



# BORNE DE GEL CONNECTÉE

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Project 2023 BTS SN-IR

# SOMMAIRE

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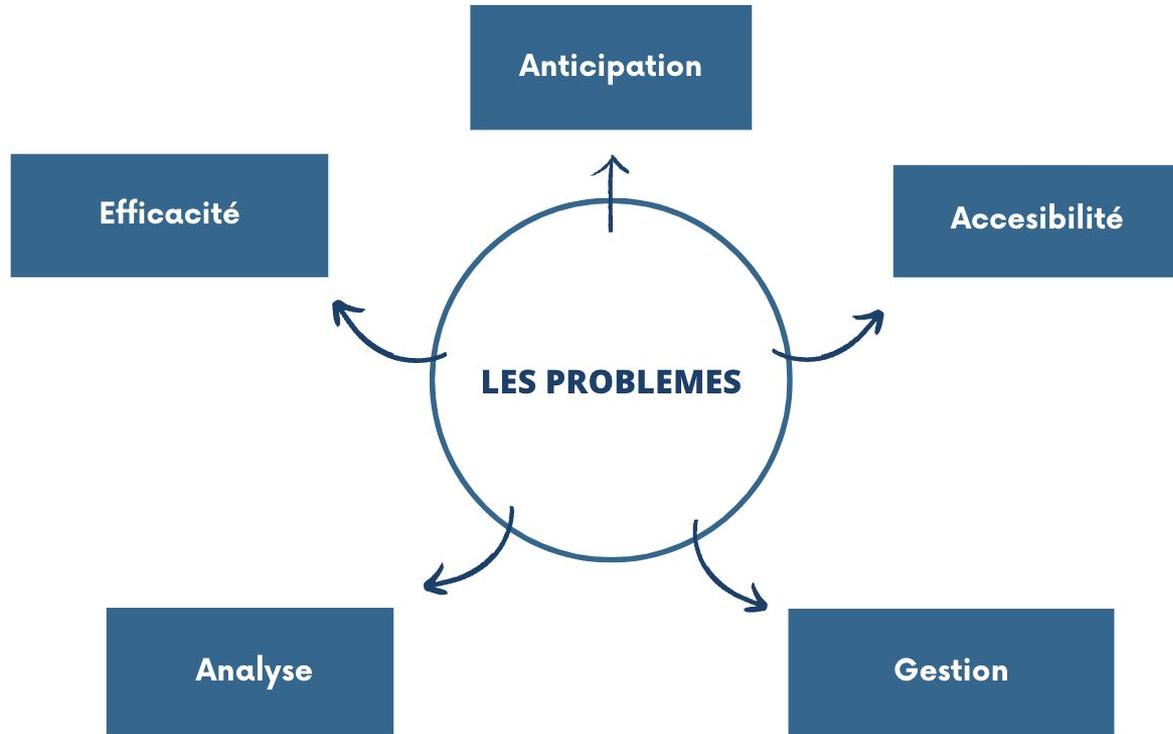
Solution



Problèmes



Projet



# Solutions

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## BORNE CONNECTÉ

( CAPTEURS ESP32 )

