



UNIVERSITÀ DEGLI STUDI
DI GENOVA

Headache Android Application

— Well being technology project —

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Context of Project

Objectif:

- Primary headaches such as migraines are so popular among world wide people, One of the best ways to get relief is to keep track of potential triggers, symptoms, and effective treatment methods.
- Mobile applications show great potential for the assessment and registration of information regarding headaches

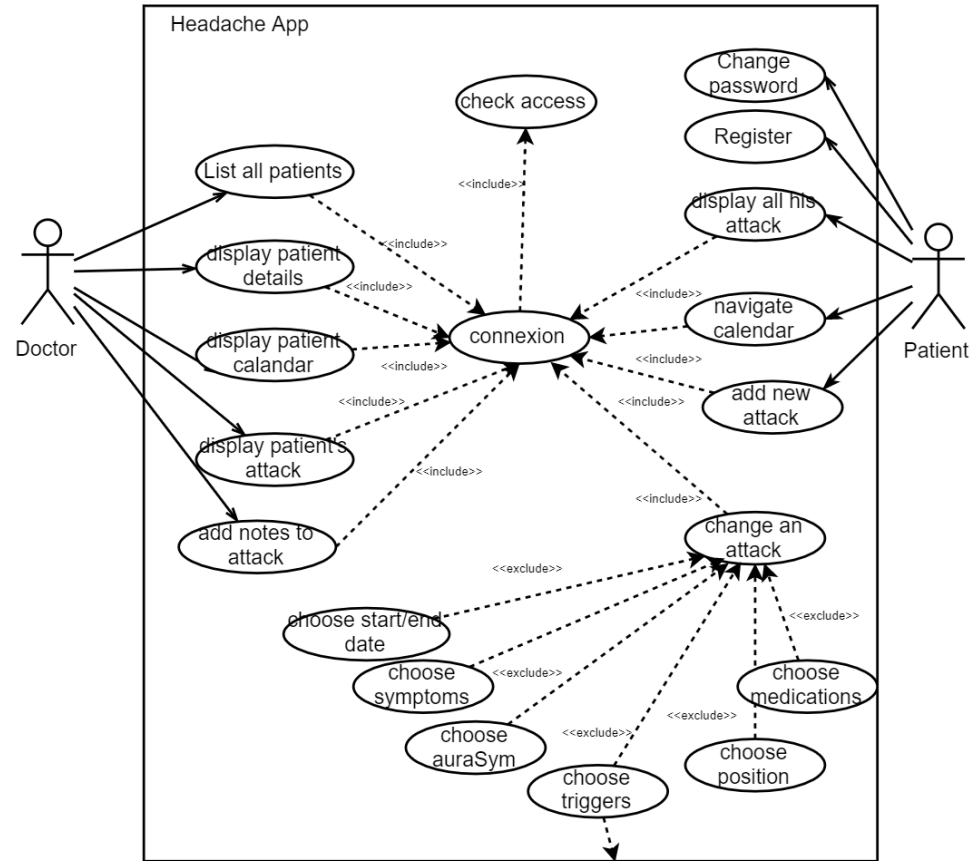
=> Developing an application that allows migraine patients to maintain a headache diary.

=> The goal is to provide a simple, quick and intuitive way for patients to communicate to their doctors their well-being.

