

# Documentation

This document describes headache android application, the main part of this project and how to run it on the server? And then how to install it on your phone.

The project is composed of the following files:

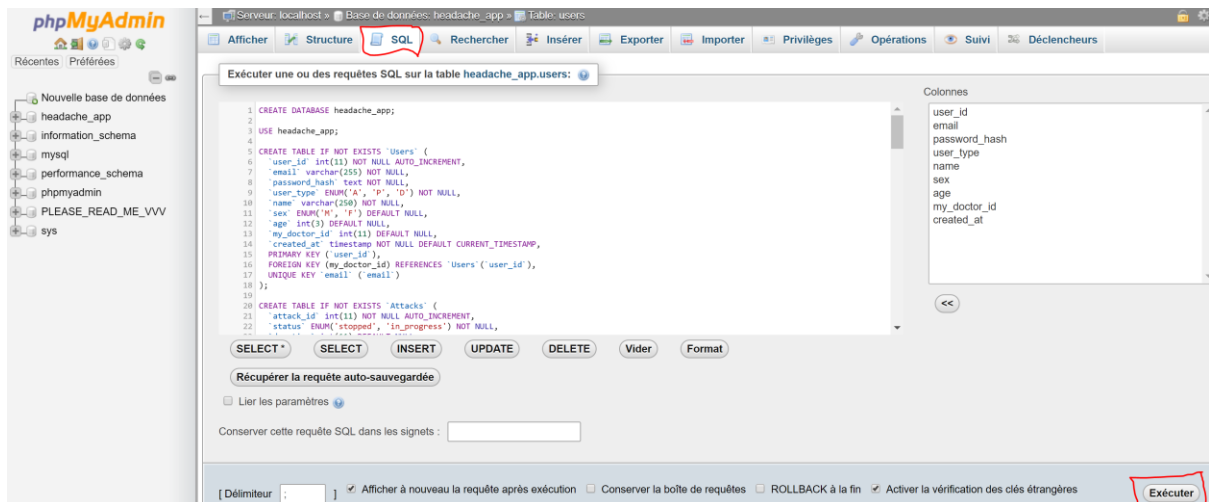
	Headache_template	30/07/2019 10:37	File folder	
	REST_API	30/07/2019 10:36	File folder	
	project.pptx	30/07/2019 11:07	Microsoft PowerP...	5,171 KB
	README.docx	30/07/2019 17:57	Microsoft Word D...	0 KB

The database and web server are already created in university server. But if you want to start the project from scratch in other server, this is the steps to follow:

## I. Database Creation:

First of all we connected to database phpMyAdmin, and we create our database using the file “database\_headache.sql” in the path “REST\_API\data”.

We copy the content of this file in SQL console, and we execute:



Then we check the creation of our database and its tables:

phpMyAdmin

Récentes Préférences

Nouvelle base de données

headache\_app

Nouvelle table

attacks

attack\_AuraSymptoms

attack\_Meddications

attack\_Positions

attack\_Symptoms

attack\_Triggers

auraSymptoms

meddications

positions

symptoms

triggers

users

verificationCode

information\_schema

Serveur: localhost » Base de données: headache\_app

Structure SQL Rechercher Requête Exporter Importer Opérations

Table	Action
attacks	Afficher Structure Rechercher Insérer Vider Supprimer
attack_AuraSymptoms	Afficher Structure Rechercher Insérer Vider Supprimer
attack_Meddications	Afficher Structure Rechercher Insérer Vider Supprimer
attack_Positions	Afficher Structure Rechercher Insérer Vider Supprimer
attack_Symptoms	Afficher Structure Rechercher Insérer Vider Supprimer
attack_Triggers	Afficher Structure Rechercher Insérer Vider Supprimer
auraSymptoms	Afficher Structure Rechercher Insérer Vider Supprimer
meddications	Afficher Structure Rechercher Insérer Vider Supprimer
positions	Afficher Structure Rechercher Insérer Vider Supprimer
symptoms	Afficher Structure Rechercher Insérer Vider Supprimer
triggers	Afficher Structure Rechercher Insérer Vider Supprimer
users	Afficher Structure Rechercher Insérer Vider Supprimer
verificationCode	Afficher Structure Rechercher Insérer Vider Supprimer

And we should check the content of the following tables also:

- **Medications table:**

```
SELECT * FROM `meddications`
```

☐ Tout afficher | Nombre de lignes : 25 | Filtrer les lignes: Chercher dans cette table

Trier sur l'index: Aucune

+ Options

				id	name	patient_id
<input type="checkbox"/>	Modifier	Copier	Effacer	1	Pain killers	NULL
<input type="checkbox"/>	Modifier	Copier	Effacer	2	Drugs	NULL

☐ Tout cocher | Pour la sélection : Modifier Copier Effacer Exporter

- **Positions table:**

```
SELECT * FROM `positions`
```

☐ Tout afficher

Nombre de lignes :

