AREA

This project is built using Docker, ensuring a streamlined development and deployment process. The project structure is organized into distinct components: the backend (including database and API access), the website, and the mobile application. Each component has its own Dockerfile located within its respective directory, and there is a docker-compose.yaml file at the root of the project.

The docker-compose.yaml file orchestrates the build process by referencing the Dockerfiles in the following directories: /Backend, /FrontendAPP, and /FrontendWeb. It builds the entire project and sets up the server. You can launch it via the executable file launch_docker.sh.

The individual Dockerfiles are responsible for constructing each component (/Backend, /FrontendAPP, and /FrontendWeb) to enable the docker-compose.yaml to successfully launch the entire project.

Backend Project :

Description

This project manages users, makes calls to third-party APIs such as Google, Spotify, OpenWeather, Twitch, Github and NewsAPI, and serves data to the frontend. Authentication is handled via JSON Web Tokens (JWT) and Supabase. Swagger is used for API documentation.

Table of Contents

- Installation
- Starting the Project
- Environment Variables
- API Documentation
- Project Structure
- Useful Commands

Installation

To install and run the Backend locally:

Clone the repository:

```
➜  AREA (dev) git clone git@github.com:EpitechPromo2027/B-DEV-500-TLS-5-1-area-anastasia.bouby.git
cd B-DEV-500-TLS-5-1-area-anastasia.bouby/Backend
```

Install the dependencies:

```
➜  Backend (dev) npm install
```

Starting the project

To start the project, use the following command:

```
Backend (dev) npm run dev
```

The server will run by default on port 8080.

Environnement variables

The project requires certain environment variables to function correctly.

Create a .env file at the root of the Backend directory with the following content:

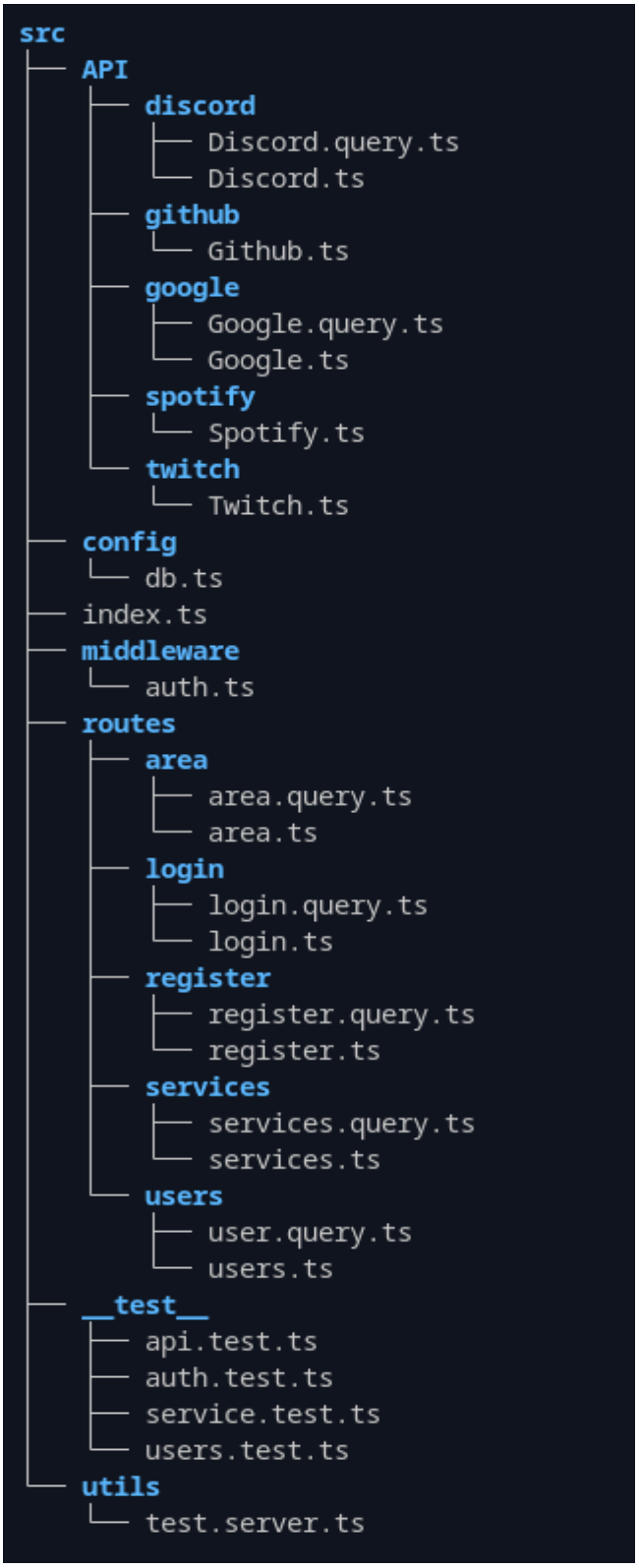
```
REACT_APP_SUPABASE_URL="https://qkqqhtvrxplbxmvikcdy.supabase.co"
REACT_APP_SUPABASE_ANON_KEY="your-supabase-anon-key"

GOOGLE_API_KEY="your-google-api-key"

NEWSAPI_API_KEY="your-newsapi-api-key"

OPENWEATHER_KEY="your-openweather-api-key"

GOOGLE_CLIENT_ID="your-google-client-id"
GOOGLE_CLIENT_SECRET="your-google-client-secret"

SPOTIFY_CLIENT_ID="your-spotify-client-id"
SPOTIFY_CLIENT_SECRET="your-spotify-client-secret"

DISCORD_CLIENT_ID="your-discord-client-id"
DISCORD_CLIENT_SECRET="your-discord-client-secret"
DISCORD_TOKEN="your-discord-token"
GUILD_ID="1288150792301183007"

TWITCH_CLIENT_ID="your-twitch-client-id"
TWITCH_CLIENT_SECRET="your-twitch-client-secret"

GITHUB_CLIENT_ID="your-github-client-id"
GITHUB_CLIENT_SECRET="your-github-client-secret"

SECRET=AREA
```