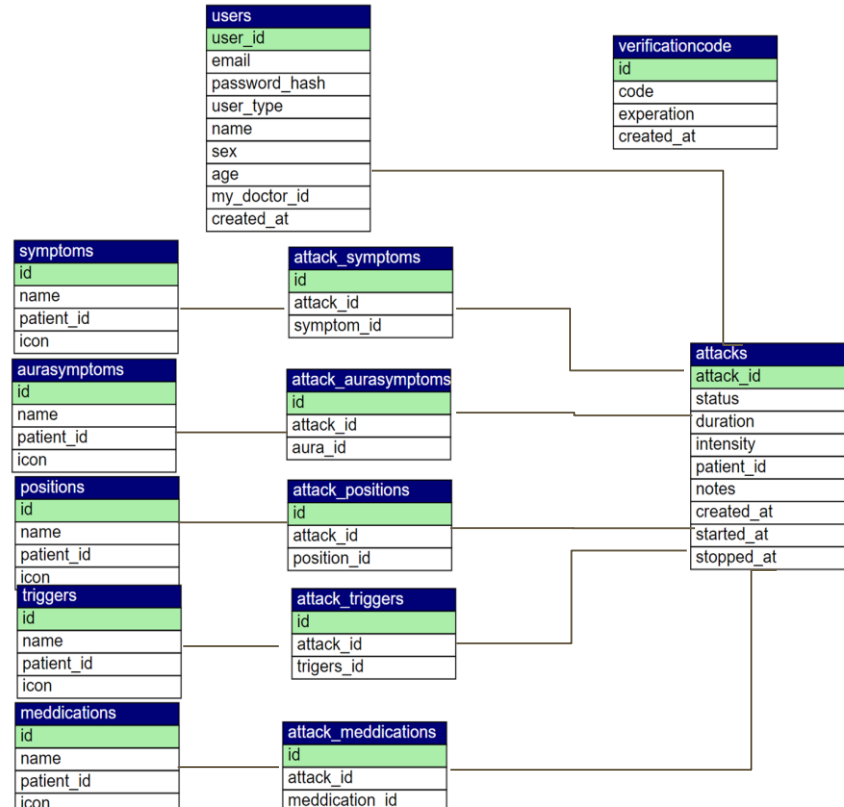
Specifications

Doctor	<ol style="list-style-type: none">1. Simple connexion2. Search a patient by ID3. Visualize headache diary for a specific patient4. Visualize more information for a selected attack of a specific patient.
Patient	<ol style="list-style-type: none">1. Fill in a digital headache diary2. Keep track of headache triggers3. Indicate symptoms such as aura4. Select the site of pain5. Indicate intensity of headache6. Record lifestyle choices such as sleeping and eating habits.

Use Case



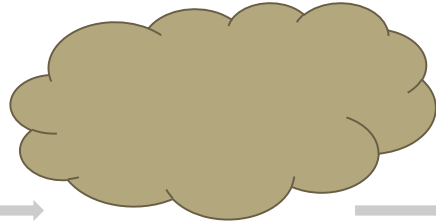
DataBase



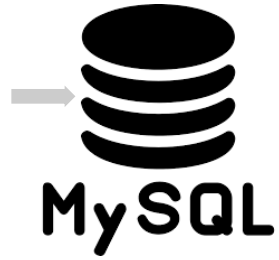
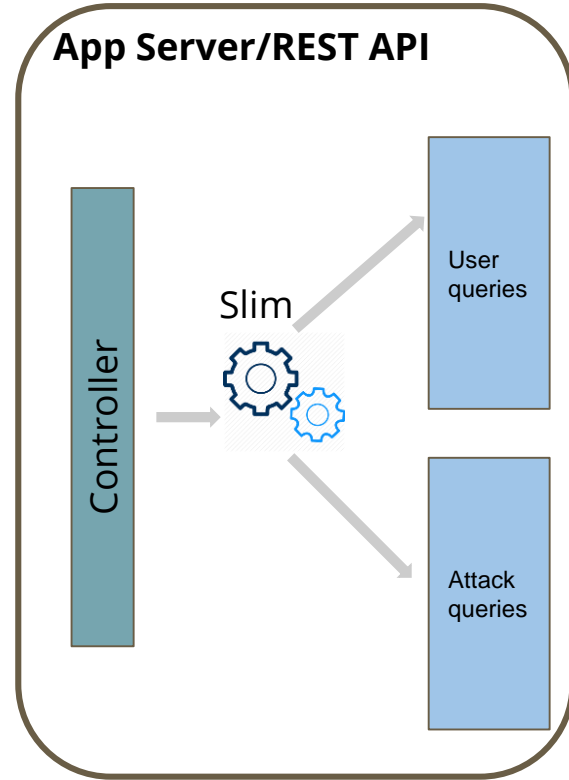
Architecture



