



### What is EasyHome ?

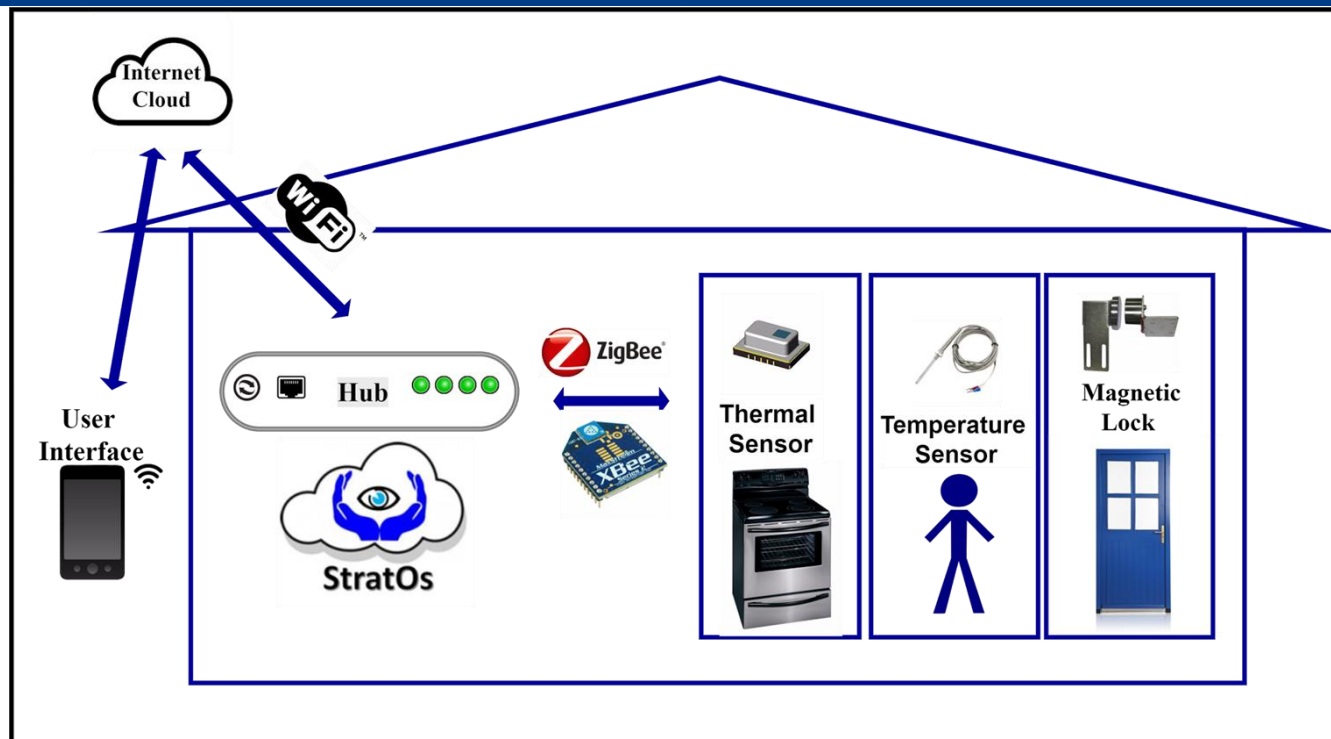
- ❑ Remote control and monitoring of home appliances via audio communication from smartphone
- ❑ Reduce challenges faced at home in:
  - Cooking
  - Locking/unlocking doors
  - Reading body temperature
  - Color identification

### Why EasyHome ?

- ❑ Audio-based platform designed for visually impaired people
- ❑ Provides independence for blind people

### Market

- ❑ Visually impaired people
- ❑ Elderly people
- ❑ Patients with Alzheimer's disease



- ❑ **Hub:** The brain of our platform where data is propagated between end devices using ZigBee communication
- ❑ **Stove state detector:** IR sensor used to detect fluctuations in stove top temperature to detect status of stove burners
- ❑ **Door lock Mechanism:** Magnetic sensor and relay controls the lock on the door. The mechanism is initiated by the user through the mobile application
- ❑ **Body Temperature sensor:** Integrated Circuit detects the body's temperature which will be read out by the application to the user
- ❑ **Mobile App:** Android and iOS app to control end device and provides audio feedback

### Safety:

- ❑ Platform designed to provide on-demand aural feedback in the case of long term heat on stove
- ❑ Provide alerts to the application in the case of home intrusion.

### Challenges for the blind:

- ❑ Inability to know which stovetop burner is on
- ❑ Inability to know if the door is locked or not
- ❑ Inability to detect color on clothes etc.

### Desired Improvements

- ❑ No false/incorrect information is provided to the user
- ❑ Improving the overall rate of communication using the latest communication protocols and devices