I. **Project Title: A WEARABLE SMART AID TO BLIND PEOPLE**

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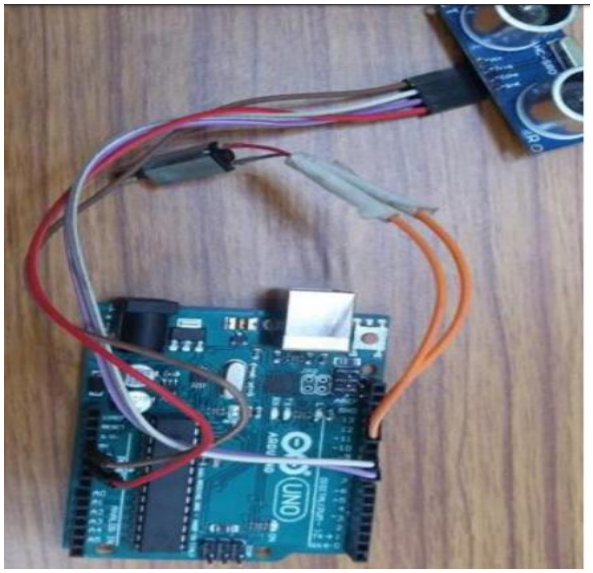
II. **Project Supervisor:** Professor Kayalvizhi Jayavel

III. **Objective:** Identification of the Objects (Obstacles) and notification to the blind person

IV. **Requirements:**

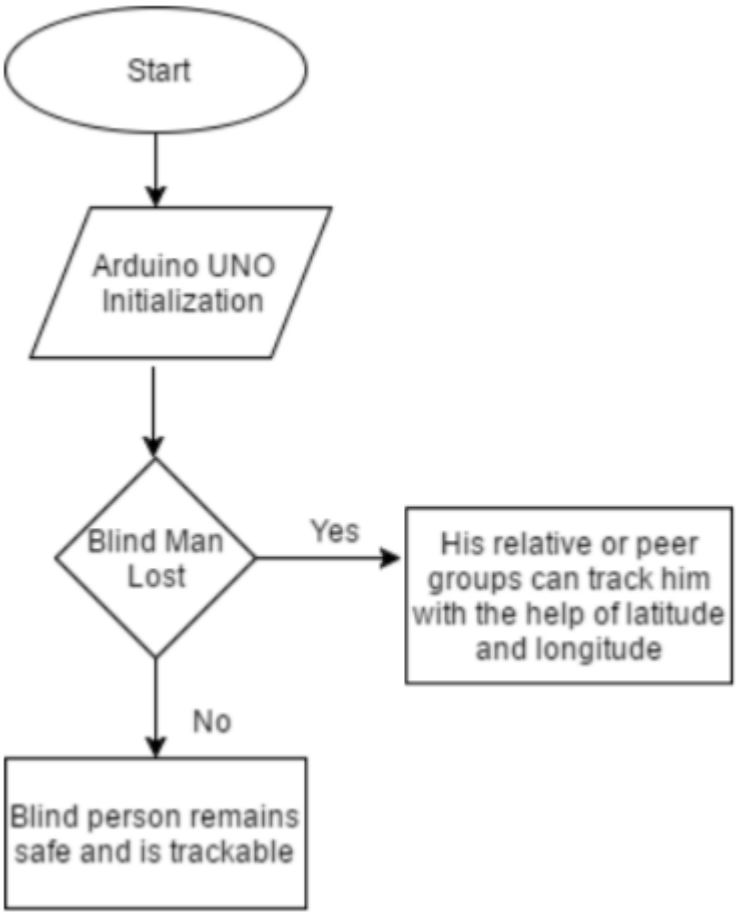
-Node MCU
-Arduino
-Ultrasonic sensors
-Buzzer
-Jumper wires
-Breadboard

V. CIRCUITS



Object Detection Module using Ultrasonic sensors

VI. FLOW CHART



Flow chart of how this works

VII. Working Principle

The life of blind and visually impaired people is very different. They face many problems in moving from one place to another. Since they cannot see, they often get hit by objects in roads like poles, walls, cars, people etc. as a result they may severely injured. It may lead to face humiliation and lose confidence in themselves. There are chances that they can get lost. In such cases, it is very difficult for their family members to find them. Even though they are provided with stick, in which they can identify the object by tapping it. It is not much helpful for them in order to avoid obstacles, when blind people meet obstacles in front and behind with this project, they are notified and a buzzer in switched on.