Mobile Device



Internet



MySQL

Technologies



Slim
a micro framework for PHP



Advanced REST client



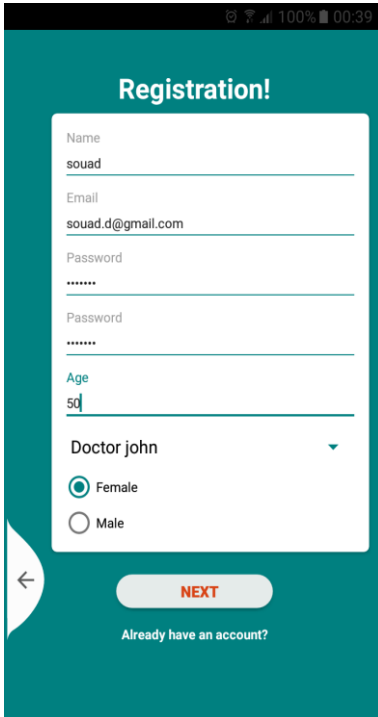
Android Studio



Retrofit

Realisation | Authentication

→ Register



A mobile app registration form with a teal background. The form is titled "Registration!" and contains fields for Name (soud), Email (soud.d@gmail.com), Password (masked with dots), Age (5d), and a dropdown menu for Doctor john. There are also radio buttons for Female and Male. A "NEXT" button is at the bottom, and a link "Already have an account?" is below it.

Name
soud

Email
soud.d@gmail.com

Password

Age
5d

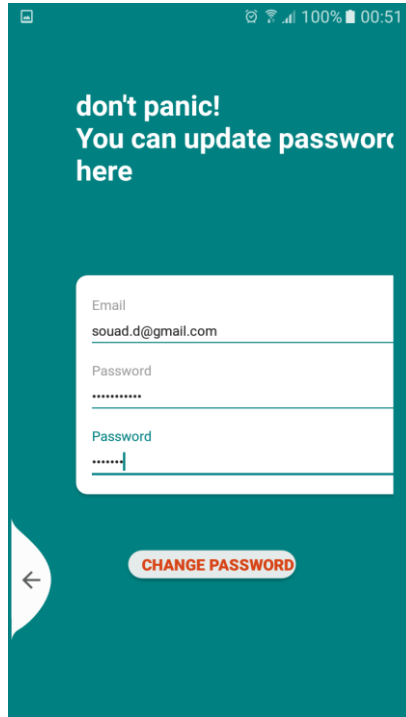
Doctor john ▼

☒ Female
☐ Male

[NEXT](#)

[Already have an account?](#)

→ Forgot password



A mobile app "Forgot password" screen with a teal background. It features a heading "don't panic! You can update password here" and a form with fields for Email (soud.d@gmail.com) and Password (masked with dots). A "CHANGE PASSWORD" button is at the bottom.

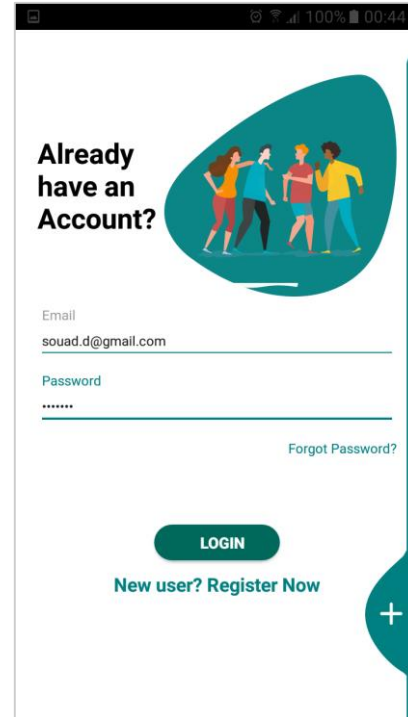
don't panic!
You can update password here

Email
soud.d@gmail.com

Password

[CHANGE PASSWORD](#)

→ Login



A mobile app login screen with a white background and teal accents. It features a heading "Already have an Account?" with an illustration of four people. Below is a form with fields for Email (soud.d@gmail.com) and Password (masked with dots). A "LOGIN" button is at the bottom, and a link "New user? Register Now" is below it.

Already have an Account?

Email
soud.d@gmail.com

Password

[LOGIN](#)

[New user? Register Now](#)

Realisation | Patient

DURATION 45

SYMPTOMS Nausea, Photophobia

AURA SYMPTOMS Sensitive symptoms, Aphasia

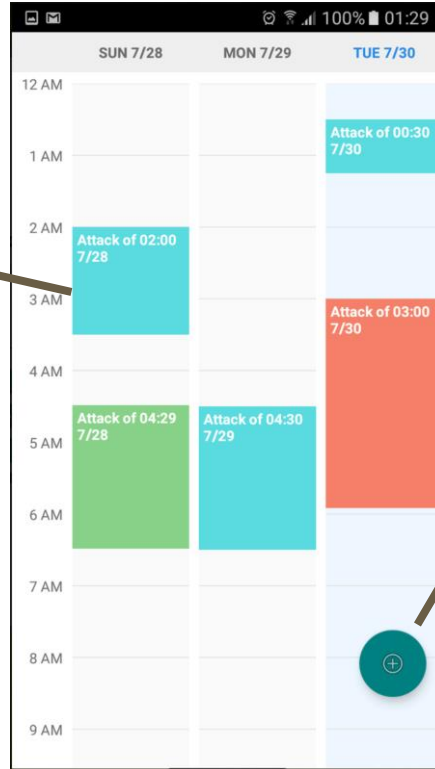
TRIGGERS Fatigue, Fasting

POSITION frontMR, frontML, backMR

INTENSITY Moderate

MEDICATION Pain killers

→ Attack details



→ Calendar

Start Time

0:30 **SELECT TIME**

30-7-2019 **SELECT DATE**

End Time

0:30 **SELECT TIME**


30-7-2019 **SELECT DATE**


→ New Attack


Realisation | Patient


→ Update attack Aura Symptoms


Aura Symptoms !!

 Visual distribution

 Sensitive symptoms


 Aphasia


 Weakness


 Tingling near eyes


→ Update attack symptoms


Symptoms ?

