

ABOUT:

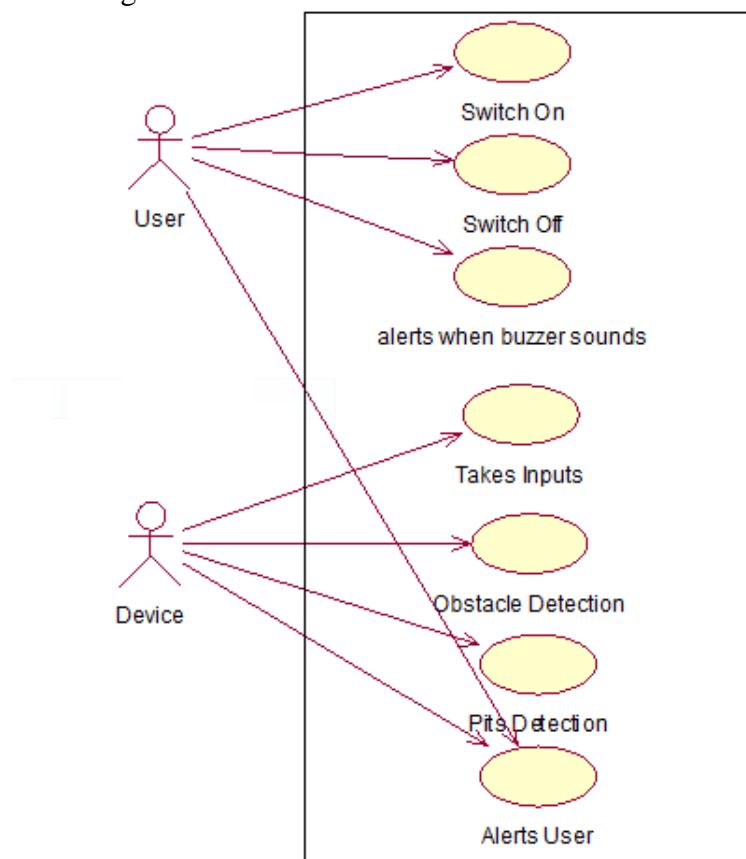
Smart walking cane acts as an Electronic Travel Aid (ETA). Smart walking cane solves the challenge by detecting both indoor and outdoor obstacles and by providing level crossing guidance. Obstacles are detected using Ultrasonic sensors. Buzzer assists to intimate the user about the obstacle or pit. This Smart walking cane meets the mandatory requirements of the blind people to know the position and orientation of the visually challenged.

Components Used:

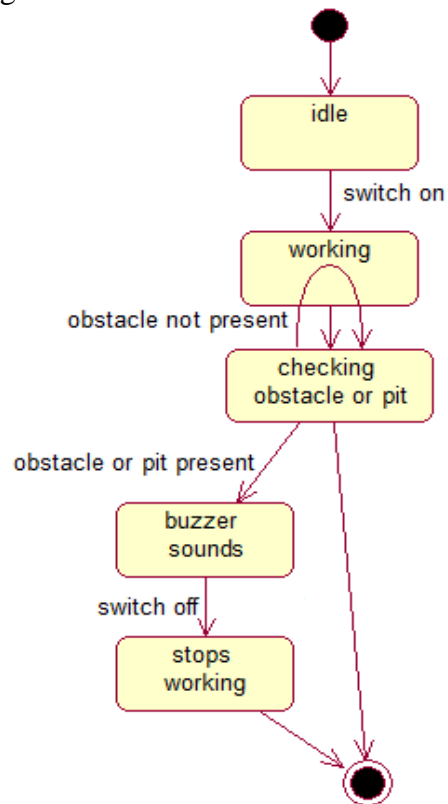
1. Arduino UNO
2. Ultrasonic Sensor
3. Buzzer
4. Switch
5. Battery
6. Walking Cane

UML Diagrams:

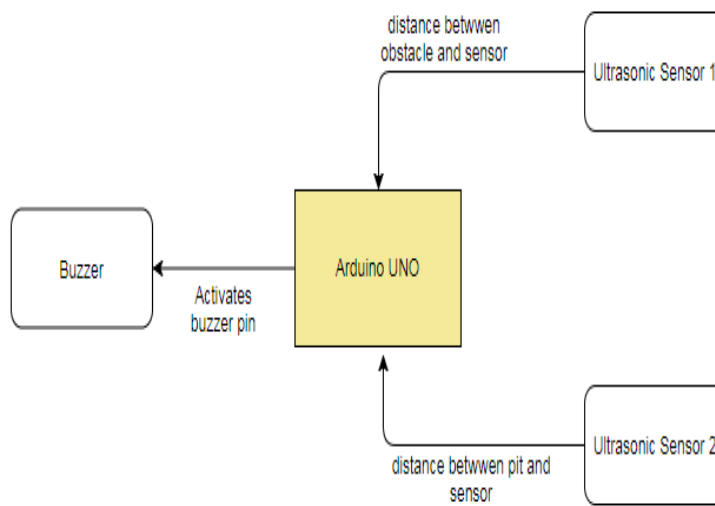
1. Use Case Diagram



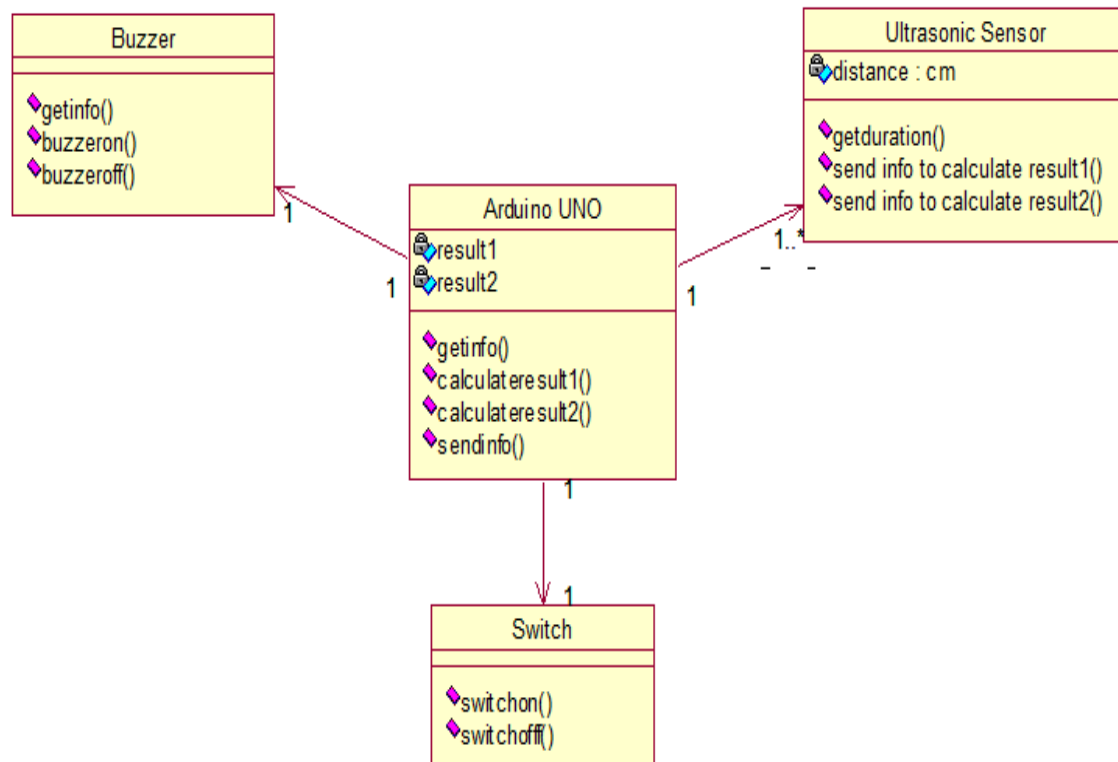
2. State Chart Diagram



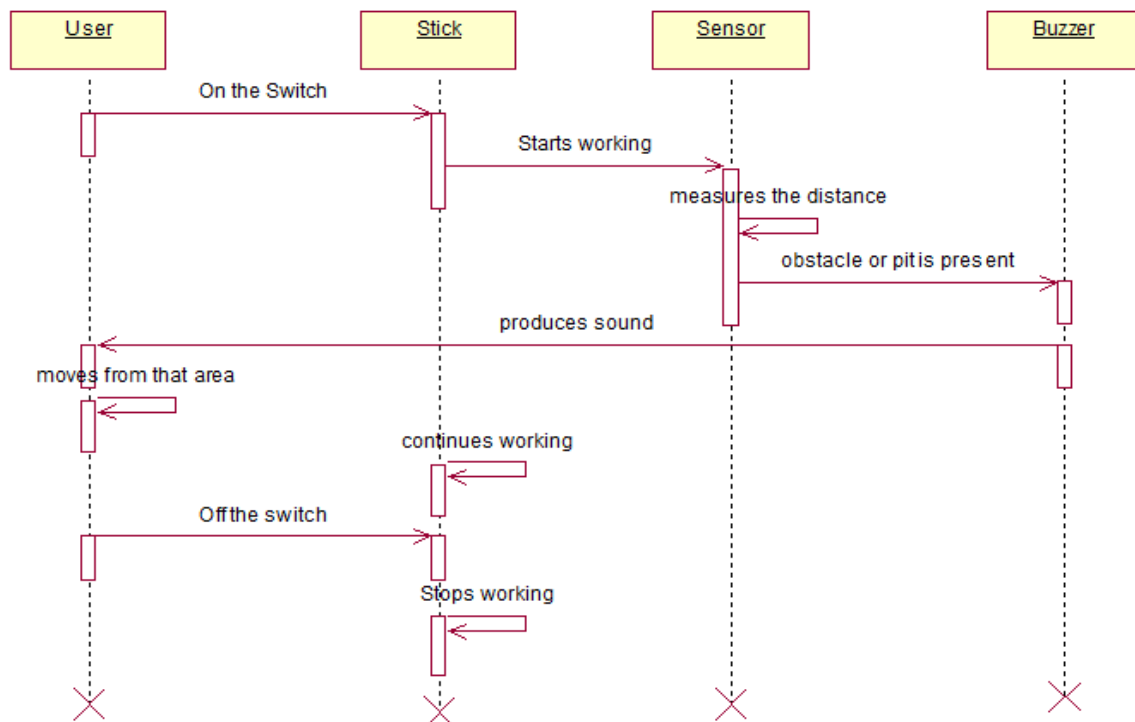
3. Data Flow diagram:



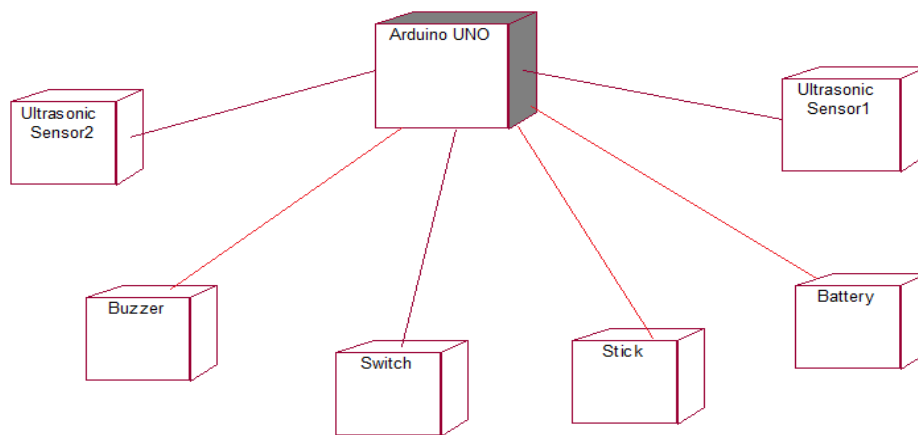
4. Class Diagram:



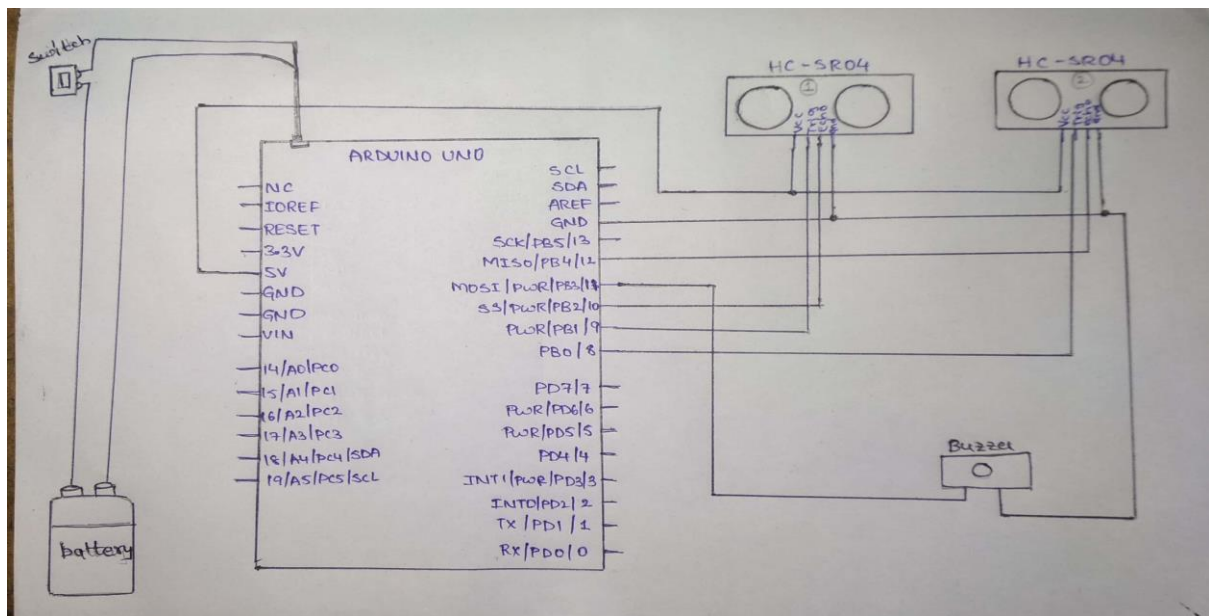
5. Sequence Diagram:



6. Deployment Diagram:



EXPERIMENTAL SETUP:



RESULT:

