EMERGENCY QUEST

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SYSTEM CREATED FOR IMPROVING THE QUALITY OF LIVE OF :

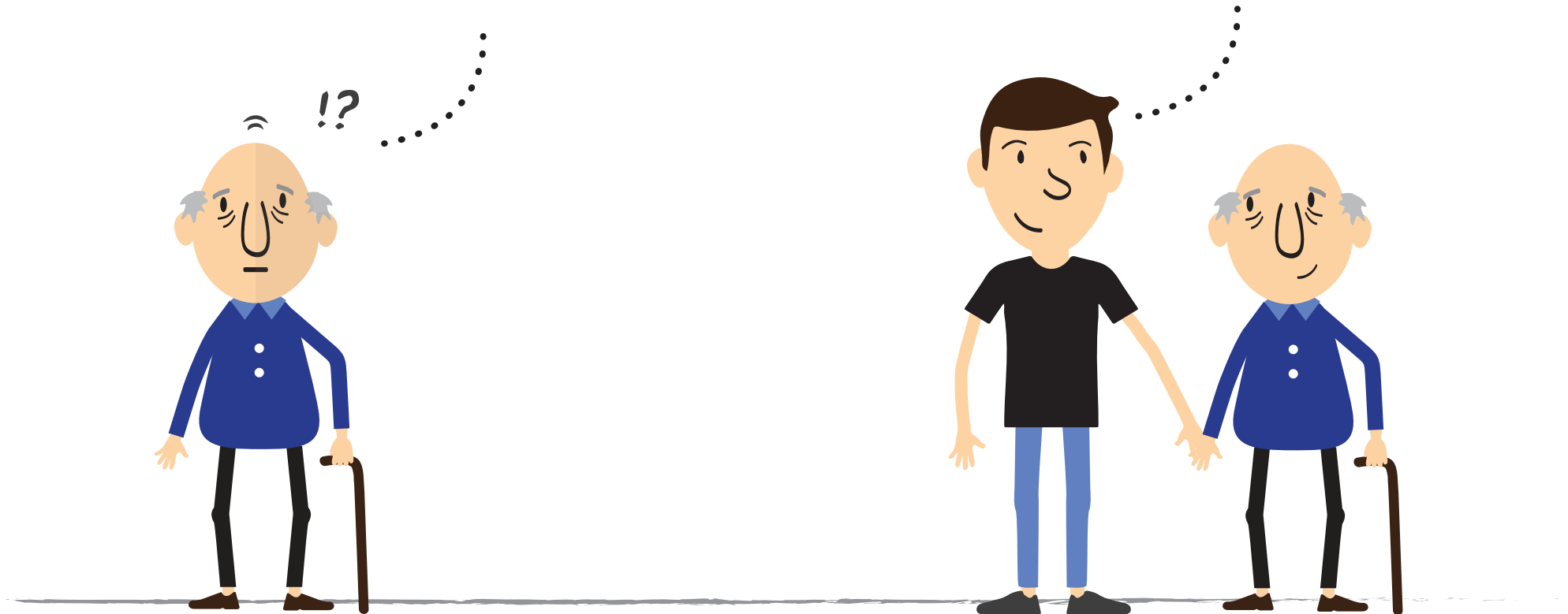People with

DEMENTIA / ALZHEIMER

&

their

CAREGIVERS

MONITOR HEALTH.

In case of agitation ·········• Play music

Change Illumination ·········• Relax the patient

CARRYING OUT EVERYDAY ACTIVITIES

Movement in dangerous places ·······• 🔊 pre-recorded messages ·······• Alert the patient to go back

THE OVEN
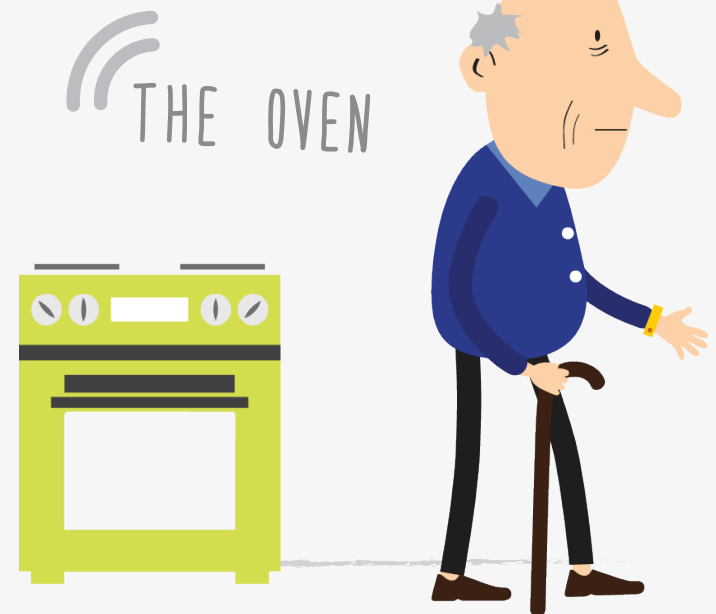
ENHANCE SAFETY

Patient leaves a defined area ....• send notification to app ....• Notify the caregiver
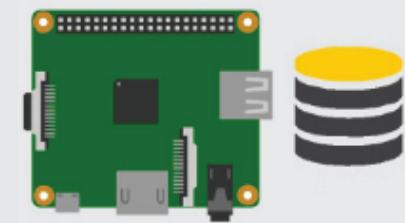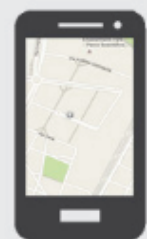
IMPROVE PATIENT LIFE

