



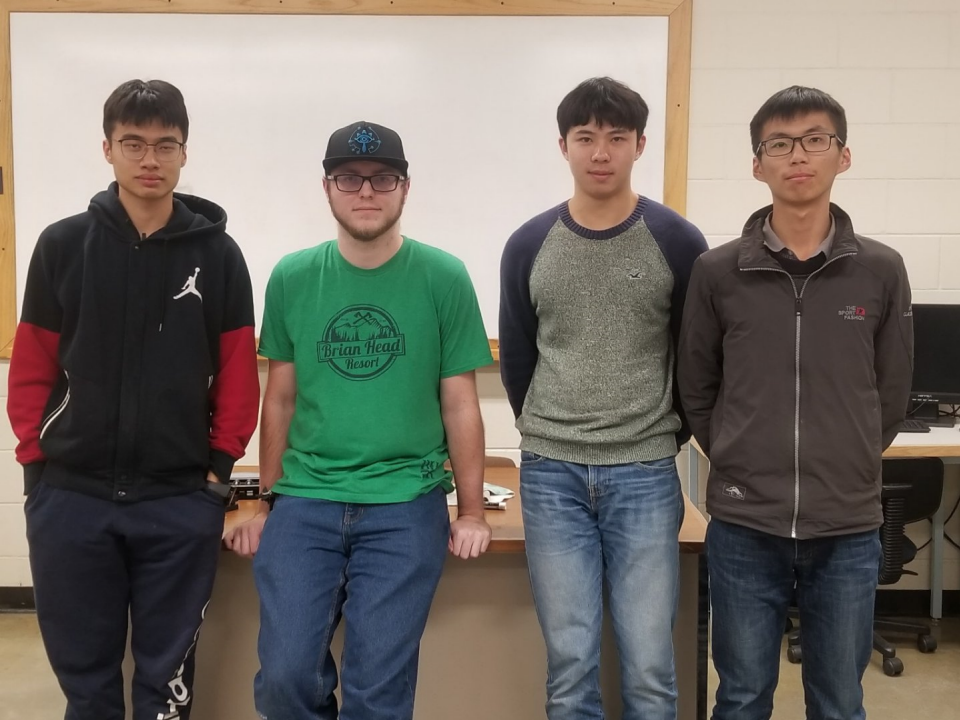
SENIOR CITIZEN MONITOR SYSTEM

TEAM IO-SENIOR

FALL 2018



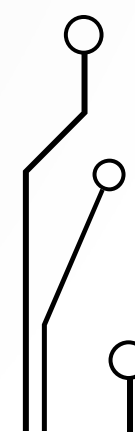
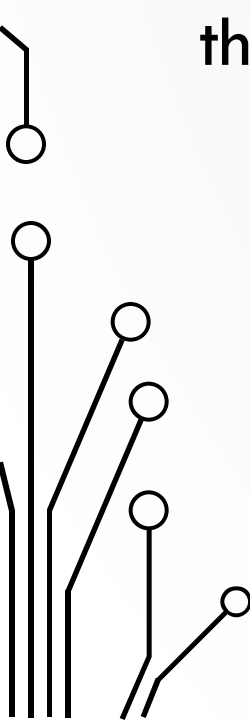
- Instructor: Feng Li
- Client: James Frenzel
- Team members (from left to right):
 - Xiao Liu
 - Jeremy Perhac
 - Yizhou Ye
 - Fanghao Han





OBJECTIVE

This project aims to develop a system to help people remotely monitor an elder family member that lives alone in a non-intrusive style.