 Nausea

 Photophobia


 Phonophobia


 Anxiety

 Mood alterations


→ Update attack time


Start Time

0:30 

30-7-2019 

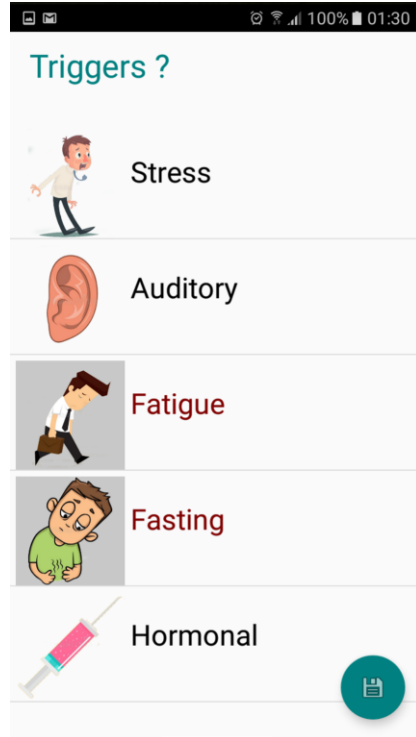
End Time

0:30 

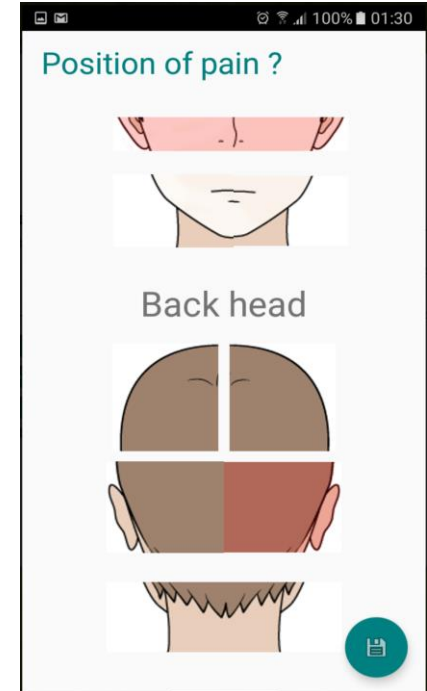
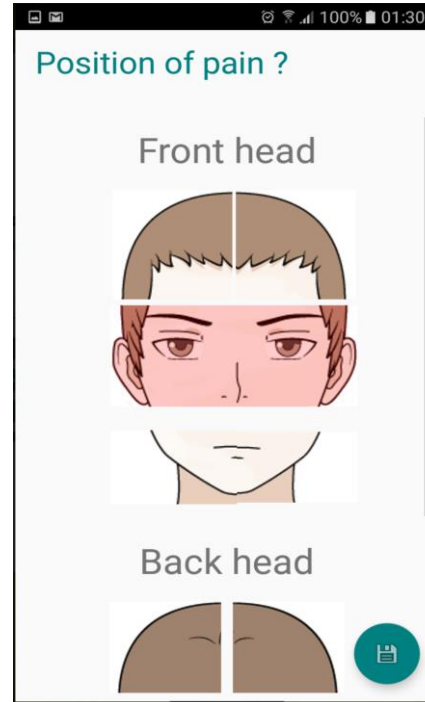
30-7-2019 

