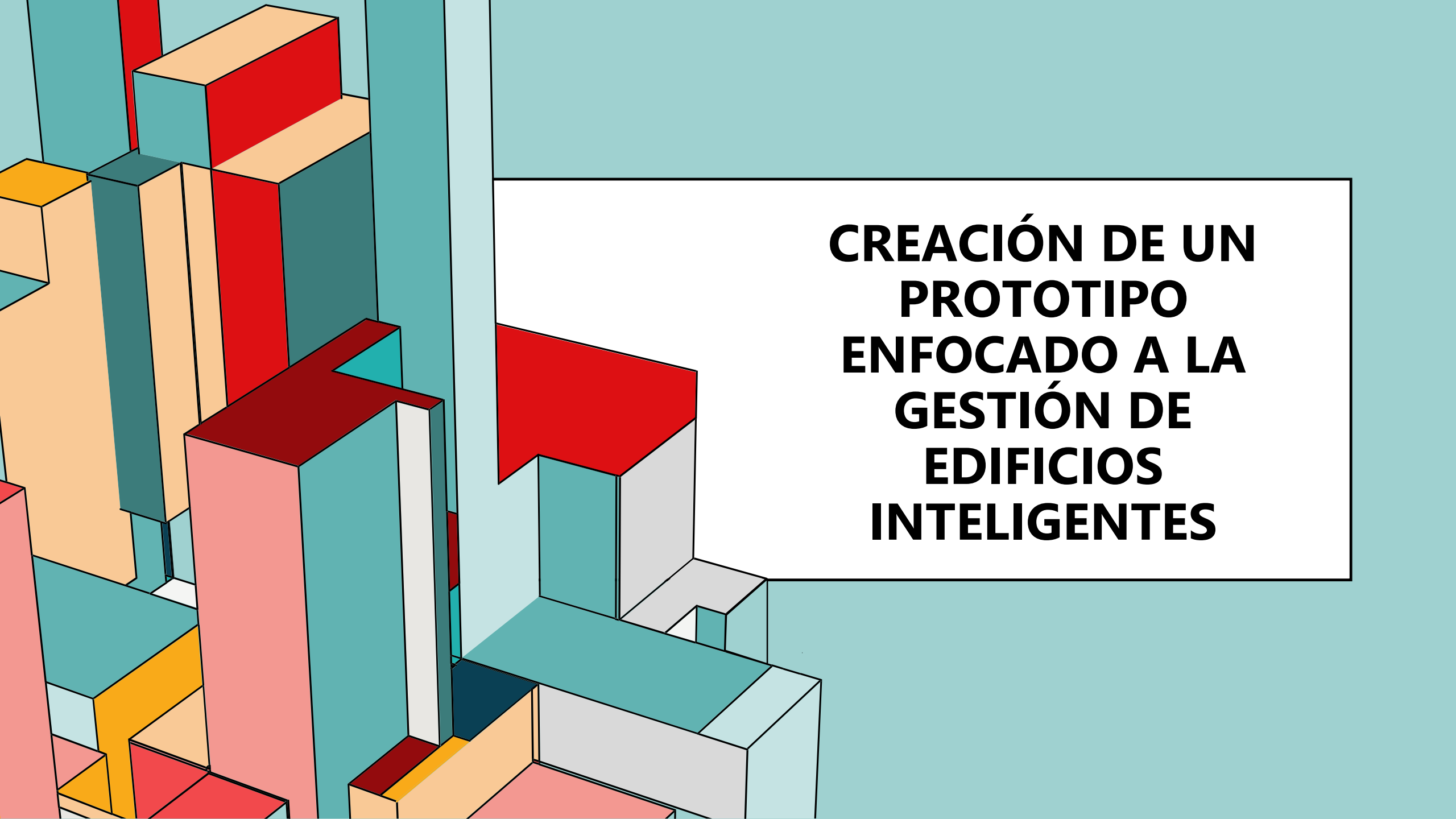


The background of the slide is an abstract composition of various 3D geometric shapes, including rectangular prisms and blocks, in a variety of colors such as teal, orange, red, pink, and light blue. These shapes are arranged in a layered, isometric fashion, creating a sense of depth and architectural structure. On the right side, a white rectangular box with a thin black border contains the main title text.

