Assignment Solution:

Designing Inclusive User Interfaces

Chosen User Group: Users with hearing impairments.

Digital Product: Seizure Detection App

Analysis of Cognitive and Perceptual Characteristics:

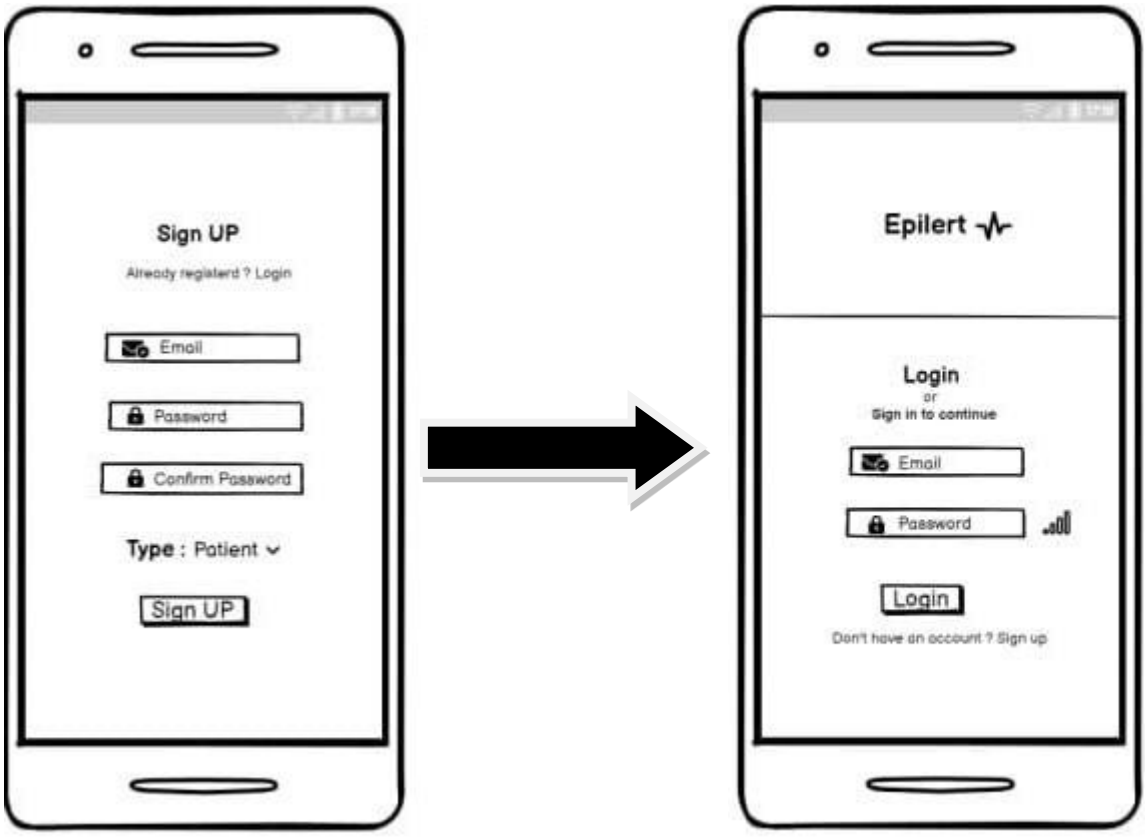
- Users with hearing impairments may have difficulty perceiving auditory cues or alarms.
- They may rely heavily on visual information and tactile feedback.
- Considerations we include visual alerts, text-based notifications, and alternative communication methods.

