Customer Requirements

* Security and Safety
  + Smoke alarm
    - Triggers emergency routine
      * Acustic alarm
      * Visual guides to the extis
    - Log into DB
      * Location
      * Time
  + Emergency button in each room + logging those events in the system
  + Security cameras for the entrances, parking lot and lifts
* Realtime health montioring
  + Hearth rate monitoring for some patient via wrist band
    - Irregularities will cause an alarm
  + Motion detector
* Engineering service
  + Ticket system for tracking repairings needs and monitor the progress
* Energy and water consumption - and writing to DB
  + Mouisture sensors
  + Temperature sensors
  + Water consumption sensors
  + Sensors for open/close state of windows
  + Current heating settings
  + Detect energy wasting resources (light on time, heating costs, electrical devices)
* Cleanliness and outbuilding services
  + ???
* Resident satisfaction
  + Staff should be able to put in feedback from the patients regarding following topics
    - Cleanliness of the room, temperature, food quality, noise ( from other rooms)
  + No cameras inside private flats
* Technical requirements
  + Web Server handles all the requests and actions via http REST
  + Database as persistent storage
  + Web App
    - Secured by authorization and authentication
    - For mobile devices and control room terminals
  + Rights and roles for – admin, staff, manager
  + Tracking patients separately from room so in case they change the room the patient related data will be moved as well
  + Machine learning algorithms to detect irregularities in the measured data
  + GUI for desktop and mobile