Realisation | Patient

→ Update attack triggers

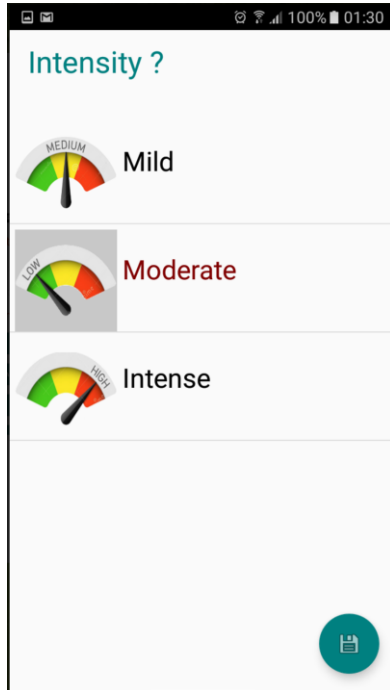


→ Update attack position



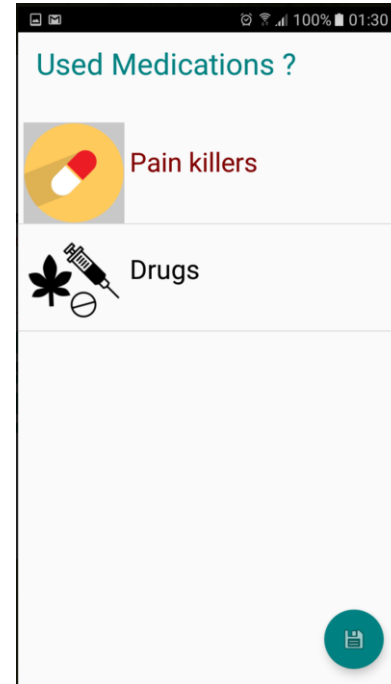
Realisation | Patient

→ Update attack Intensity



The screenshot shows a mobile app interface with a status bar at the top displaying icons for signal, battery, and time (01:30). The title "Intensity ?" is in teal. Below it are three horizontal buttons, each with a semi-circular gauge icon and a text label: "Mild" (with a "MEDIUM" gauge), "Moderate" (with a "LOW" gauge), and "Intense" (with a "HIGH" gauge). The "Moderate" button is highlighted with a grey background. A teal circular save icon is at the bottom right.

→ Update attack medications

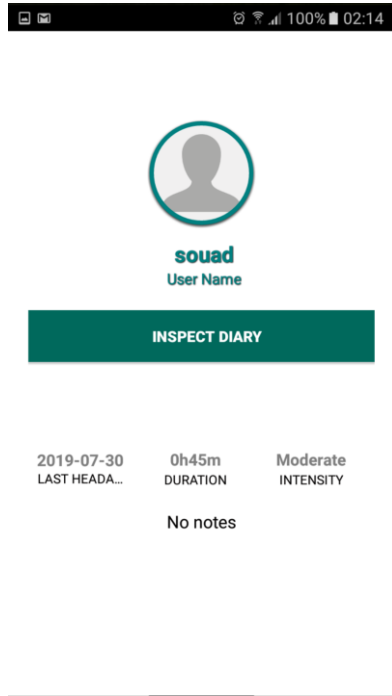


The screenshot shows a mobile app interface with a status bar at the top displaying icons for signal, battery, and time (01:30). The title "Used Medications ?" is in teal. Below it are two horizontal buttons, each with an icon and a text label: "Pain killers" (with a pill icon) and "Drugs" (with a syringe and leaf icon). The "Pain killers" button is highlighted with a yellow background. A teal circular save icon is at the bottom right.