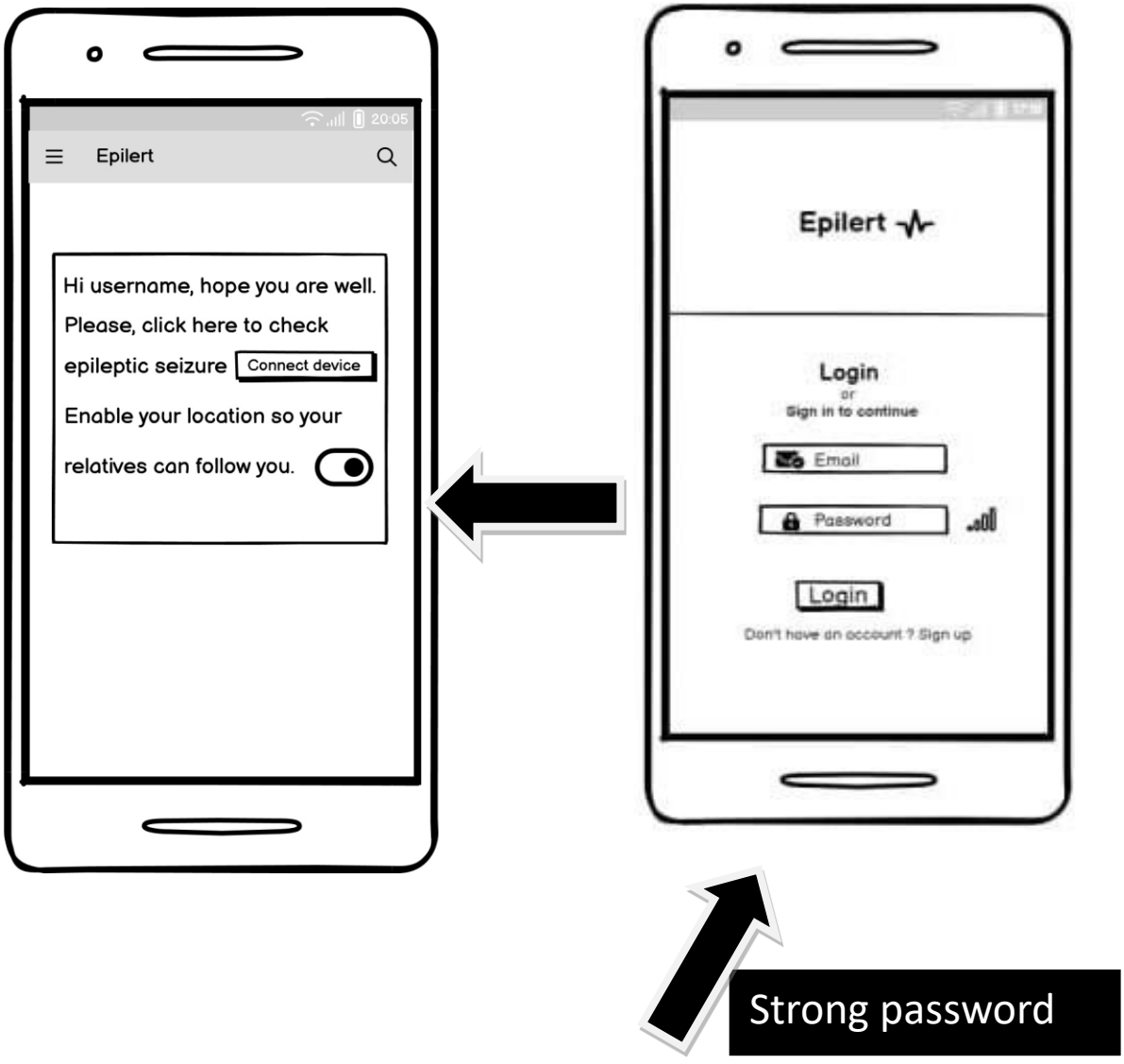
Design Concept:

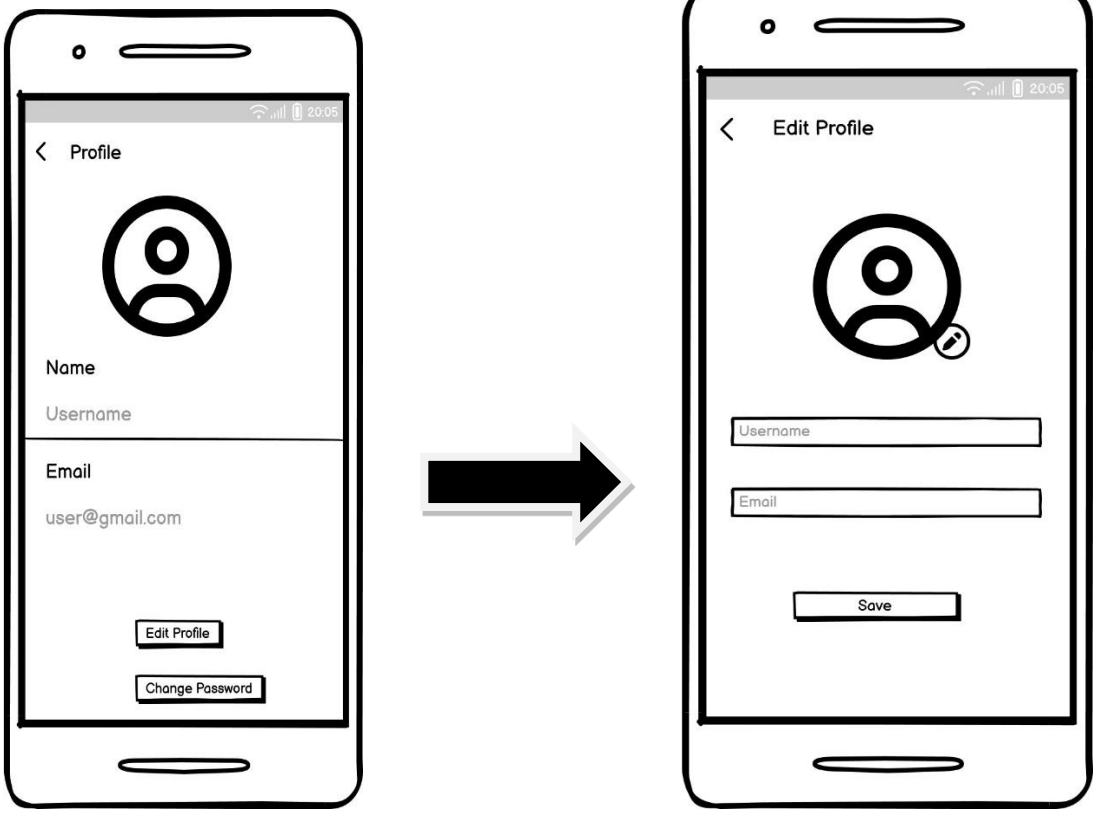
- Redesigning the seizure detection app to prioritize accessibility for users with hearing impairments.
- Implementing visual and tactile feedback mechanisms to supplement auditory alerts.
- Providing customizable alert settings and alternative communication options.

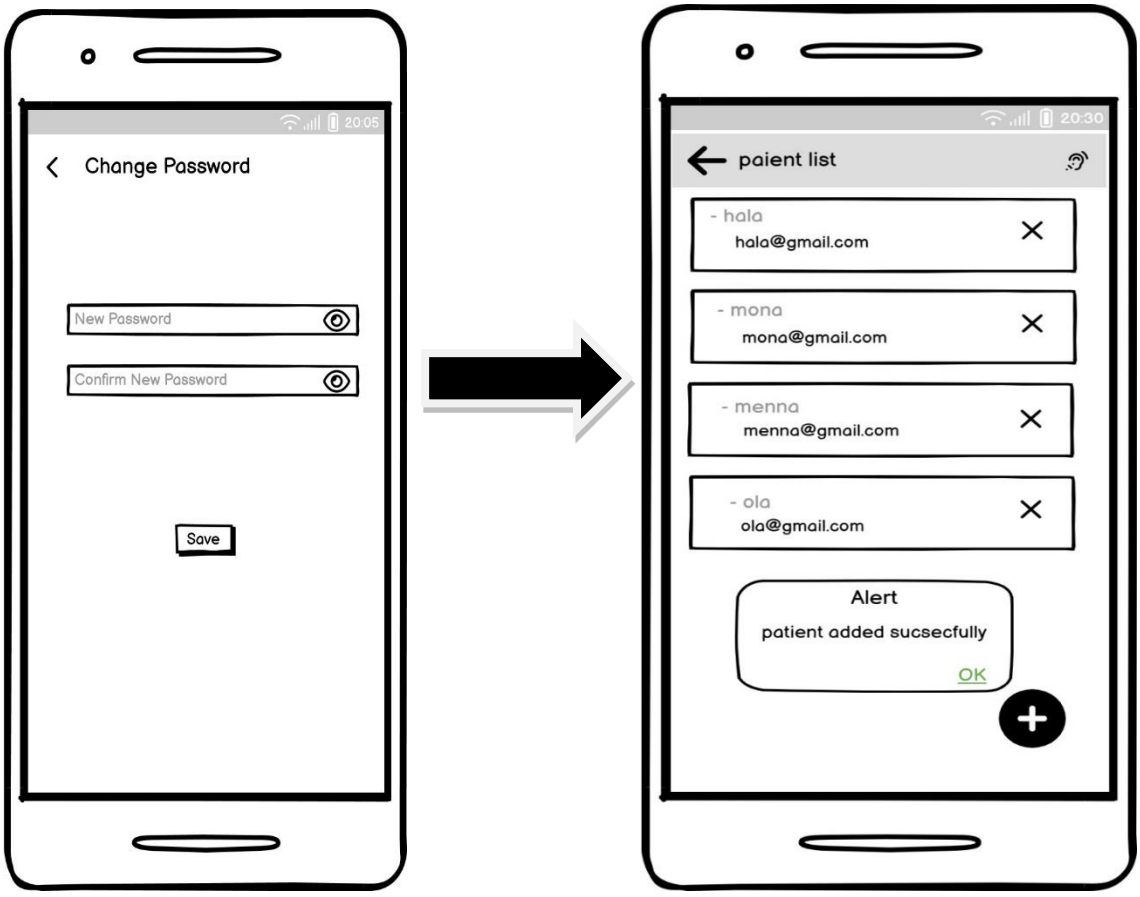
Design Prototype:

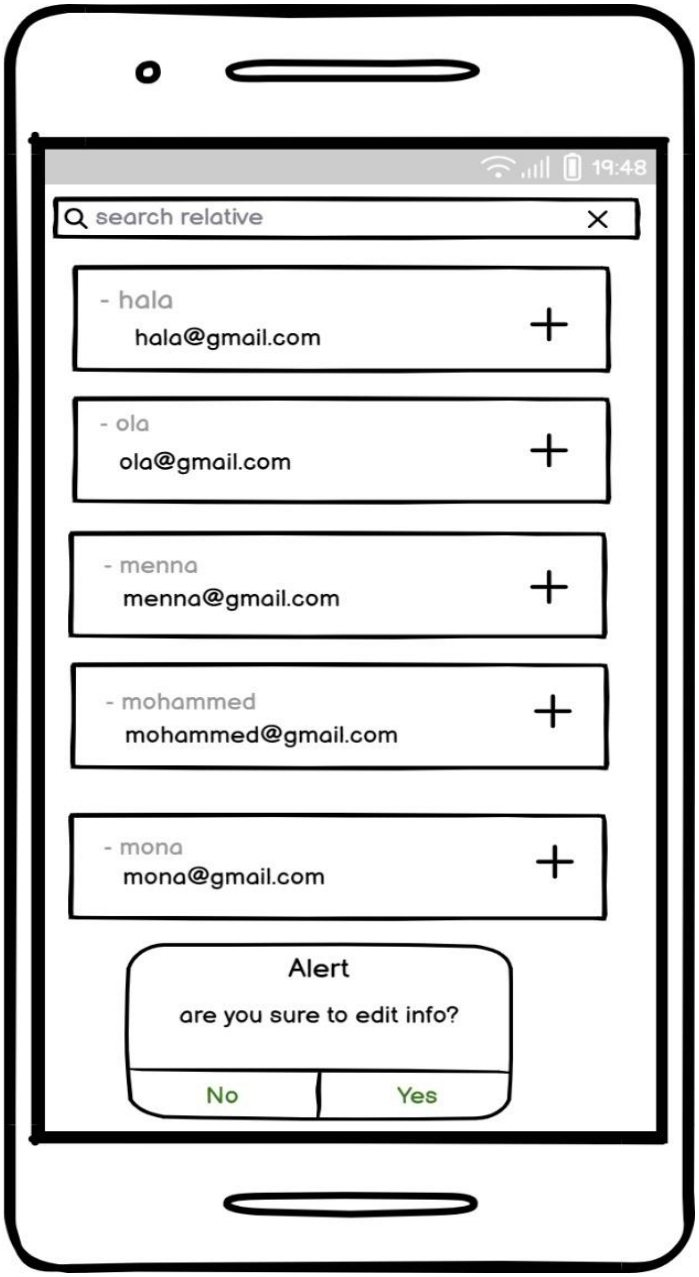
1- Sign up page.
2- Login page.
3- Registration page.
4- Edit profile.
5- Change password page.
6- Home page.
7- Advice page.
8- Patient list page.
9- Relative list page.
10- About us page.
11- Feedback page.