## BASE DE DONNÉES

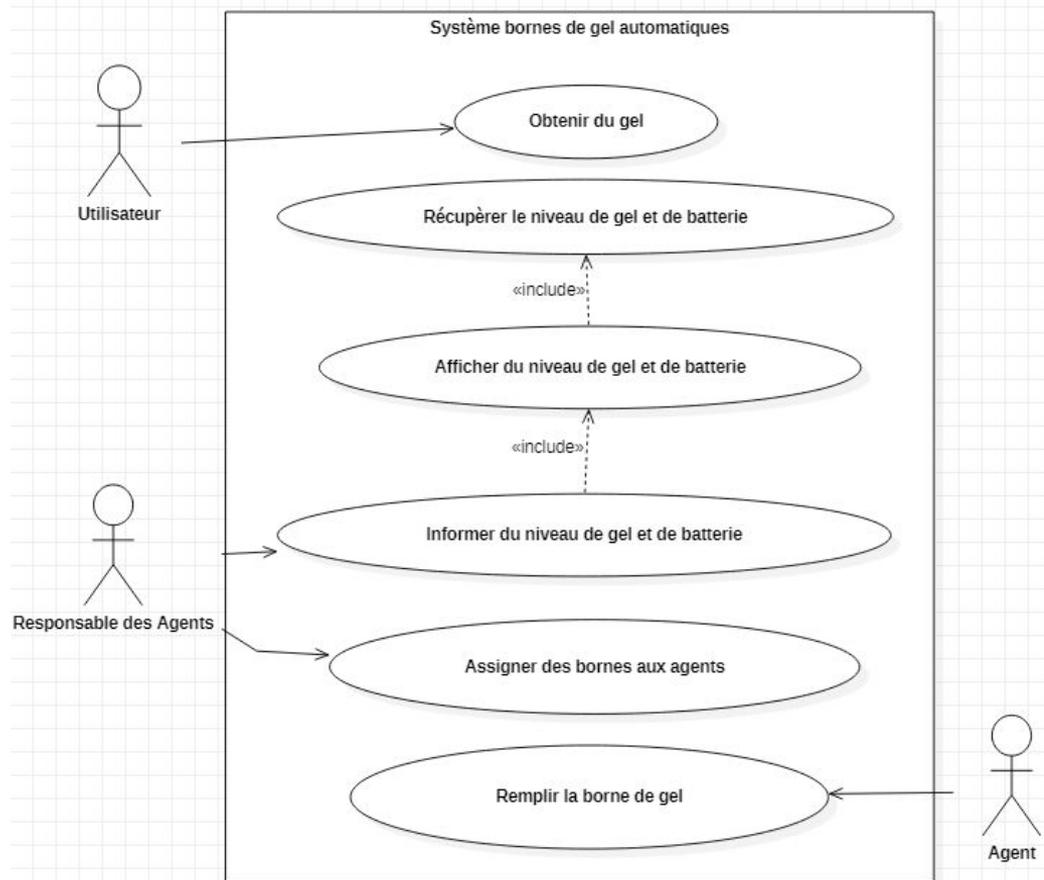
(Stock les données transmet  
par les capteurs )

## SITE & APP

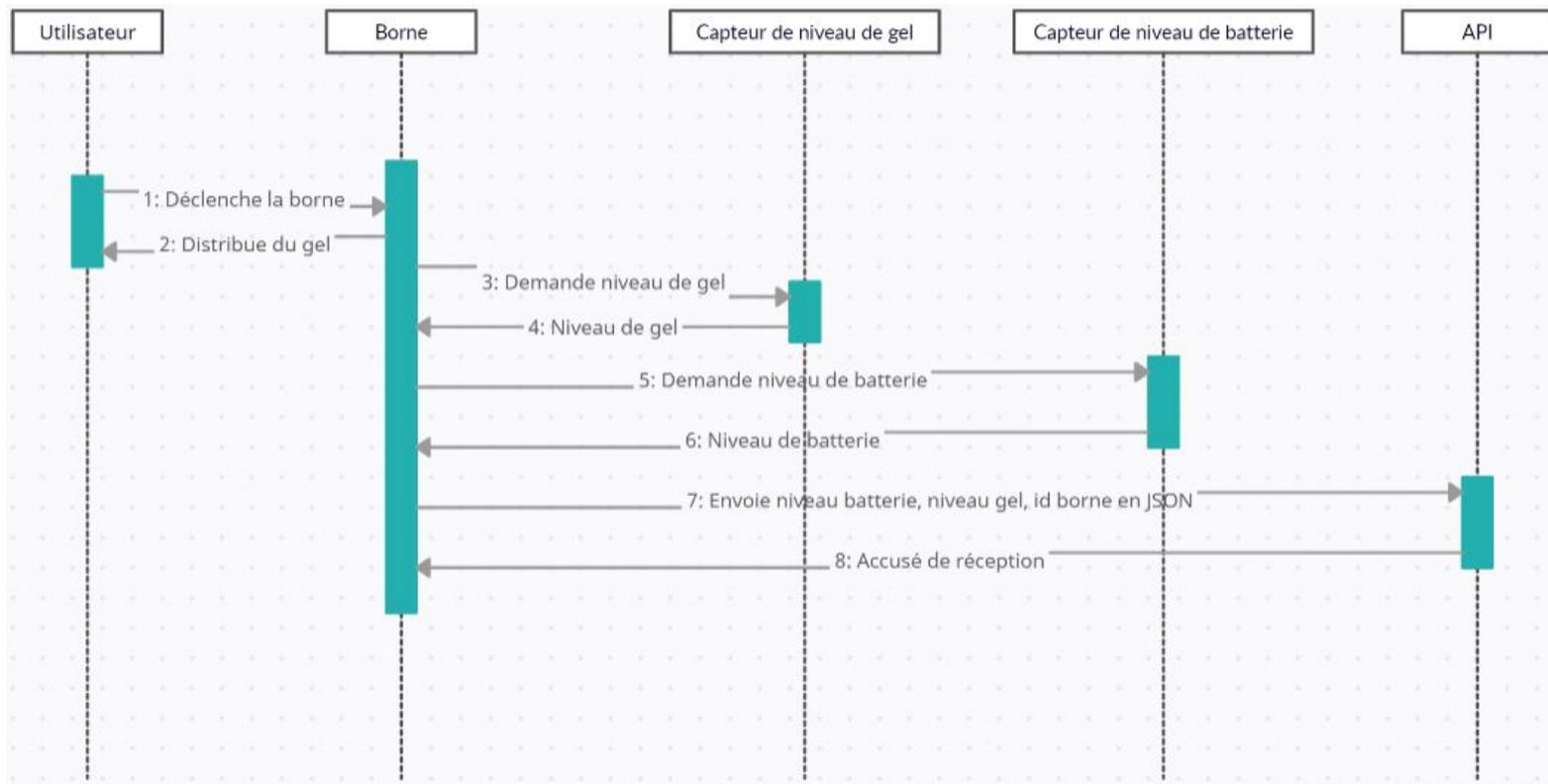
( Consulter & Gérer les  
bornes )

# PROJET

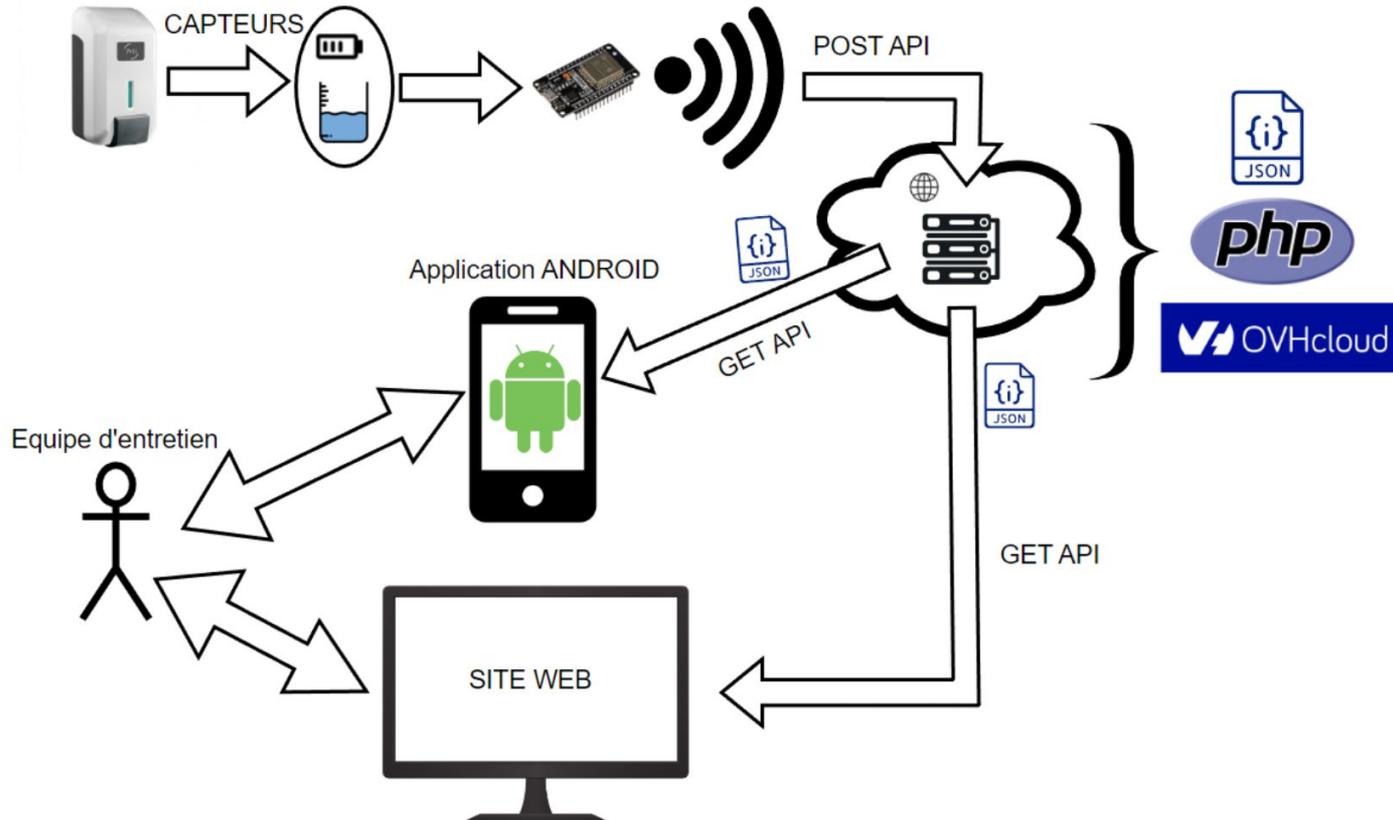
# Processus de Fonctionnement



# Séquençage de la borne



# Synoptique du projet





*Etudiant 1*

- API REST
- Base de Données



*Etudiant 2*

- Site web client

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# BORNE DE GEL CONNECTÉE

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*Etudiant 3*  
*Etu*

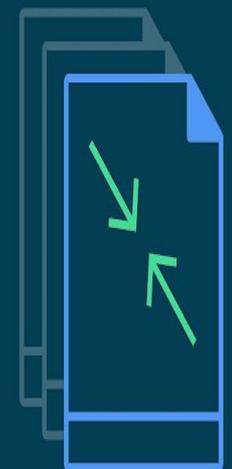
