

# SMART ALERT SYSTEM FOR HEARING IMPAIRMENTS

**Abstract** This project proposes a smart alert system designed to assist individuals with hearing impairments.

It integrates vibrational and wireless alerts to notify users of important environmental cues.

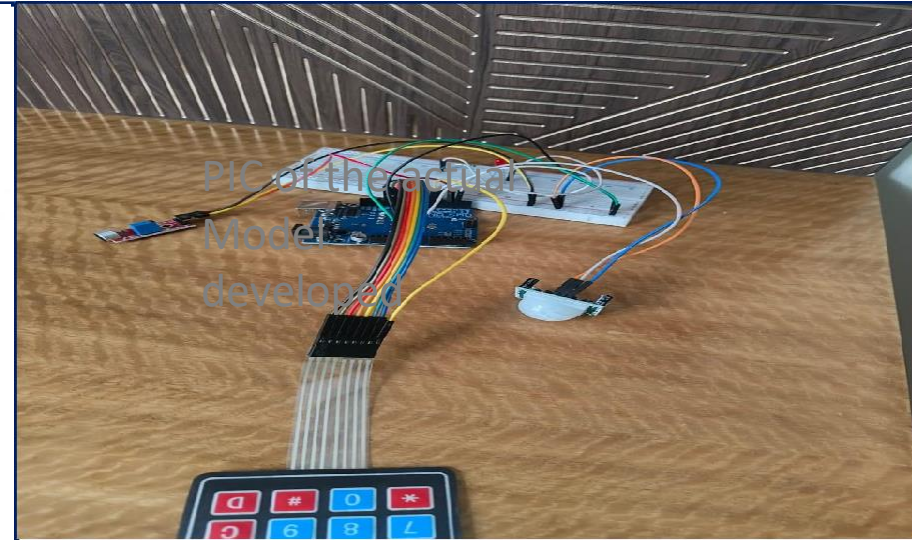
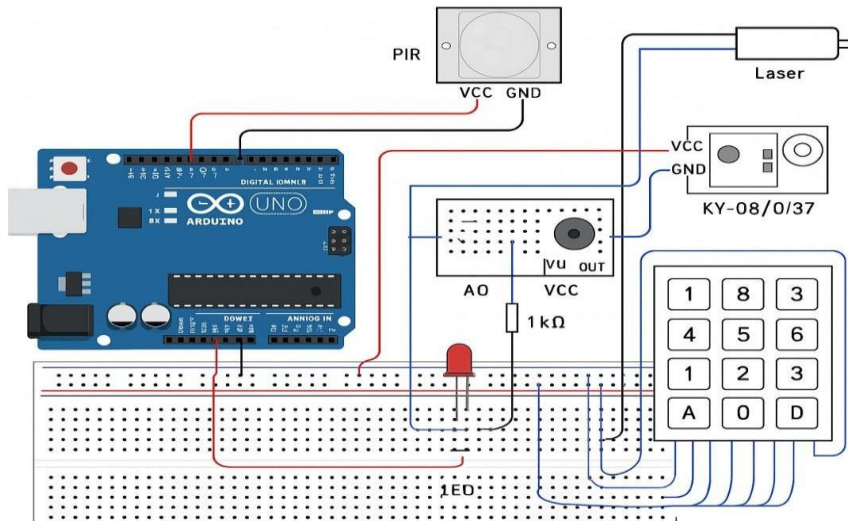
A PIR sensor detects human motion, while a sound sensor captures critical sound events.

An Arduino Uno processes sensor inputs and triggers corresponding alerts.

A 4x4 matrix keypad allows manual input for customized settings and emergency notifications.

The system ensures timely alerts through vibrations and wireless signals for better awareness.

It aims to enhance safety, independence, and accessibility for hearing-impaired individuals.



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