



EPITECH YEAR-END PROJECT

AREA

MOBILE APPLICATION DOCUMENTATION

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Document Description

Title	Documentation
Object	AREA Application User & Admin Documentation
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Keywords	AREA, Action, Reaction, Documentation, User, Admin
Last Update	February 28, 2022
Model Version	1.0

Table of revisions

Date	Version	Author	Section(s)	Comment
28/02/2022	1.0	Sobihan M.	All	First Version

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1. The AREA Project

a. General Considerations

As part of this project, you will assume the role of a Software Architect. Your main goal is neither reinventing the wheel nor writing numerous lines of code.

On the contrary, your main goal is to understand, select and integrate a wide range of existing libraries.

The code you write will only implement the so-called business logic. In other words, your main job will be to write glue between selected software components to complete the requested project. Before embarking on the creation of such a project, we suggest you take the time to analyze and understand the operation of each software brick. In this theory, we will talk about state of the art and POC:

- State of the art: Study the different possible solutions and choose the right component based on the requirements.
- POC (Proof of Concept): Make a quick demo program that proves the proper functioning of a component or algorithm.

b. The Project

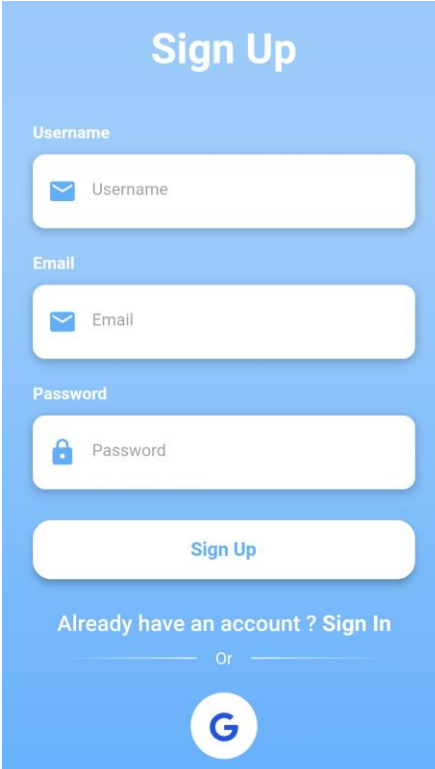
The goal of this project is to discover the software platform that you have chosen through the creation of a business application. To do this, you must implement a software suite that functions like that of IFTTT and/or Zapier. This software suite will be broken into three parts:

- An application server to implement all the features listed below (see Features)
- A web client to use the application from your browser by querying the application server
- A mobile client to use the application from your phone by querying the application server

2. User Documentation

a. Registration

Users can register an account by clicking on [Don't have an account? Sign Up](#) on the login page. This will redirect him on the registration page.

A registration form titled "Sign Up" on a blue background. It contains three input fields: "Username" with an envelope icon, "Email" with an envelope icon, and "Password" with a lock icon. Below the fields is a "Sign Up" button. At the bottom, there is a link "Already have an account ? Sign In" with "Or" in between, and a circular logo with the letter "G".

Sign Up

Username

Email

Password

Sign Up

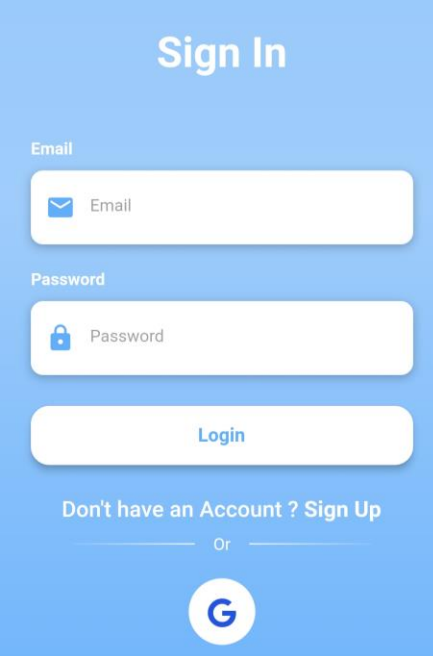
Already have an account ? Sign In

Or

G

b. Authentication

Users can Login by entering his credentials on the login page or by clicking on **Login with Google** to authenticate with a Google account.



The image shows a 'Sign In' form on a blue background. At the top, the text 'Sign In' is displayed in white. Below it, there are two input fields: 'Email' with an envelope icon and 'Password' with a lock icon. A 'Login' button is positioned below these fields. Under the button, there is a link that says 'Don't have an Account ? Sign Up'. At the bottom, there is a circular button with a white 'G' on a blue background, representing the Google login option.