Sign UP
Already registerd ? Login
Email
Password
Confirm Password
Type : Patient
Sign UP
Epilert
Login
or
Sign in to continue
Email
Password
Login
Don't have an account ? Sign up


20:05
Epilert
Hi username, hope you are well.
Please, click here to check
epileptic seizure
Connect device
Enable your location so your
relatives can follow you.
Epilert
Login
or
Sign in to continue
Email
Password
Login
Don't have an account ? Sign up
Strong password

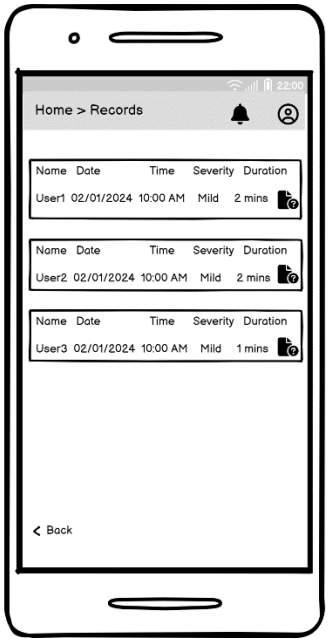

20:05
Profile
Name
Username
Email
user@gmail.com
Edit Profile
Change Password
20:05
Edit Profile
Username
Email
Save


20:05
Change Password
New Password
Confirm New Password
Save
20:30
paient list
- hala
hala@gmail.com
- mona
mona@gmail.com
- menna
menna@gmail.com
- ola
ola@gmail.com
Alert
patient added sucsecfully
OK

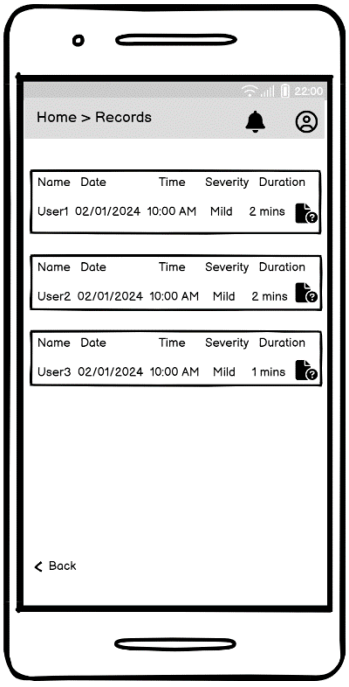

19:48
search relative
- hala
hala@gmail.com
- ola
ola@gmail.com
- menna
menna@gmail.com
- mohammed
mohammed@gmail.com
- mona
mona@gmail.com
Alert
are you sure to edit info?
No
Yes

