

## **PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF RELIANT**

### **IDEATION:**

If a patient needs to take medicine at 6 a.m. In the morning the box will remind him by making sound and also by sending an alarm. If he forgets the actual time of taking medicine and goes to take medicine at any time the medicine box will not open as a servo motor will make the box locked. While it's the right time to take the medicine then the box will make sound and will give notification until the user takes medicine or open the drawer. Also, if the user is outside of the home, then the medicine box will use the Wi-Fi module to send notification to the user's fixed email address. The system contains also a temperature sensor to measure the temperature of the user as temperature can be a vital element of the monitoring patient's health condition. The temperature and taking medicine data will be stored in a server which can be accessed by both patient and doctor so that when it is time the doctor can review the medicine and can change if needed. Also, it will be helpful for doctors to keep updated about the patient's physical health condition.

Before describing the proposed solution, it is essential to present the end-users of the platform and their needs:

- Assisted person: Elderly people, from 65 year and above, with chronic health problems or with frailty due to physical, cognitive or emotional problems, who need formal or informal support when staying at home or in their daily living environment for safety and security.
- Informal caregiver: responsible for providing support on a daily basis to a relative that suffers from a chronic condition and cannot live alone and yet be safe. The service will allow him/her to monitor the relative remotely and respond immediately and effectively in case of an emergency.
- Formal caregiver: responsible for providing systematic daily assistant at home or at a day care center. The service will allow the formal caregiver to coordinate different care recipients at the same time more efficiently as well as respond to different emergency cases faster.