VALUE PROPOSITION



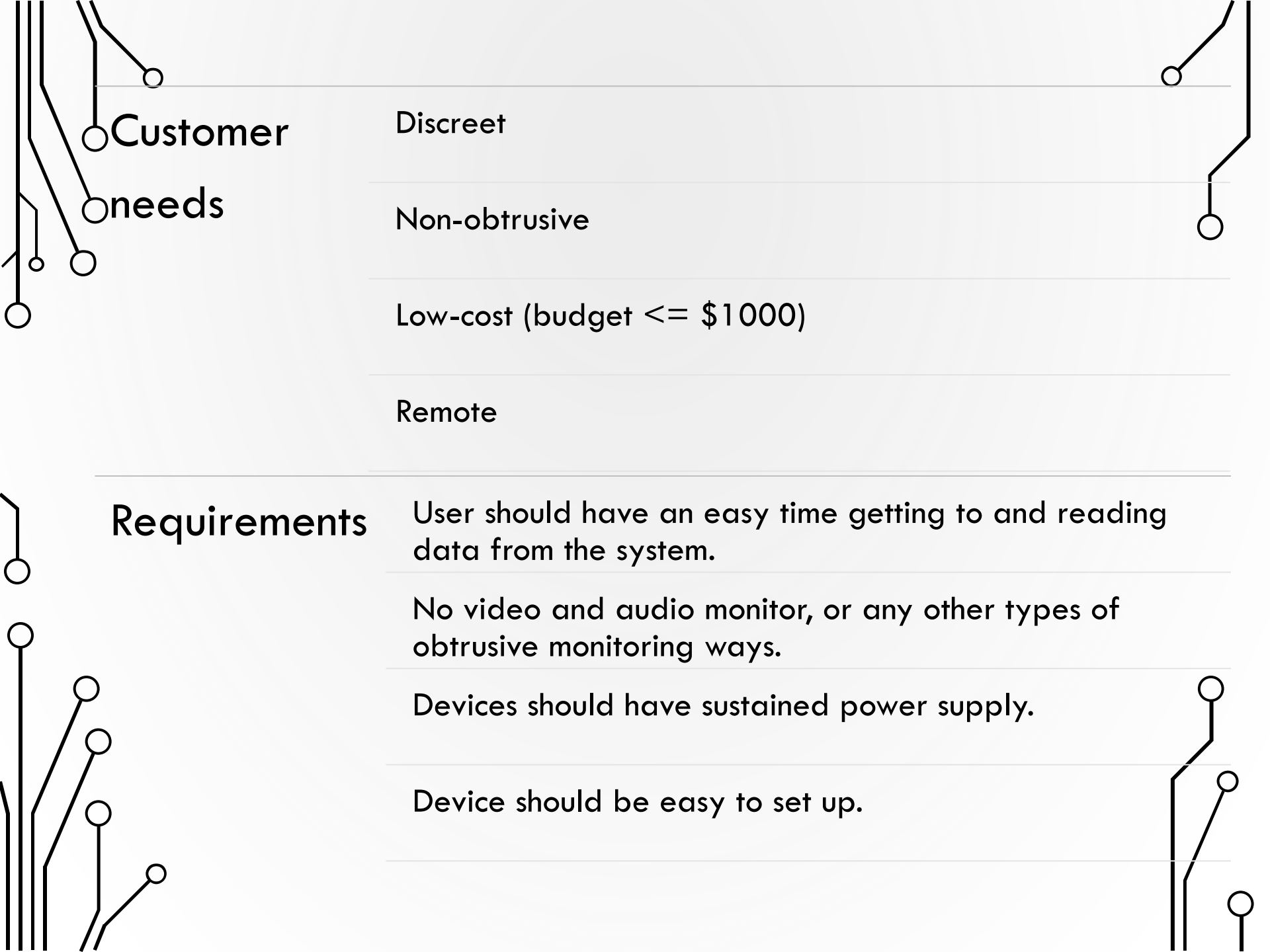
DISCREET

Provide a more comfortable living condition in compared with traditional monitor method.



REMOTE

Help user get the information from webpage or other IM method.



Customer needs

Discreet

Non-obtrusive

Low-cost (budget \leq \$1000)

Remote

Requirements

User should have an easy time getting to and reading data from the system.

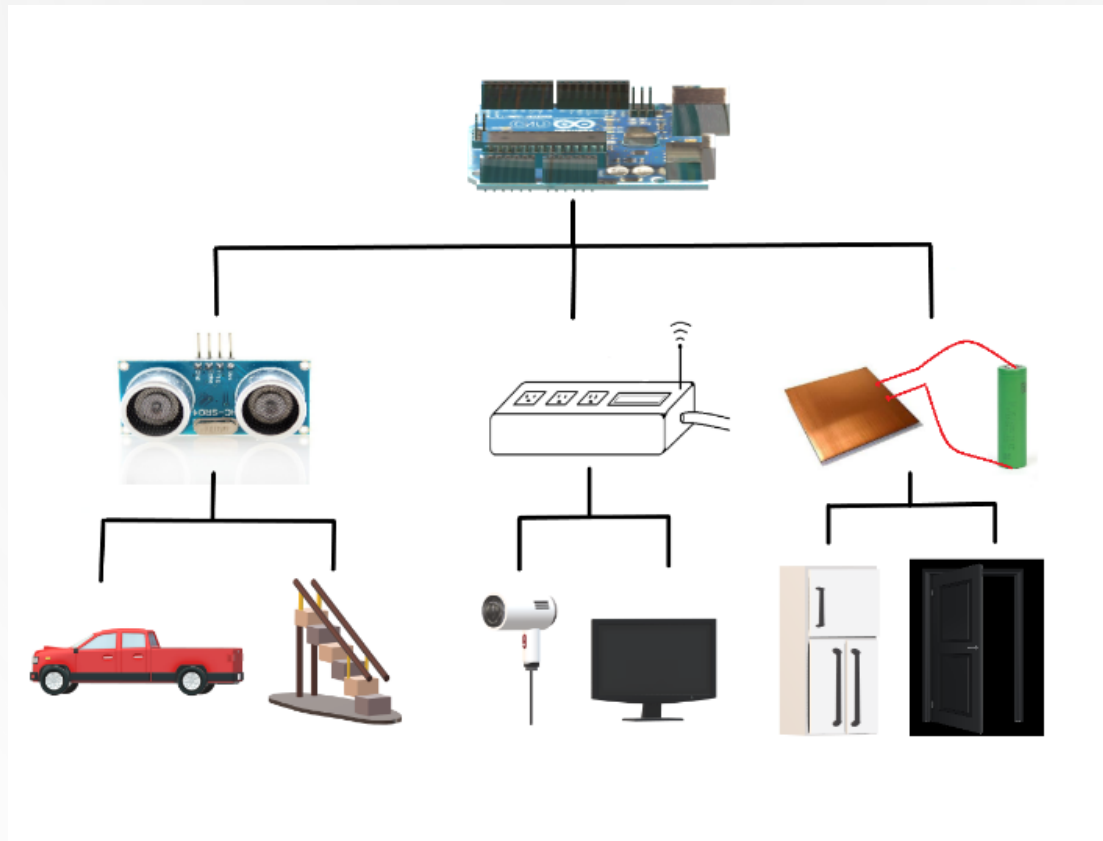
No video and audio monitor, or any other types of obtrusive monitoring ways.