CREACIÓN DE UN PROTOTIPO ENFOCADO A LA GESTIÓN DE EDIFICIOS INTELIGENTES

Desarrollar un prototipo web para la gestión de edificios inteligentes que integre múltiples dispositivos IoT, facilitando una comunicación fluida y en tiempo real. Este prototipo proporcionará a los usuarios información clave, facilitando la toma de decisiones informadas y mejorando la eficiencia operativa y energética del edificio.

COMPONENTES

1

KPIs y Frontend

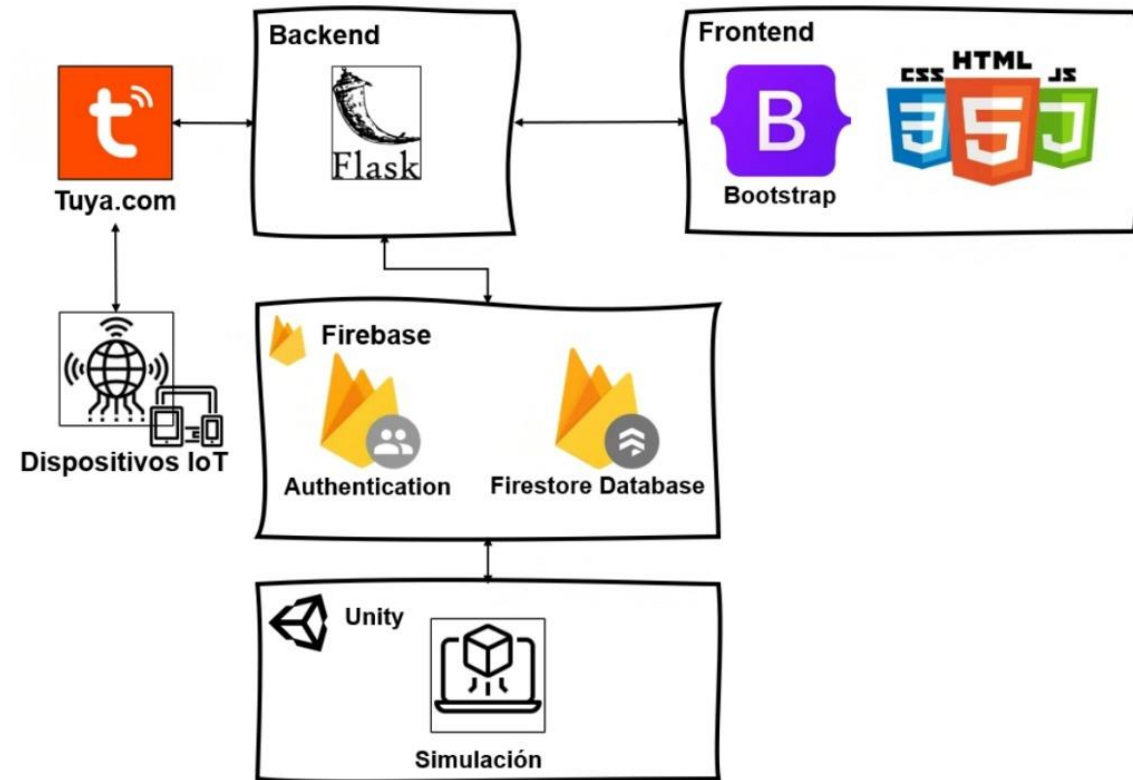
2

Backend y
dispositivos

3

Simulación

DIAGRAMA DE ARQUITECTURA



BACKEND

KANBAN



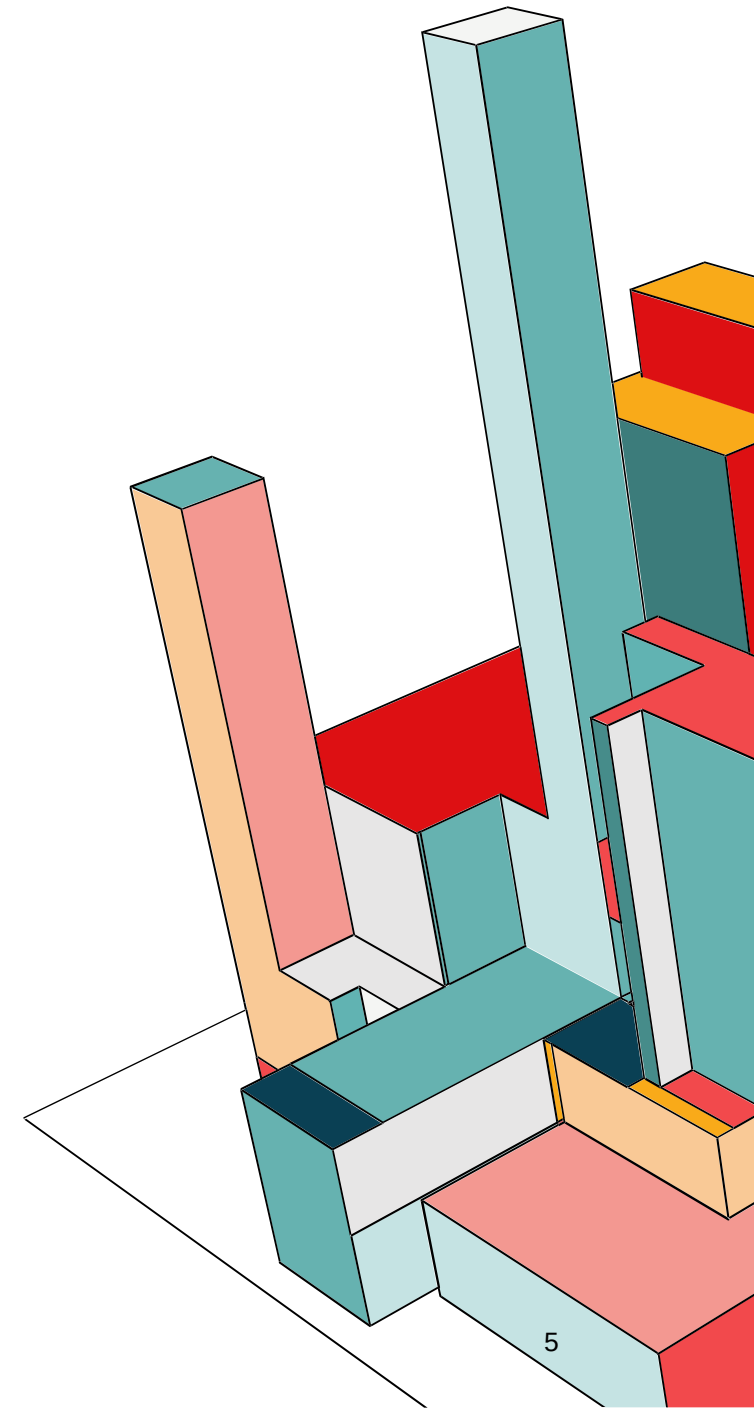
FLASK



SELECCIÓN DE DISPOSITIVOS IOT

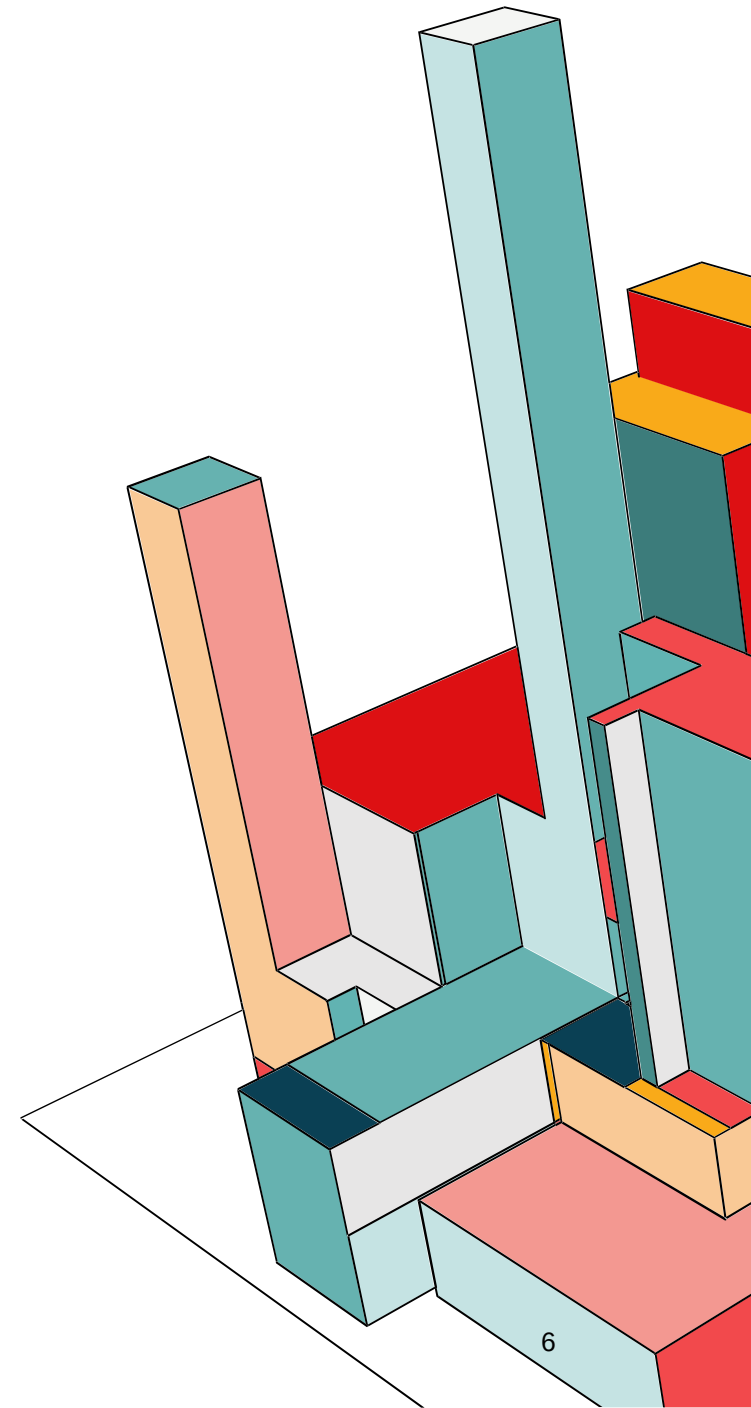


FIREBASE



