AREA Project

Year 2024-2025

Nexus Documentation

Web Service

The goal of this project is to create an automation platform, using actions and reactions with various APIs.

For this project, we needed to create a website and a mobile app.

In this documentation, we will tell you about the Web Service that we created to handle actions and reactions.

Behaviors

Actions

This folder contains all the behaviors of the actions for our APIs.

Reactions

This folder contains all the behaviors of the reactions for our APIs.

Managers

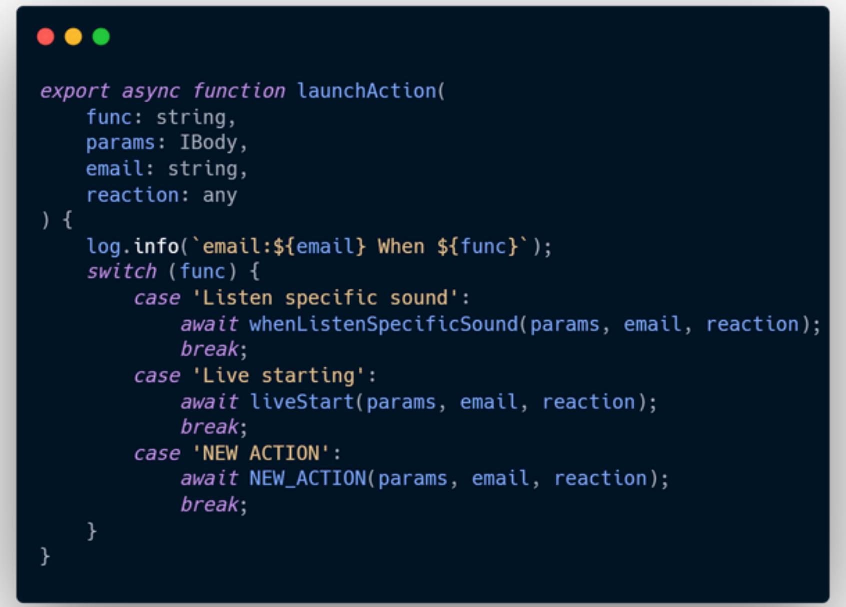
Select the appropriate action / reaction depending on the name of the entry.

Web Service

Retrieve the user configurations and launch the actions / reactions.

Add new actions

“/ws/src/core/action.manager.ts”
To add new actions, modify the **launchAction** function

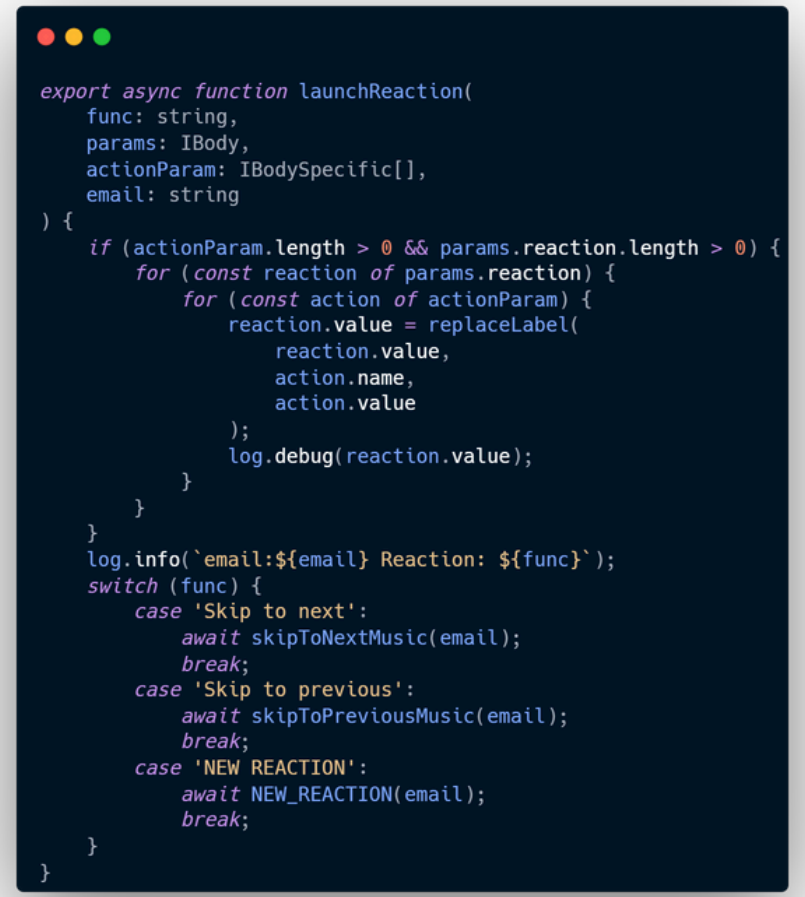


```
export async function launchAction(
    func: string,
    params: IBody,
    email: string,
    reaction: any
) {
    log.info(`email:${email} When ${func}`);
    switch (func) {
        case 'Listen specific sound':
            await whenListenSpecificSound(params, email, reaction);
            break;
        case 'Live starting':
            await liveStart(params, email, reaction);
            break;
        case 'NEW ACTION':
            await NEW_ACTION(params, email, reaction);
            break;
    }
}
```

The functions are inside “/ws/src/core/actions”, in the different API files.

Add new reactions

"/ws/src/core/reaction.manager.ts"
To add new reactions, modify the **launchReaction** function



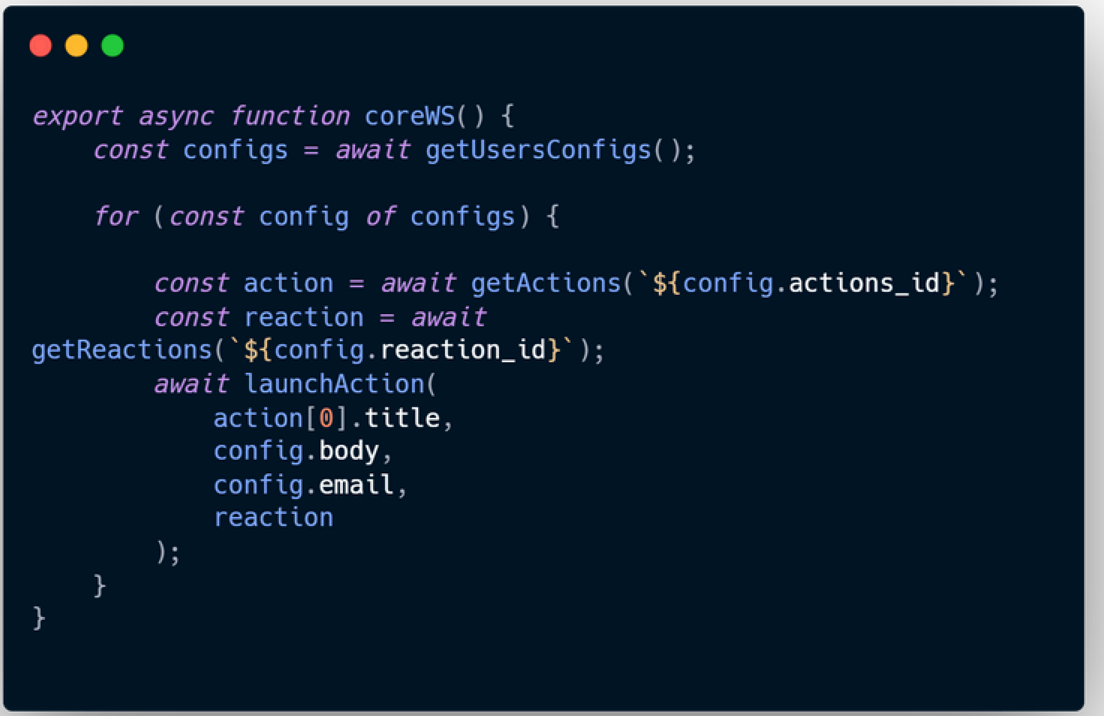
```ts
export async function launchReaction(
    func: string,
    params: IBody,
    actionParam: IBodySpecific[],
    email: string
) {
    if (actionParam.length > 0 && params.reaction.length > 0) {
        for (const reaction of params.reaction) {
            for (const action of actionParam) {
                reaction.value = replaceLabel(
                    reaction.value,
                    action.name,
                    action.value
                );
                log.debug(reaction.value);
            }
        }
    }
    log.info(`email:${email} Reaction: ${func}`);
    switch (func) {
        case 'Skip to next':
            await skipToNextMusic(email);
            break;
        case 'Skip to previous':
            await skipToPreviousMusic(email);
            break;
        case 'NEW REACTION':
            await NEW_REACTION(email);
            break;
    }
}
```

The functions are inside "/ws/src/core/reactions", in the different API files.

Web service

“/ws/src/core/webservice.ts”

Here’s how the web service works, to launch the actions and reactions



```
export async function coreWS() {
    const configs = await getUsersConfigs();

    for (const config of configs) {

        const action = await getActions(`${config.actions_id}`);
        const reaction = await
getReactions(`${config.reaction_id}`);
        await launchAction(
            action[0].title,
            config.body,
            config.email,
            reaction
        );
    }
}
```