Basic description

- Use case: to measure belly fat level/ keep track
- Targeted group: People who wish to regularly monitor their belly fat level.

(pro-users can register under one of our registered doctors to provide you medical advice)

• What is included: BFR device, BFR app (For the patients-users), BFR app (For the

doctors/ fitness trainers)

About the device:

compact device

size: 80*60*30

Uses NIR technology

Long-lasting battery power (more details in hardware specification)



After taking measurements from the device everything else is happening from the app. You can monitor your,

- 1) Belly fat level
- 2) Daily / weekly/ monthly progress
- 3) Fat level forecast (based on your history) (Pro version)
- 4) Doctor's medical assistance (Pro version)
- 5) 24/7 Technical support
- 6) Updatable

About the App (for the doctors/ fitness trainers):

The registered doctors can log in to the BFR doctor's profile and can review their patient's history and reports sent by the BFT apps. They can provide medical assistance if required.

Basic Business module

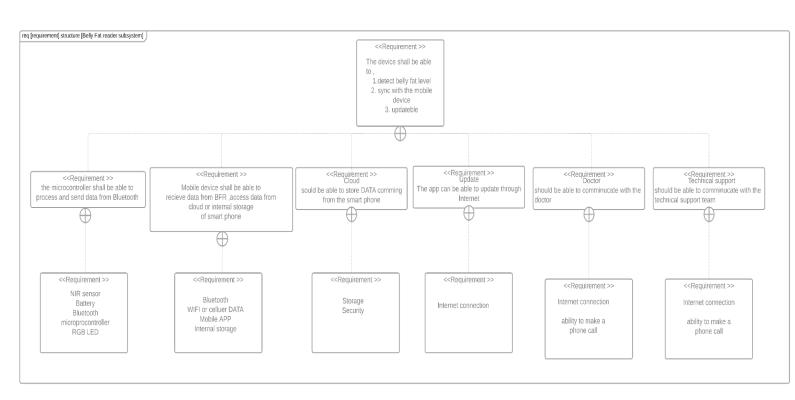
The device itself cost 100€

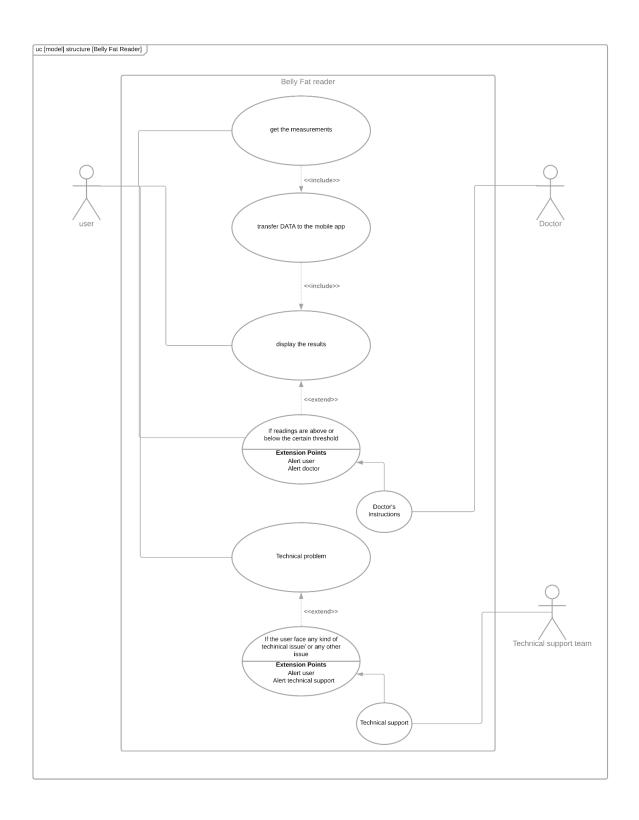
- 1. Basic version (app): comes free with the device
- 2. Pro version (app): users can buy in order to gain BFT readers' full potential.

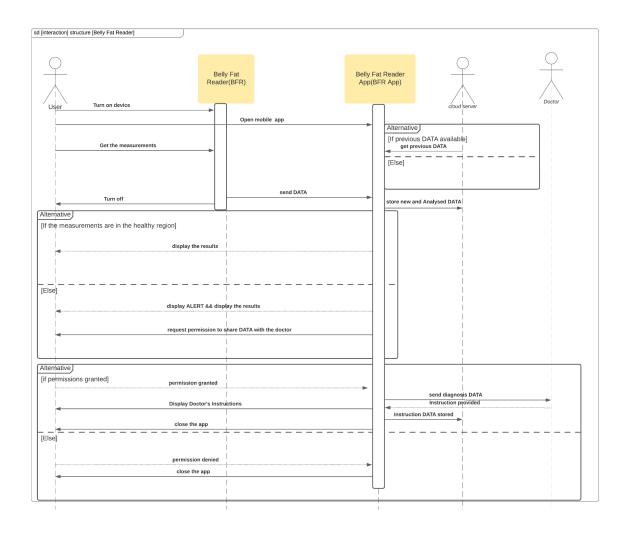
A yearly subscription of 50€: Doctors' medical assistance, belly fat forecast, free device repair, etc...

3. Registered doctors/ fitness trainers can earn money through medical assistance to the patients.

Models

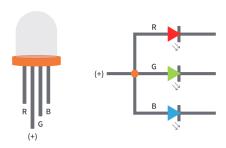






Hardware specification

RGB LED: Only one RGB LED is enough to indicate Turning on, Turning off, pairing with a smartphone, taking the measurements, and indicating if the battery is low when installing a software update functions.



Blue (blinking)	(device turned on), entered pairing mode
Blue(steady)	Connected to the smartphone via Bluetooth (normal state)
Green(blinking), for 3s	Measurement taking, will go back to the steady blue state. That means the measurement has been taken, synced with the app and went back to the `normal state'
Red (blinking)	Battery low
Red (steady)	Device is charging
Green (steady)	Fully charged
yellow(blinking)	Device is updating

Push-button: Push-button will be needed to turn on/off the device, to take the measurements



ESP32 microcontroller: The reason to use this specific microcontroller is it is so cheap, it has a built-in Bluetooth Modular



NIR Sensor (Qwiic AS726X): Low cost, uses I²C protocol, Low gate count, only need two pins to implement



Battery: LiPo Battery: No need for a voltage regulator, micro USB port to charge the battery



User interface



You can see this UI after taking your measurement.



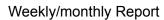
If The user's belly fat level is high.

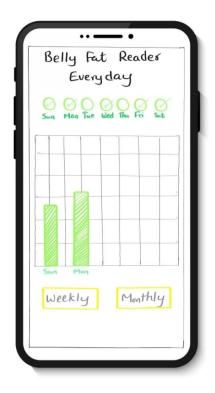


The user can contact his/her doctor











Device is updating