- Objet connecté IoT via WIFI prototype



*Etudiant 4*

- Application

# APPLICATION



## USER LOGIN

LOGIN

# JETPACK COMPOSE

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## KOTLIN

Un langage de programmation moderne et puissant



## PERFORMANCES

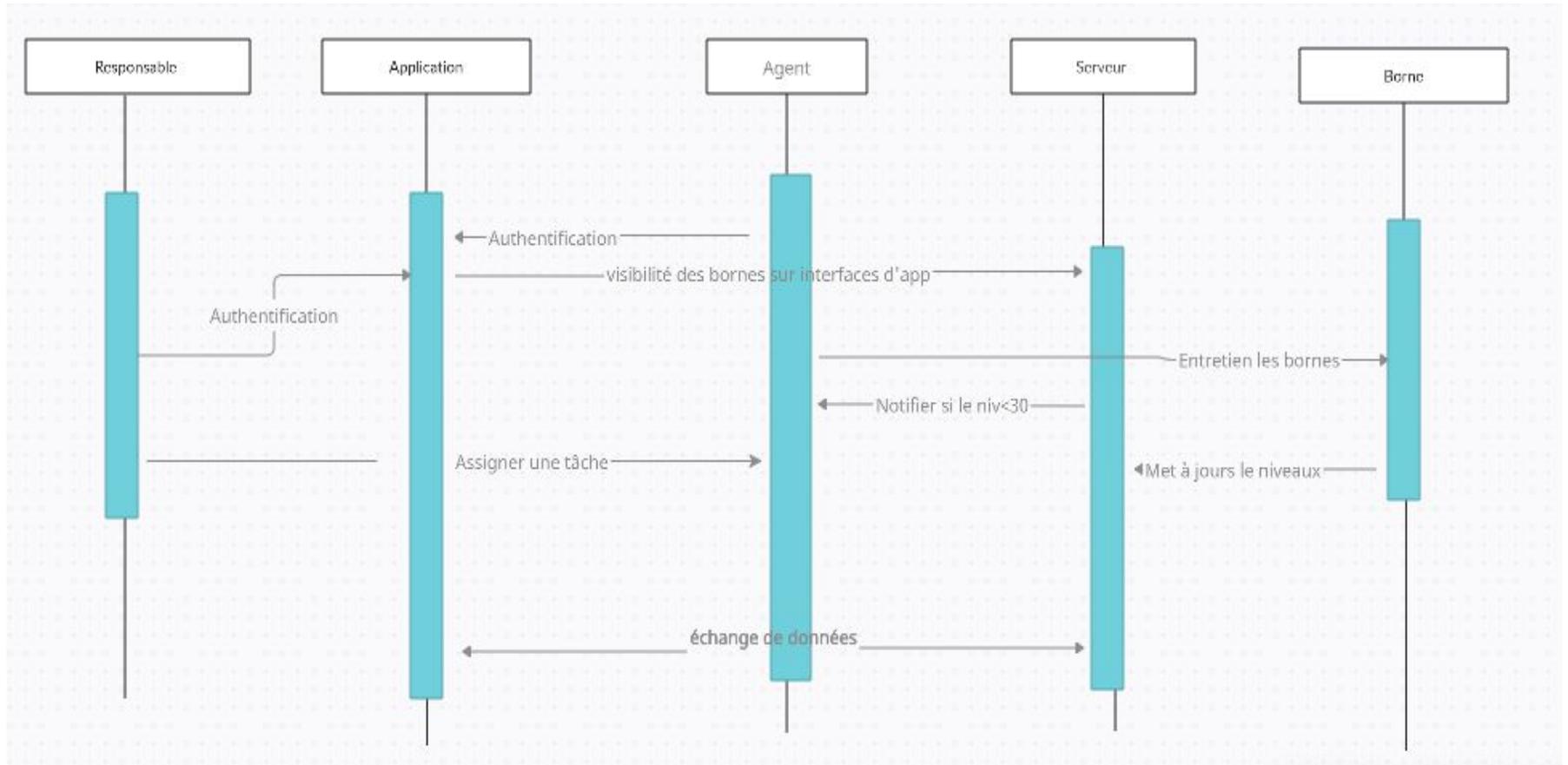
Jetpack Compose offre des performances améliorées par rapport aux anciennes bibliothèques d'interface utilisateur Android