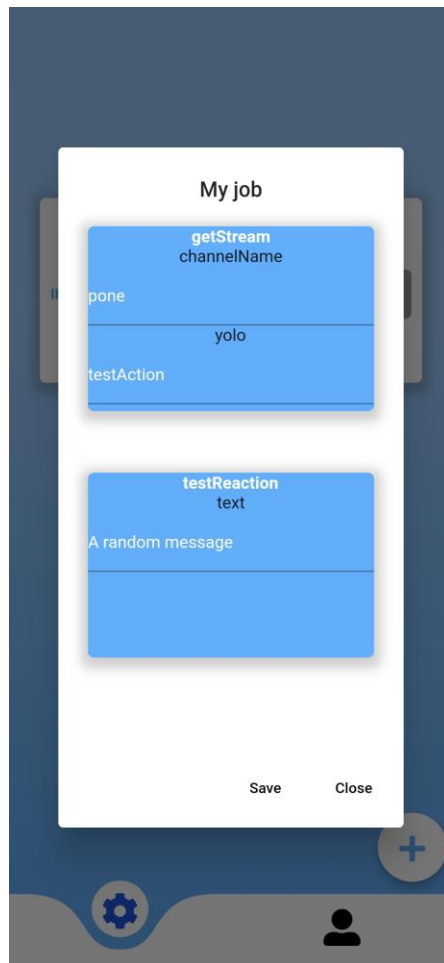
c. Create a new AREA

To Create a new AREA, Users just need to click on the **+** button on the bottom of the **Jobs** page. This will display a popup where users can customize their new AREA.

The screenshot shows a mobile application interface for creating a new AREA. At the top, there is a horizontal navigation bar with three tabs: 'Action' (selected, indicated by a blue circle), 'Reaction' (indicated by a grey circle), and 'Trigger' (indicated by a grey circle). Below the navigation bar is a large white rectangular area with rounded corners. Inside this area, the text 'Choose the action' is followed by a text input field containing 'getAPOD' and a downward-pointing arrow icon. At the bottom of the white area, there are two buttons: a blue button labeled 'CONTINUE' and a grey button labeled 'CANCEL'.

d. Edit an AREA

To edit a created AREA, just click the AREA on the **Jobs** page.

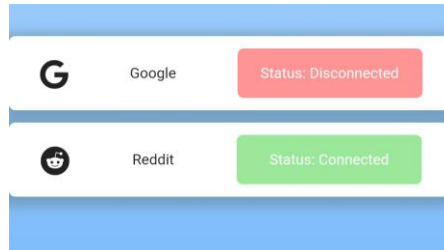


e. Delete an AREA

To delete an AREA, just swipe to left the AREA on the **Jobs** page.

f. Register to a service

Service registration is available on the **USER** page. To register to a service, users need to click on the associated **CONNECT** button.



g. Log out

Users can Logout by clicking on the **Logout** button located in the top right of the **USER** page.



3. Admin Documentation

a. How to build the mobile application

To edit / build the application code, firstly, clone the GitHub repository of the project. All of the project is containerized with docker. To build the application, go in the cloned GitHub repository and type **docker-compose up** at the folder root. The application will be available at `"/app-apk:/usr/src/app/build/app/outputs/flutter-apk/"` folder to rebuild the application just type **docker-compose stop && docker-compose build app && docker-compose up**

b. Create / Edit / Delete an Action

Actions are managed by the backend of the project. To Create / Edit / Delete an Action please refer to the backend Documentation.

c. Create / Edit / Delete a reaction

Reactions are managed by the backend of the project. To Create / Edit / Delete a Reaction please refer to the backend Documentation.

d. Edit Job Page

If you want to edit the Home Page, you can find all the code related to the Job Page in the **app/lib/pages/area_page.dart** file and if you want to edit some component of the Job Page you can find all the code in the folder `app/lib/Components/Area`.

e. Edit Job List

If you want to edit the job list / add a new button, you can find all the code related to the job list in the **app/lib/pages/area_page.dart** file.

f. Edit Create AREA

If you want to edit the Create AREA box, you can find all the code related to this box in the **app/lib/pages/area_page.dart** file.

g. Edit Edit AREA

If you want to edit the Edit AREA box, you can find all the code related to this box in the **app/lib/pages/area_page.dart** file.

h. Edit / Add a service

If you want to edit or add a new service, you can find all the code related to this in the **app/lib/pages/user_page.dart** file. If you want to add or edit an existing service, you can create or edit files located in the **app/lib/API/** folder.