Serverless Computing for IOT 2019/20

Project Proposal

I always have some friend that ask me to explain some difficult concept about computer science topics. I don't have so much time to answer them with all the stuff they need to understand all the concepts, and the story ends with me that send them some links about articles on Wikipedia,

So I would like to create a system that help them to find easily the right link to Wikipedia to solve all their problems, just putting the name of the topic in a bar. The application should send back them an exact result, if the word is equals to a page on the wiki, or maybe a list of the most correlated topic in Wikipedia.

I thought about a system that could work with the following points:

1. A client writes on a MQTT queue a word
2. The word is read and a function starts to call Wikipedia API to retrieve some pages and informations related to that word
3. The function pack the informations and place it on the topic for the client
4. The function also write some information about the queries for logging

Architecture

Devices → MQTT Topic → Nuclio → W → MQTT Topic → Devices / Log