QCDSE

Quality :

I have to create a healthy mirror where we can find some features that can allow the user to measure and take care of their health.

F0 = mandatory
F1 = important
F2 = secondary

FUNCTION	CRITERIA	FLEXIBILITY
Mirror		F0
switch on	button / screen / light	F0
switch off	button / screen / light	F0
set time	button / screen	F1
breathalyzer	button / captor / LED	F2
thermometer	button / laser / screen	F0
pulse measure	button / captor / screen	F1
glucose meter	button / measure device / screen	F2
connectivity with phone	button / screen	F1
Application		F1
installation	app store / google play / internet	F0
opening	application / icon	F0
profil	icon	F0
settings	icon	F1
data graph	icon	F1
call a doctor	icon / phone interaction	F2

Cost :

1. Software
   The of the software isn't take in consideration because (the cost electricity isn't countable for this project)
   Concerning the application, it depends on the database and where I put the application to allow the user to download it.

2. Hardware and Material
   The cost is estimated between 150€ and 250€ to build one device.

3. Human and time
   The investment in the project is estimated to be 4 years with interrupted moments with me as the main actor of the project but also some student and professional people.

Deadline :

PROJECT PERIOD	CONTENT	DELIVERY DATE	STEP
first year	find the idea	2023/02	done
	write the functional specification	2023/09	done
second year	write the technical specification	2024/07	in progress
third year	develop the product	2024/09	to do
	first test phase	2025/01	to do
	first presentation	2025/06	to do
fourth year	correct bugs and update	2025/10	to do
	second test phase	2026/07	to do
fifth year	business model	2026/10	to do
	presentation	2027/06	to do

Safety :

For the first step, data aren't saved. For the next release, data has to be saved on the application of the user. For that, the transmission between the mirror and the phone need to be secured/encrypted and also in the application, according to the RGPD laws.

Environment :

For development:
Computer → Mac
Application → Visual Studio Code or Arduino IDE
Language → Arduino

For user:
Computer → Mirror