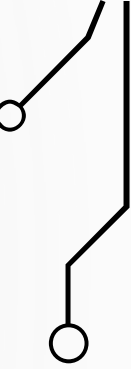
Devices should have sustained power supply.

Device should be easy to set up.

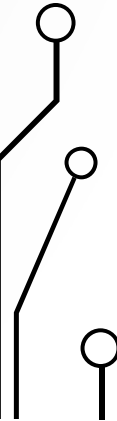
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OVERALL CONCEPT

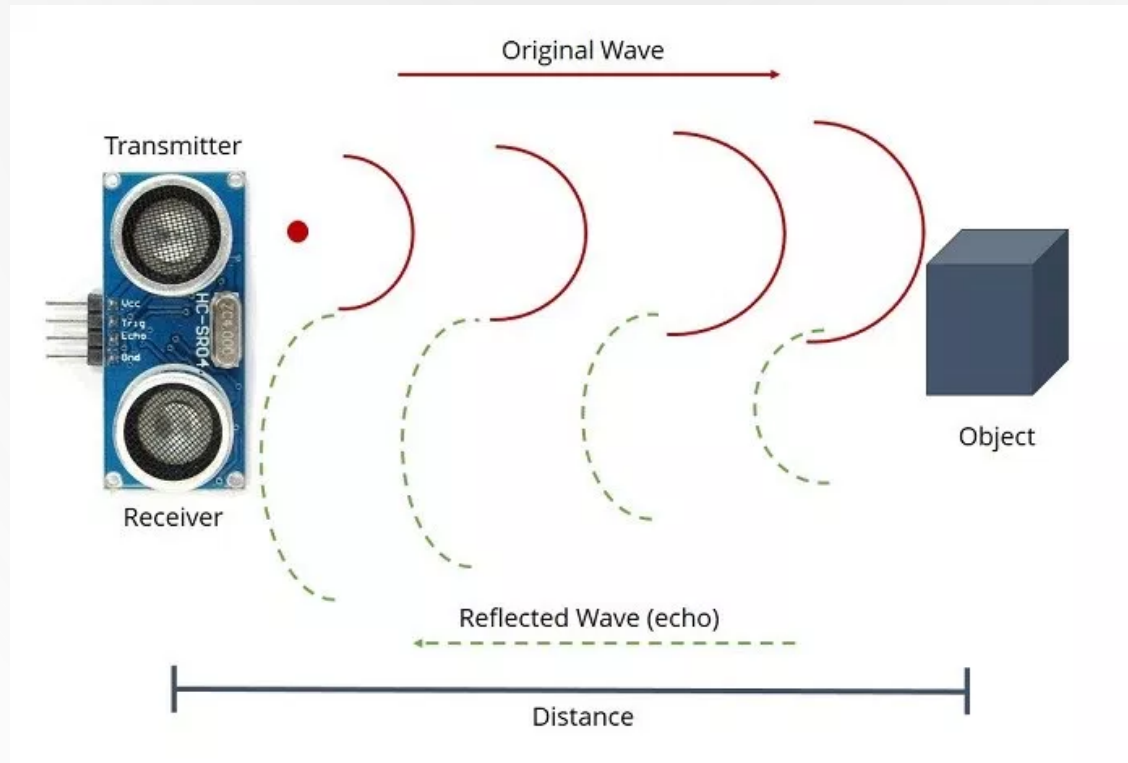




A microcontroller can operate digital devices and interactive objects that can sense and control objects in the physical and digital world.



GARAGE & STAIRS MONITORING - ULTRASONIC SENSOR



OUTLET MONITORING - CURRENT TRANSFORMER

