







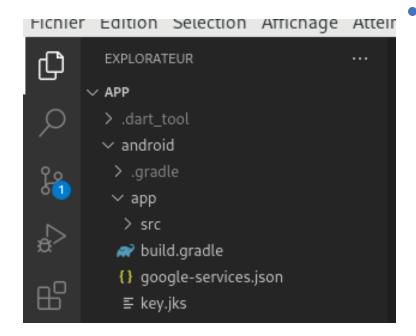
### Summary

- Mobile requirements
- OAuth2 Flow / Mobile and Web
- User management
- Area management
- About.json
- How we use about.json in Front Web
- About.json use to getAllParams Front Web
- About.json use to getParamsFromAboutJson Front Mobile
- Server technical documentation



### Mobile requirements

- Android Emulator compile Sdk Version must be 31 or greater
- Create a sha1 signature and key.jks file in client\_mobile/android/app/key.jks
- Register your sha1 signature in Firebase
- Download and copy the googles-services.json in client\_mobile/android/app/googles-services.json
- Make "adb reverse tcp:8080 tcp:8080"
  - It is to link server port to emulator android port
  - It is only util for google OAuth



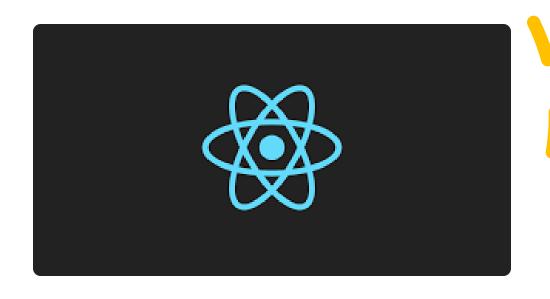


### Mobile config

 You can configurate the address and port of the Server for the mobile App

- You can easily set a new House Background (new theme)
- You can change the default House Background





## OAuth2 Flow / Mobile and Web

- GET to server/service/oauth2/authorize
- Web handle callback
- Callback is handled by Server for mobile
- After the user is connected to service, mobile and web ask Server to save Token:
  - POST server/savedb

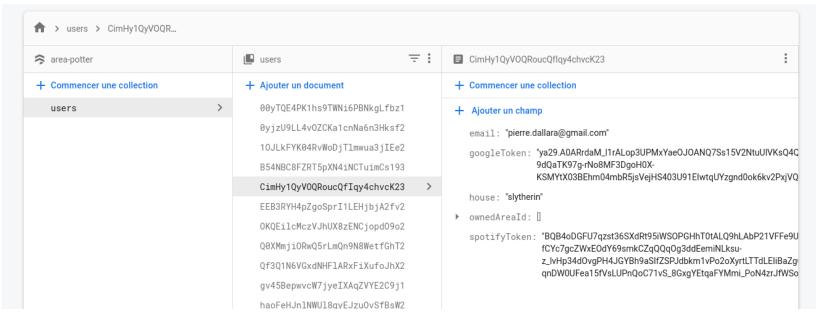




#### User management

- Web and Mobile use Firebase Auth
- After a user signin with Google or withEmailAndPassword, we must:
  - Create a new user in FireStore Bdd
  - Collection "users"
  - New document with id = uid of new connected user
  - Fields:
    - "email": mail of user
    - "house": default house



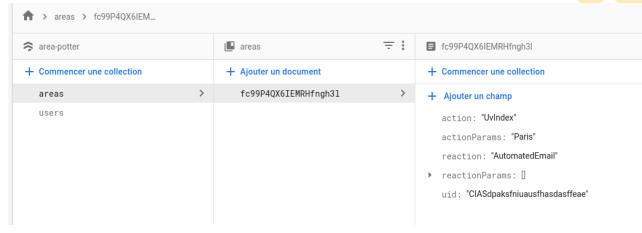


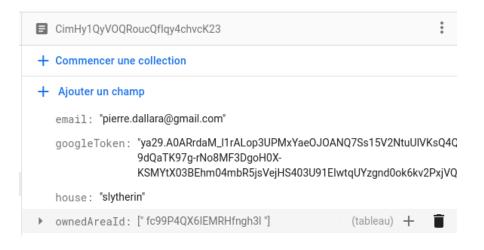






- Add new doc in collection "areas"
- Add new id of doc in "ownedAreald" of user
- Fields:
  - "uid": id of user who create Area
  - "action": name of action in about.json
  - "actionParams": Arguments of action if needed, optional in about.json
  - "reaction": name of reaction in about.json
  - "reactionParams": Arguments in array of reaction if needed, optional in about.json





### about.json

- Mobile and Web get the about.json from Server
- Display Action, Action Arguments depends on the about.json
- Display Reaction, Reaction Arguments depends on the about.json
- Action Arguments and Reaction Arguments are optional value in about.json
- Display depends if Service isNotOauth, optional value in about.json

```
'services": [{
  "name": "weather",
  "actions": [{
      "name": "UvIndex",
      "description": "Uv index change in city changed",
          "argName": "City"
      "name": "Temperature",
      "description": "Temperature in city changed",
          "argName": "City"
      "name": "Weather ",
      "description": "Weather in a city changed",
      "args": [{
          "argName": "City"
  "isNotOauth": true
  "name": "github",
  "actions": [{
      "name": "Repos",
      "description": "User has a new repository"
      "name": "Followers",
      "description": "User gets a new Follower"
  "reactions": [{
      "name": "Block",
      "description": "Block a user",
      "args": [{
          "argName": "Username"
      "name": "Follow",
      "description": "Follow a user",
      "args": [{
          "argName": "Username"
```