API Documentation

The complete API documentation can be accessed via Swagger. Once the server is running, navigate to http://localhost:8080/api-docs to explore the available endpoints and their usage.

Project structure

Here is the structure of the Backend:



Useful Commands

- Build the project: npm run build
- Start the server: npm run start
- Run the project in development mode: npm run dev
- Lint the code: npm run lint
- Generate Swagger Documentation: Swagger documentation will be updated automatically if you follow the right format in your route comments.

Frontend web project :

Description :

This project is the Frontend part of the AREA project. It provides a user interface to define and manage automation rules (actions and reactions), while ensuring a smooth user experience for viewing and tracking ongoing automations.

Table of Contents :

- Installation
- Starting the Project
- Project Structure
- Useful Commands

Installation :

To install and run the frontend web locally:

1. Prerequisites

Before getting started, make sure you have the following installed on your machine:

- Node.js (version 14.18+ or 16+ recommended)
- npm (comes with Node.js) or yarn.

2. Clone the repository:

```
AREA (dev) git clone git@github.com:EpitechPromo2027/B-DEV-500-TLS-5-1-area-anastasia.bouby.git
cd B-DEV-500-TLS-5-1-area-anastasia.bouby/FrontendWeb
```

3. Install the dependencies:

```
FrontendWeb (dev) npm install
```

or

```
FrontendWeb (dev) npm install yarn
```

Starting the project

1. To start the project, use the following command:

```
FrontendWeb (dev) npm run dev
```

or

```
FrontendWeb (dev) yarn dev
```

The server will run by default on port 8081.

2. If you want build the project and after start it independently:

```
FrontendWeb (dev) npm run build
```

or

```
FrontendWeb (dev) yarn build
```

and:

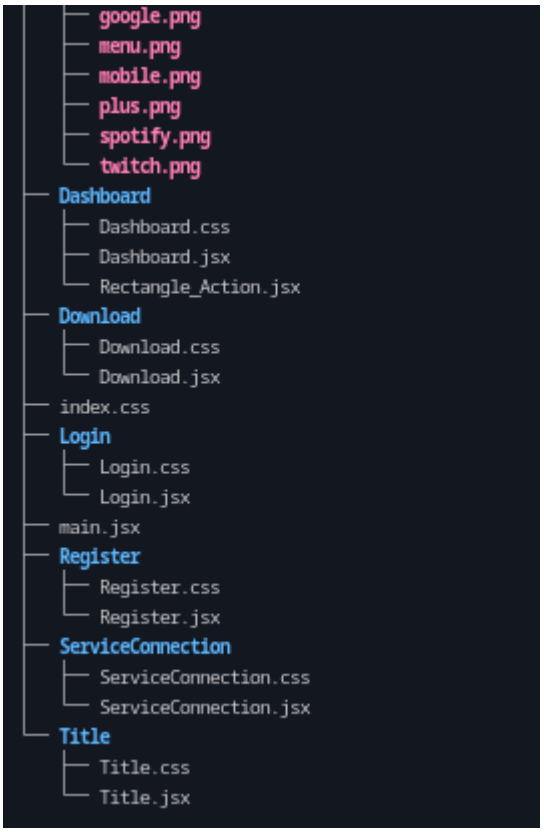
```
FrontendWeb (dev) npm run preview
```

or

```
➜ FrontendWeb (dev) yarn preview
```

Project structure

Here is the structure of the project:



Useful Commands

- Build the project: npm run build
- Start the server: npm run start
- Run the project in development mode: npm run dev
- Lint the code: npm run lint

Frontend App Project :

Description

This project is the Frontend part of the AREA project. It provides a user interface to define and manage automation rules (actions and reactions), while ensuring a smooth user experience for viewing and tracking ongoing automations.

Table of Contents

- Installation
- Starting the Project
- Project Structure
- Useful Commands

Installation

To install and run the frontend web locally:

1. Prerequisites

Before getting started, make sure you have the following installed on your machine:

- Node.js (version 14.18+ or 16+ recommended)
- npm (comes with Node.js) or yarn.

2. Clone the repository:

```
→  AREA (dev) git clone git@github.com:EpitechPromo2027/B-DEV-500-TLS-5-1-area-anastasia.bouby.git
cd B-DEV-500-TLS-5-1-area-anastasia.bouby/FrontendApp
```

3. Install the dependencies:

```
→  FrontendApp (dev) npm install
```

Starting the project

1. To start the project and open it in android studio, use the following command:

```
FrontendApp (dev) ionic capacitor build android
```

2. To start the project and open it in the web browser, use the following command:

```
FrontendApp (dev) ionic serve
```

The server will run by default on port 8100.

Project structure

Here is the structure of the project:

Useful Commands

- Build the project: npm run build
- Start the server: npm run start
- Run the project in android studio: ionic capacitor build android
- Run the project in the web browser : ionic serve
- Lint the code: npm run lint

Service Project :

The Service project is responsible for managing all actions and reactions within the application.

Table of Contents

- Installation
- Starting the Project
- Project Structure
- Useful Commands

Installation

To install and run the service locally:

1. Prerequisites

Before getting started, make sure you have the following installed on your machine:

- Node.js (version 14.18+ or 16+ recommended)
- npm (comes with Node.js) or yarn.

2. Clone the repository:

```
➜  AREA (dev) git clone git@github.com:EpitechPromo2027/B-DEV-500-TLS-5-1-area-anastasia.bouby.git
cd B-DEV-500-TLS-5-1-area-anastasia.bouby/Service
```

