

# AREA

*An Epitech Project about  
Actions & REActions*

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## Summary:

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## 1) Project AREA

The objective of this EPITECH project is to create a business application by implementing a software suite where multiple services are interconnected. The authenticated user can sign up and sign in on different services, authorizing the access to those services. He can also create some AREA in order to execute a REAction when an Action is found. AREA is released via both a web application and a mobile application. An AREA is created when at least one service reacts on a triggered action by another service.

Non-authenticated users can create an account. Once they are connected, they can access and manage their connection to the different services, the authentication tokens created on each service's authentication are saved so the user can access automatically to the service.

## 2) Technologies environment

We chose to develop the server application in **Node.js** for its use of non-blocking event-driven I/O, where both the client and the server can initiate communication.

The mobile application was developed in **Kotlin** for its simplicity.

Finally, **React** was the best option we could think of to create the web application.

MongoDB is the database management system we chose for the entire project.

### 3) Services, Actions & REActions

| Services | Actions  | REActions  |
|----------|--|--|
| Discord  | Receive a message in any channel of a server   | Send a message in a specific channel of a server     |
| Github   | Someone pushes on the repository<br>Someone makes a pull request o the repository  | Create an issue                                      |
| Gmail    |  | Send a mail to someone                               |
| Slack    |  | Send a message to specific channel in a slack server |
| DropBox  | Someone creates a file in the user's DropBox<br>Someone deletes a file in the user's DropBox<br>Someone renames a file in the user's DropBox<br>Someone creates a folder in the user's DropBox<br>Someone moves a file in the user's DropBox |  |
| Timer    | Triggers X min after the start<br>Triggers X min after the start and it infinitely   |  |
| Zoho     |  | Send a mail to someone                               |

## 4) Deployment

docker, docker-compose and ngrok must be installed in order to launch the project.

To start the project, type the following commands:

```
docker-compose build
```

```
docker-compose up
```

```
ngrok http https://localhost:8080/
```