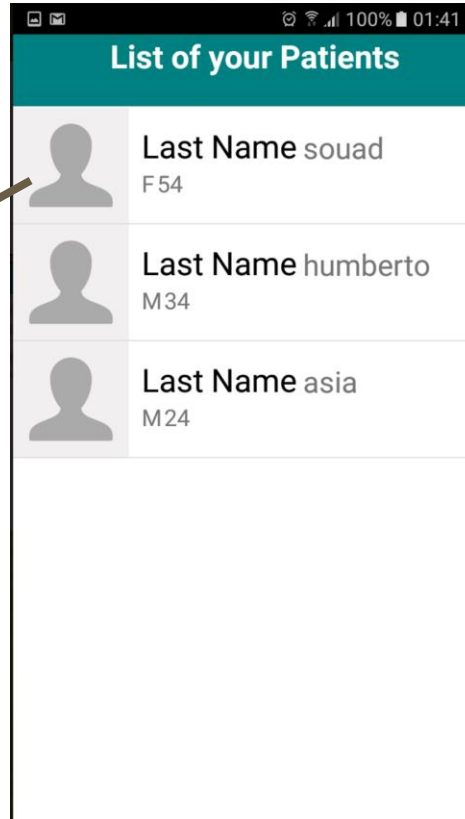
Demonstration | Doctor

→ List patients

→ Patient details

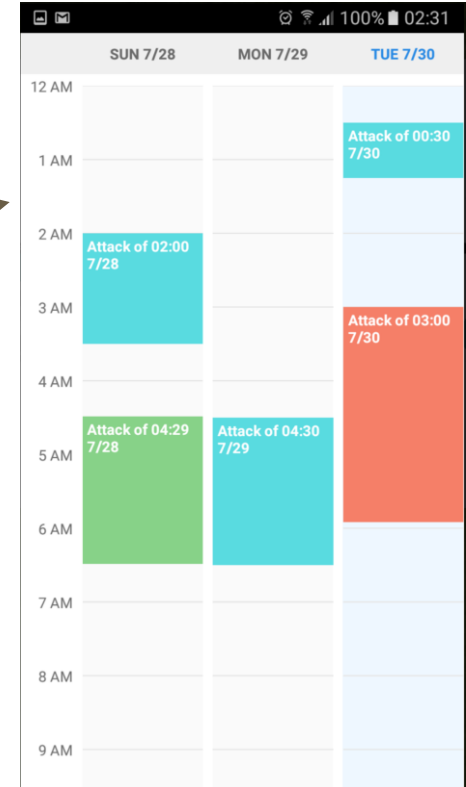


Long
click



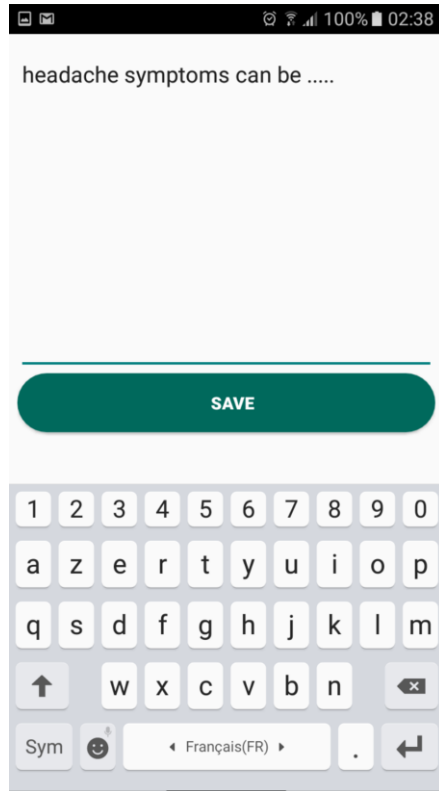
click

Patient calendar



Demonstration | Doctor

→ Add notes

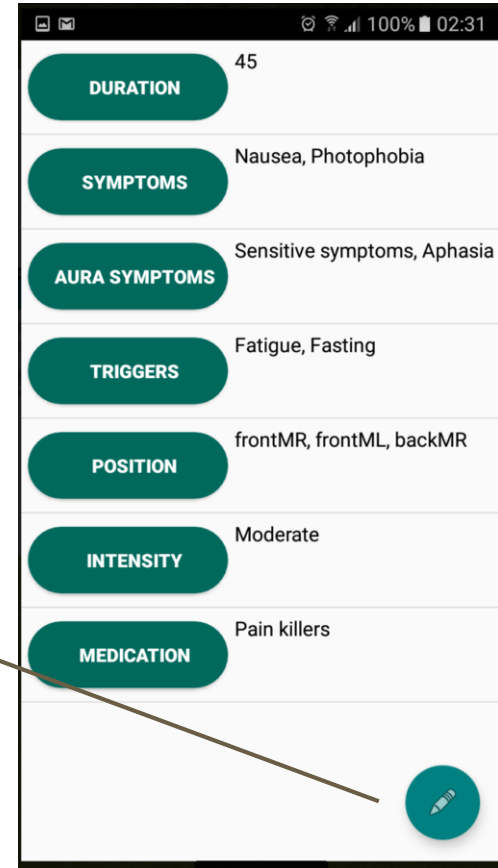


headache symptoms can be

SAVE

1 2 3 4 5 6 7 8 9 0
a z e r t y u i o p
q s d f g h j k l m
↑ w x c v b n ↵
Sym 🌐 Français(FR) . ↵

→ Display attack details



45

DURATION

Nausea, Photophobia

SYMPTOMS

Sensitive symptoms, Aphasia

AURA SYMPTOMS

Fatigue, Fasting

TRIGGERS

frontMR, frontML, backMR

POSITION

Moderate

INTENSITY

Pain killers

MEDICATION

✎



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