency, the user can directly call 911 through the door's system by pressing the designated call button. This feature allows the owner to quickly summon emergency assistance without needing access to a phone, providing a crucial lifeline during urgent situations.

WILD ANIMAL

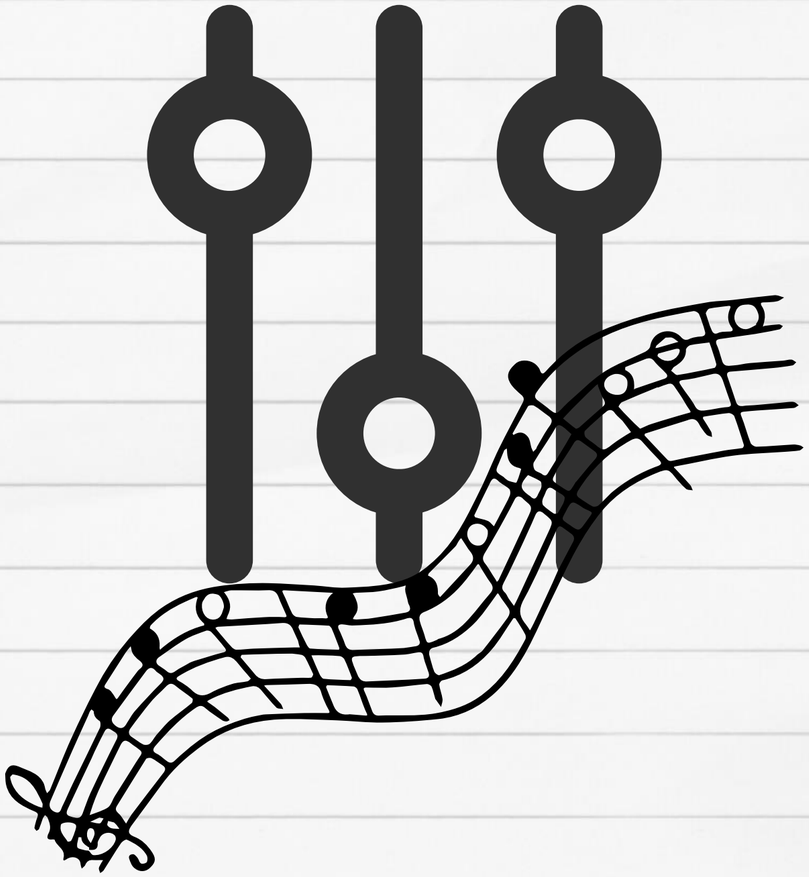


If the camera detects any wild animals, an alert notification is promptly sent to the user, prompting them to remain vigilant. This feature serves as an early warning system, enabling the user to take necessary precautions and ensure their safety in the vicinity of their property.



ENERGY EFFICIENT OPERATION

The device operates intermittently, entering sleep mode to conserve energy. Upon the user's approach, it activates, and upon unlocking, it greets with a welcoming message, enhancing user interaction while efficiently managing power consumption.



CUSTOMIZE DOORBELL

OWNER IS GIVEN THE OPTION TO CUSTOMIZE THE DOORBELL SOUND BASED ON THEIR TASTE OF MUSIC.

KEY LESS ENTRY

Implement a keypad system where the user can generate and send temporary entry codes to visitors or delivery personnel via text message or email. These codes can be time-limited and single-use for enhanced security.

ADVANCED SMART DOORBELL SYSTEM

FACIAL RECOGNITION
TWO-WAY COMMUNICATION

WILD
ANIMAL

REMOTE DOOR
UNLOCK

ENERGY
EFFICIENT

EMERGENCY
DIAL

CUSTOM
DOORBELL
KEY LESS ENTRY

THANK YOU VERY MUCH!