### How we use about.json in Front Mobile

 For each service form create we use the same function in "app/lib/utils/functions.dart": Future<List<List<Params>>>getParamsFrom AboutJson(String fromPage, String uid) async

• Each form for Create Area use class"app/lib/services/formCreate.dart"





# How we use about.json in Front Mobile

### Function async Future<List<List<Params>>> getParamsFromAboutJson(String fromPage, String uid)

- FromPage is the name of Page
- Uid is id of current user connected
- Get about.json from Server
- Get doc of user in Firestore Bdd
- Each action and reaction are represented by a class Params
- Get all action of a service:
  - If page == service name
  - If field "service name" + "Token" is here in UserData ("spotifyToken", discordToken", ...)
  - Or if service isNotOauth is set to true
- Get all reaction of a service:
  - If field "service name" + "Token" is here in UserData ("spotifyToken", discordToken", ...)
  - Or if service isNotOauth is set to true

## How we use about.json in Front Web



• For each form create Area, we use the same function to get all action and reaction infos

• In client/src/functions.jsx

async getAllParams(userData, page)

This functions returns an array with all actions infos at index 0 and all reactions infos at index 1



## How we use about.json in Front Web

```
client > src > components > models > 🌣 params.jsx > 😭 Action
     export class Action {
          constructor(service, name, description) {
           this.service = service:
           this.name = name;
            this.description = description;
           this.args = [];
     export class Reaction {
       constructor(service, name, description) {
11
12
         this.service = service;
         this.name = name;
13
         this.description = description;
         this.args = [];
17
```

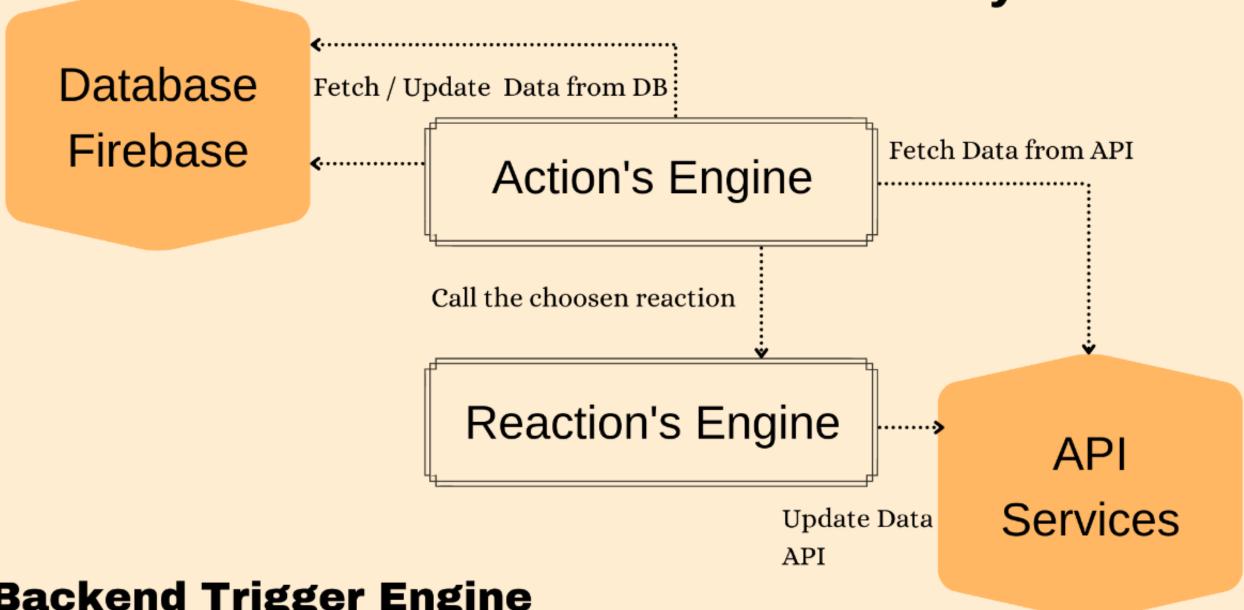
#### Function async getAllParams(userData, page)

- UserData is the doc in Firestore Bdd of the user
- Each action and reaction are represented by a class
- Get all action of a service:
  - If page == service name
  - If field "service name" + "Token" is here in UserData ("spotifyToken", discordToken", ...)
  - Or if service isNotOauth is set to true

- Get all reaction of a service:
  - If field "service name" + "Token" is here in UserData ("spotifyToken", discordToken", ...)
  - Or if service isNotOauth is set to true



### **Every 2 minutes**



**Backend Trigger Engine**