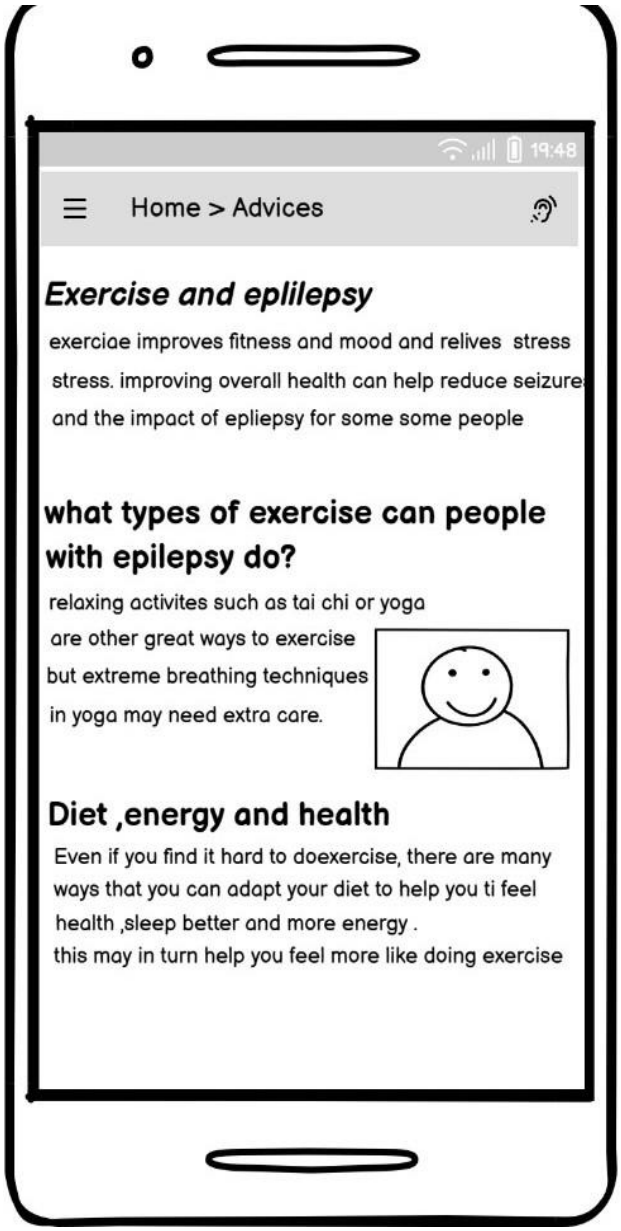

20:22
relative list
- hala
hala@gmail.com
- mona
mona@gmail.com
- menna
menna@gmail.com
- ola
ola@gmail.com
Alert
relative added sucsecfully
OK