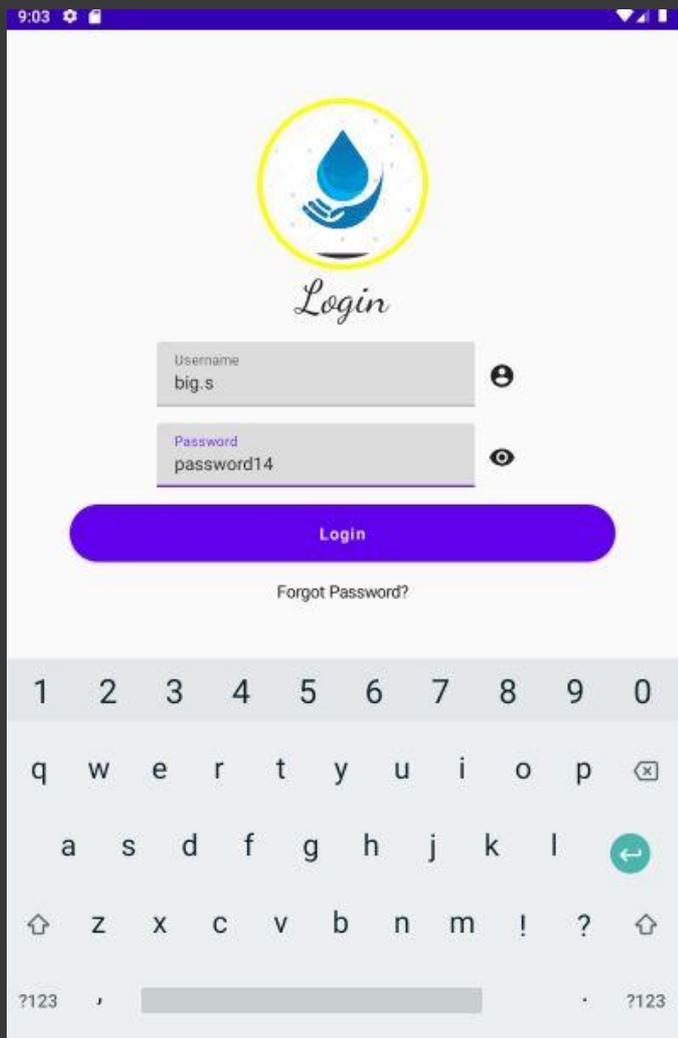


## APPROCHE DÉCLARATIVE

Utilisation d'une approche déclarative pour la création d'interface utilisateur

# Diagramme de séquence de l'application





## Page login

```
"statut": "responsable agent",  
"pwd": "password14",  
"username": "big.s"
```

```
"statut": "agent",  
"pwd": "password13",  
"username": "marc.j"
```