3. Install the dependencies:

```
➜  Service (dev) npm install
```

Starting the project

1. To start the project, use the following command:

```
Service (dev) npm run dev
```

Environnement variables

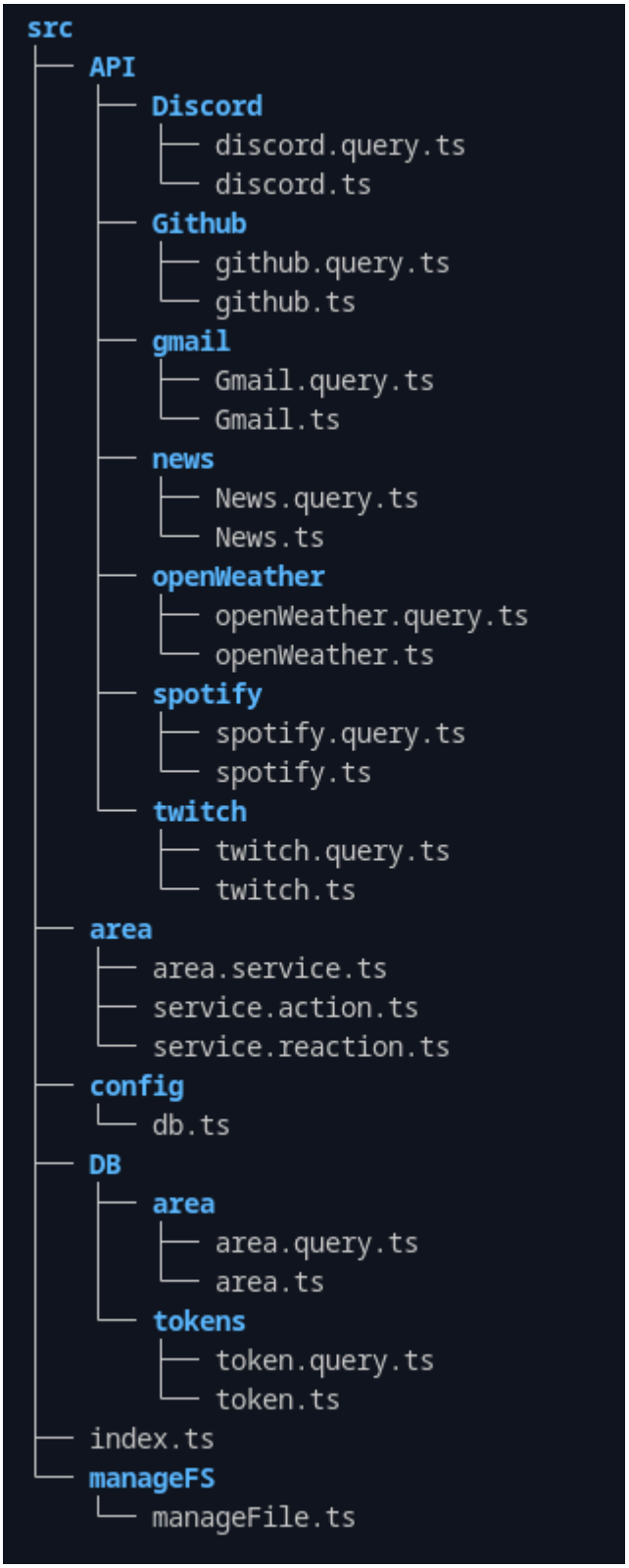
The project requires certain environment variables to function correctly.

Create a .env file at the root of the Service directory with the following content:

```
REACT_APP_SUPABASE_URL="https://qkqqhtvrxplbxmvikcdy.supabase.co"
REACT_APP_SUPABASE_ANON_KEY="your-supabase-anon-key"

GOOGLE_API_KEY="your-google-api-key"

NEWSAPI_API_KEY="your-newsapi-api-key"

OPENWEATHER_KEY="your-openweather-api-key"

GOOGLE_CLIENT_ID="your-google-client-id"
GOOGLE_CLIENT_SECRET="your-google-client-secret"

SPOTIFY_CLIENT_ID="your-spotify-client-id"
SPOTIFY_CLIENT_SECRET="your-spotify-client-secret"

DISCORD_CLIENT_ID="your-discord-client-id"
DISCORD_CLIENT_SECRET="your-discord-client-secret"
DISCORD_TOKEN="your-discord-token"
GUILD_ID="1288150792301183007"

TWITCH_CLIENT_ID="your-twitch-client-id"
TWITCH_CLIENT_SECRET="your-twitch-client-secret"

GITHUB_CLIENT_ID="your-github-client-id"
GITHUB_CLIENT_SECRET="your-github-client-secret"

SECRET=AREA
```

Project structure

Here is the structure of the project:



Useful Commands

- Build the project: npm run build
- Run the project in development mode: npm run dev