25



Filtrer les lignes:

Trier sur l'index:

Aucune



+ Options



id

name

patient\_id

<input type="checkbox"/>	Modifier	Copier	Effacer	1	backBL	NULL
<input type="checkbox"/>	Modifier	Copier	Effacer	2	backBR	NULL
<input type="checkbox"/>	Modifier	Copier	Effacer	3	backML	NULL
<input type="checkbox"/>	Modifier	Copier	Effacer	4	backMR	NULL
<input type="checkbox"/>	Modifier	Copier	Effacer	5	backTL	NULL
<input type="checkbox"/>	Modifier	Copier	Effacer	6	backTR	NULL
<input type="checkbox"/>	Modifier	Copier	Effacer	7	frontBL	NULL
<input type="checkbox"/>	Modifier	Copier	Effacer	8	frontBR	NULL
<input type="checkbox"/>	Modifier	Copier	Effacer	9	frontML	NULL
<input type="checkbox"/>	Modifier	Copier	Effacer	10	frontMR	NULL
<input type="checkbox"/>	Modifier	Copier	Effacer	11	frontTL	NULL
<input type="checkbox"/>	Modifier	Copier	Effacer	12	frontTR	NULL

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- **Symptoms table:**

```
SELECT * FROM `symptoms`
```

☐ Tout afficher

Nombre de lignes :




























25 ▼

Filtrer les lignes:

Trier sur l'index:

Aucune ▼

+ Options

				id	name	patient_id
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	1	Nausea	NULL
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	2	Photophobia	NULL
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	3	Anxiety	NULL
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	4	Mood Alterations	NULL
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	5	Fatigue	NULL
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	6	Vomiting	NULL
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	7	Throbbing pain	NULL
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	8	Pulsating pain	NULL
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	9	Pounding pain	NULL

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- **Triggers tables:**

```
SELECT * FROM `triggers`
```

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Nombre de lignes :































25

Filtrer les lignes:

Trier sur l'index:

Aucune

+ Options

				id	name	patient_id
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	1	Stress	NULL
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	2	Auditory	NULL
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	3	Fatigue	NULL
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	4	Fasting	NULL
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	5	Hormonal	NULL
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	6	Sleep	NULL
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	7	Weather	NULL
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	8	Visual	NULL
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	9	Olfactory	NULL
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	10	Alcohol	NULL

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Pour la sélection :



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Exporter

For adding new doctor we should use Advances REST client, because it is not possible with our android application (we should verify the identity of doctor), and of course we can not add the doctor directory to the database because the password should be crypted in web server before stored in database.

Request

GET

POST

PUT

DELETE

PATCH

Other methods

Request URL

http://aphrodite.dibris.unige.it:8080/public/user/register

SEND

Parameters

Headers

Body

Variables

Body content type

Editor view

application/x-www-for...

Form data (www-url-form-encoded)

ENCODE PAYLOAD

DECODE PAYLOAD

email	john.a@gmail.com	X
password	john.j	X
user_type	D	X
name	john	X

ADD FORM PARAMETER

Make sure that you are using post request, and that the body format is application/x-www-form-URL encoded.

## II. Web server/REST API

Copy the folder of “REST\_API” in your server, then execute the following commands:

- `cd REST_API`
- `screen`
- `php -S 0.0.0.0:8080`
- `screen -d`

That will create a child terminal, which going to lunch php server on screen, so even if you close the terminal, the server still running.

To make sure that the server is running, just execute “ps - aux” and check the existing of the process:

```

root      21882  0.0  0.3  21436  3188 pts/1    Ss+  Jul29   0:00 /bin/bash
root      21900  0.0  2.8 458860 29200 pts/1    S   Jul29   0:06 php -S 0.0.0.0:8080
www-data  24839  0.0  3.5 551476 36220 ?        S    06:25   0:00 /usr/sbin/apache2 -k start
www-data  24840  0.0  3.6 551492 37148 ?        S    06:25   0:00 /usr/sbin/apache2 -k start
www-data  24841  0.0  3.3 551276 33712 ?        S    06:25   0:00 /usr/sbin/apache2 -k start
www-data  24842  0.0  3.5 551476 35744 ?        S    06:25   0:00 /usr/sbin/apache2 -k start
www-data  24843  0.0  3.4 551464 34856 ?        S    06:25   0:00 /usr/sbin/apache2 -k start
www-data  25189  0.0  3.1 549424 32120 ?        S    06:58   0:00 /usr/sbin/apache2 -k start
www-data  25190  0.0  3.3 551424 34524 ?        S    06:58   0:00 /usr/sbin/apache2 -k start
mysql     26774  0.0  9.1 1108644 92908 ?        Ssl  Jul26   2:27 /usr/sbin/mysqld
root      26779  0.0  0.0      0      0 ?        S    10:04   0:00 [kworker/0:0]

```

### III. Android application

Copy the folder of “Headache\_template” with android studio and execute the project in your phone.