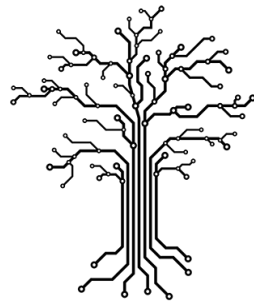# CLIMATETREE

API Gateway

Developer Guide

Short Description:

The Gateway sits between the Frontend and the other microservices for our Website. It routes all internet traffic from the frontend to the appropriate microservices.

Goals and Audience:

The Frontend is the audience for the API Gateway. The goal for the API Gateway is that the frontend must not make requests to the microservices directly. All the requests must go through the API Gateway. The Gateway helps in decoupling of Frontend and Backend.

Tools, technologies, and servers used

Express gateway - An open source NodeJS server that can be configured to the user's needs using config/gateway.config.yaml files

Process when one pulls app from Git

1. Git repo link - https://github.com/climatetree/api-gateway
2. Use editor - Any text editor of the user's preference. For example, Sublime, Visual Studio Code etcetera
3. Where to find gateway links and what specifics are covered?

API documentation link

https://documenter.getpostman.com/view/7834710/Szf6X8Wf?version=latest

Folder Structure

- config/
    - gateway.config.yml
    - system.config.yml
    - models/
        - application.json
        - users.json
        - credentials.json
- README.md
- Dockerfile
- server.js
- package.json
- docker_push.sh

Known issues and risks

Future features:

Adding load-balancing feature is in the future scope. The express gateway project allows listing a list of URLs if one target is not enough. It can be specified in the proxy attribute of the policy in gateway.config.yml file. We can configure the strategy to route the traffic, it defaults to round-robin if the strategy is not specified