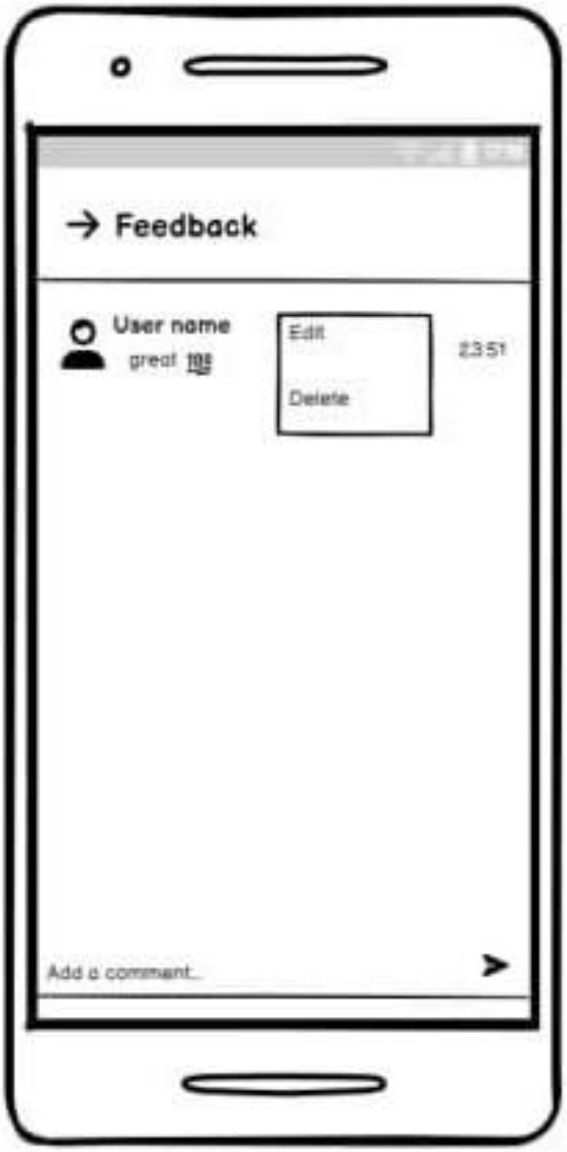
patient records for relative



patient records

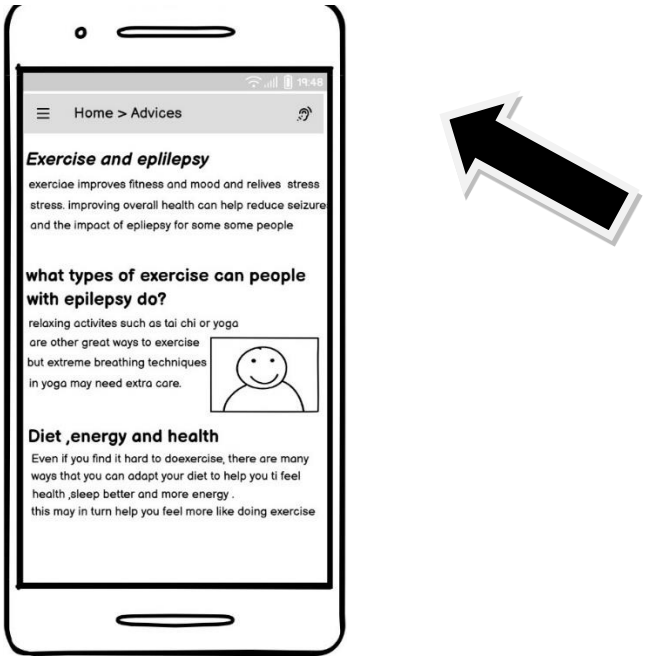



19:48
Home > Advices
Exercise and eplilepsy
exercise improves fitness and mood and relives stress
stress. improving overall health can help reduce seizure
and the impact of epliepsy for some some people
what types of exercise can people with epilepsy do?
relaxing activites such as tai chi or yoga
are other great ways to exercise
but extreme breathing techniques
in yoga may need extra care.
Diet ,energy and health
Even if you find it hard to doexercise, there are many
ways that you can adapt your diet to help you ti feel
health ,sleep better and more energy .
this may in turn help you feel more like doing exercise

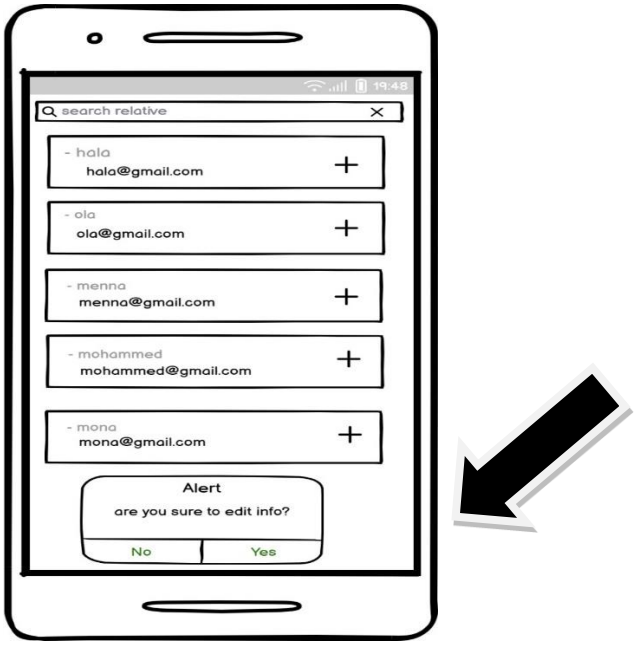

Feedback
User name
great
Edit
Delete
23:51
Add a comment...

"Some examples in the prototype have been applied to the 8 golden rules:"