# Condition (if ,else)

```
val userList = response.body()?.users
if (userList != null) {
    for (i in 0 until userList.size) {
        val user = userList[i]
        // Accéder aux propriétés de l'utilisateur
        val profile = user.profile
        // Faire quelque chose avec la propriété 'profile'
        if (profile.username == username && profile.pwd == password && profile.statut == "responsable agent") {

            //PageAdmin(navController = NavHostController)
            navController.navigate( route: "PageAdmin")

        } else if (profile.username == username && profile.pwd == password && profile.statut == "agent") {

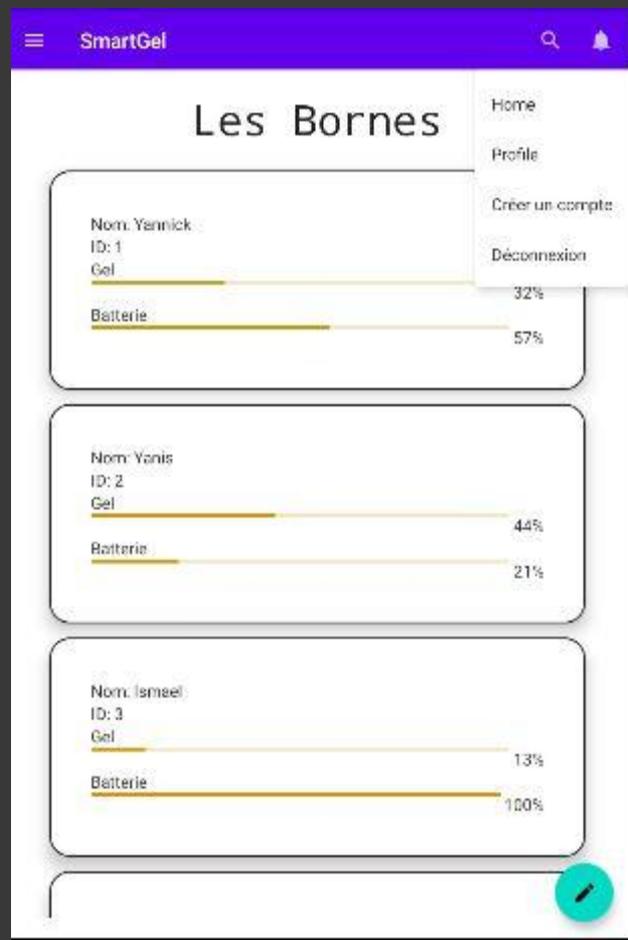
            //PageAgent(navController = NavHostController)
            navController.navigate( route: "PageAgent")

        } else {

            Log.e( tag: "Main", msg: "Failed mate " )
        }
    }
}
```



## Interface Responsable des Agents



The screenshot displays the 'SmartGel' application interface. At the top, there is a purple header with the 'SmartGel' logo, a search icon, and a notification bell. Below the header, the main content area is titled 'Missions Assigné' and 'Missions'. A navigation menu on the right side includes 'Home', 'Profile', and 'Déconnexion'. The main content area features two mission cards. The first card is for agent Marc (ID: 7), showing 'Gel' at 3% and 'Batterie' at 0%. The second card is for agent Henry (ID: 8), showing 'Gel' at 0% and 'Batterie' at 3%. Each card has a yellow progress bar for each category.

SmartGel

# Missions Assigné

## Missions

- Home
- Profile
- Déconnexion

Nom: Marc  
ID: 7  
Gel 3%  
Batterie 0%

Nom: Henry  
ID: 8  
Gel 0%  
Batterie 3%

# Interface agent

Merci