by

smart house

monitoring bracelet

room station

main server

mobile App

SENSING

GPS location

motion and
agitation

REASONING

Differentiate between

agitation
problems

motion
problems

ACTING

pre-recorded
messages

modify the
environment

INTERACTING

APP accesible
for both users

•track patient movement
•store sensor data

ROOM STATION

Single board computer connected to the Internet via Wi-Fi

Motion sensor

Bracelet: heart rate and respiration sensor

Patient's smartphone to track his position
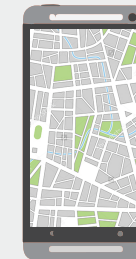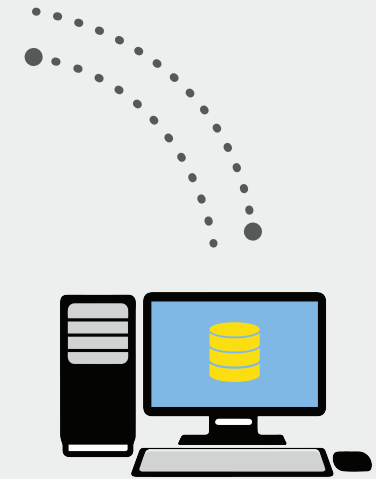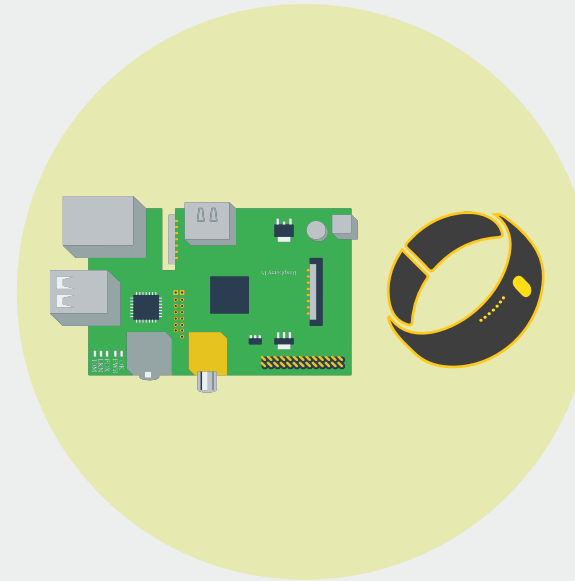
Active speaker

Controllable lights

Station, sensors and actuators

process sensed data

process GPS patient's position

change the environment
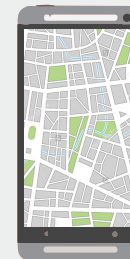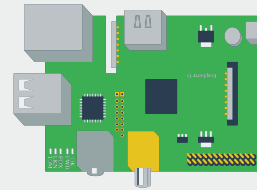
MAIN SERVER

computer
connected to the
Internet via LAN.

store previous user data

send notifications to the
app

receive and store
appointments

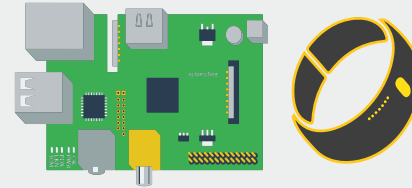process notifications

provide a map within the
mobile app

MOBILE APP

HARDWARE

USER'S CELLPHONE

used to access to the system front-end from the mobile application.
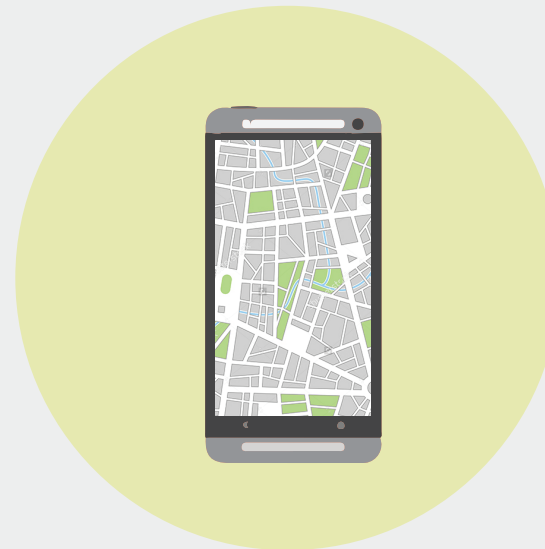
SOFTWARE

create a new user to start using it

show patient's current position

set preferences

receive notification messages

patient history

set appointments with playing messages

THANK YOU
FOR YOUR ATTENTION.