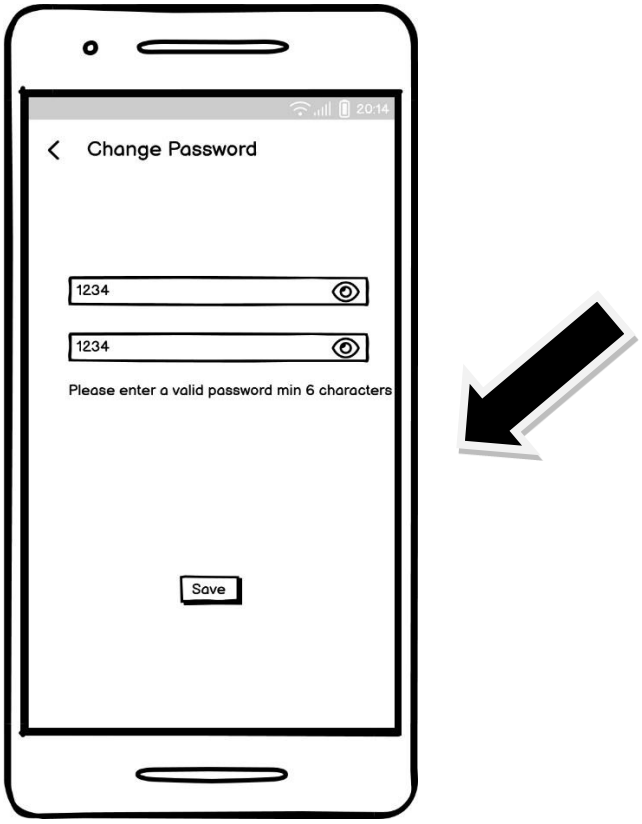
1- Strive for consistency & offer informative feedback.



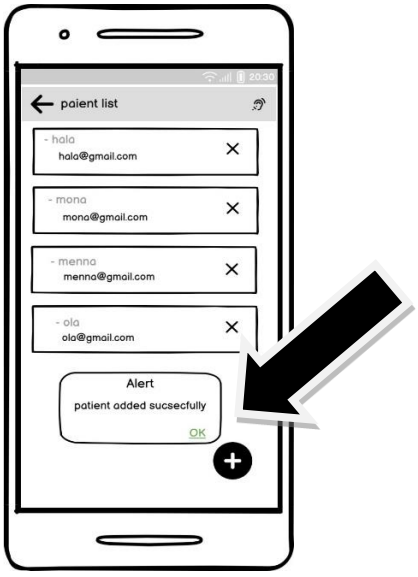
2- Design dialogs to yield closure.



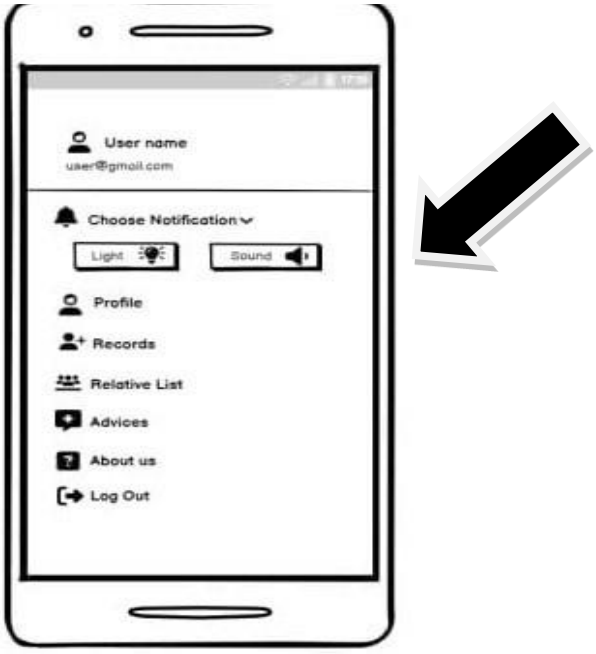
3- Prevent errors.



4- Permit easy reversal of actions.



5- Keep users in control.



Design Rationale:

- Visual and tactile feedback mechanisms supplement auditory alerts to ensure users with hearing impairments can effectively receive important notifications.
- Customizable alert settings and alternative communication methods provide flexibility to accommodate individual preferences and needs.
- Clear, concise text explanations and visual representations enhance understanding and usability for users with hearing impairments.

Reflection:

- Redesigning the seizure detection app to prioritize accessibility for users with hearing impairments required careful consideration of visual and tactile feedback mechanisms.
- This assignment highlighted the importance of designing inclusive user interfaces that accommodate diverse user needs and preferences.
- Moving forward, exploring additional features such as customizable vibration patterns and alternative communication methods can further enhance the accessibility and usability of the app for users with hearing impairments.