# PROJECT PRESENTATION

## **AREA** - IFTTT-LIKE WEB AUTOMATION PLATFORM (ACTIONS & REACTIONS)

## LANGUAGES: NESTJS (BACK-END), NEXTJS (FRONT-END)

The goal of the AREA project is to develop a platform that allows users to **create automated tasks linking various services together**. The concept is directly inspired by **IFTTT** (If This Then That): a user defines a trigger (an action) and links it to a response (a reaction).
Example:
"If I receive an email, then send a Discord message."
"If it's Monday 9 AM, then send me a weather forecast on Telegram."
AREA is composed of a front-end, a back-end, and multiple service integrations using OAuth2 and REST APIs. The architecture is microservice-oriented and promotes scalability, modularity, and real-time behavior.
Key Concepts:

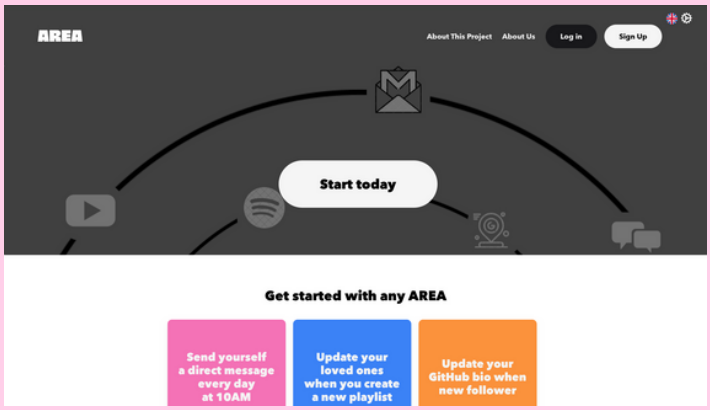
- **Actions**: Triggered events (e.g., receiving an email, time-based triggers, GitHub events, etc.)
- **Reactions**: Responses (e.g., sending a message, posting a tweet, writing to a file, etc.)
- **OAuth2**: Authentication flow to interact with third-party APIs securely
- User Accounts: Account creation, session management, token storage

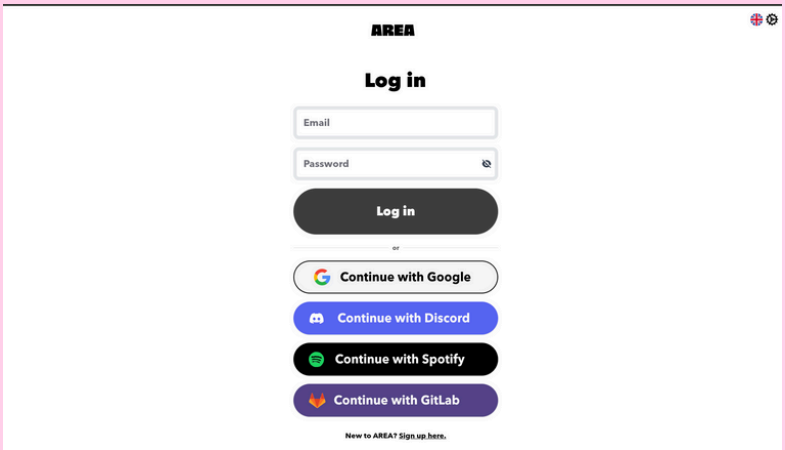
Back-End

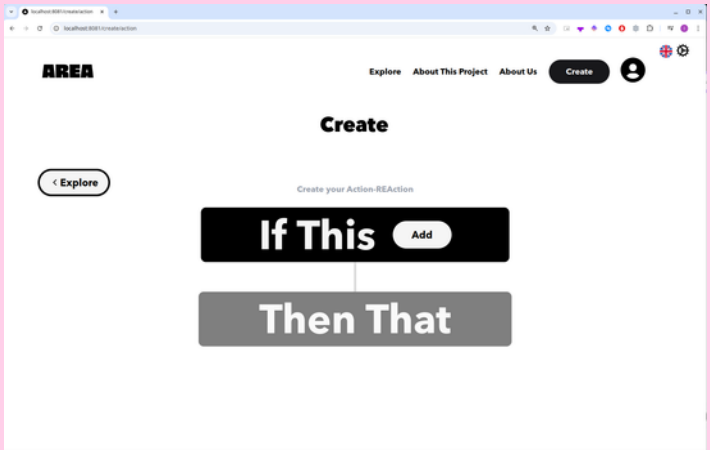
- **RESTful API**
- **Auth with OAuth2,** JWT for session tokens
- **PostgreSQL** for storing user data & triggers

Front-End

- Built with **Next.js**
- **Authentication flow**, dashboard to manage applets
- **Responsive** UI with live feedback
- Automation Engine:
- Internal service or cron-based engine running "applets"
- Polling APIs or subscribing to webhook events
- Executes reactions when conditions are met
- Dockerized:
- All services runnable with Docker Compose
- CI/CD pipeline compatible




### Why I like this project ?

This project was particularly interesting because it was **my first real web project**. So I was able to discover how a website works and the challenges involved in creating it. I'll especially mention the **front end**, since that's what I concentrated on, as well as **API and databases management.**

Supported services


Click here to see the project repository