PETICIONES HTTP

```
[2024-09-10 20:42:07,274] [tuya-openapi] Request: method = GET,  
url = https://openapi.tuya.com/v1.0/iot-03/devices/03200309dc4f2219bc50/status  
,  
    params = None,  
    body = None,          t = 1726018927274  
[2024-09-10 20:42:07,544] [tuya-openapi] Response: {  
  "result": [  
    {  
      "code": "switch_led",  
      "value": false  
    },  
    {  
      "code": "colour_data",  
      "value": "{\"h\":272.0,\"s\":255.0,\"v\":255.0}"  
    },  
    {  
      "code": "switch_1",  
      "value": false  
    }  
  ],  
  "success": true,  
  "t": 1726018927498,  
  "tid": "0defd3a26fdf11ef854562b70461f1d6"  
}
```



TUYA DEVELOPER PLATFORM

 Developer Platform

HelpDocumentsTech SupportEnglish(EN)My Space



 Overview

 Product

 App

 Cloud

 Data

 Operation

 Purchase

 VAS

My cloud project [Switch Project](#)

Guide Mode: Smart HomeIndustryCloseWestern America Data Center

OverviewAuthorizationService APIDevicesMessage ServiceProject SaaS

You can add devices to a project by using the Smart Device Management app, and can also link device resources of other apps. [Operation Guide](#) [View Device Linking Methods](#)

All DevicesLink My AppLink My WeChat Mini ProgramLink App AccountLink SaaS

View Devices by Product.

LDV SMART+ CLA60 9W RGBW BIV E27
Devices:1Standard Instruction

象尚美规插座RGB
Devices:1Standard Instruction

国标一路开关 (触摸) _Wi-Fi & Bluetooth LE
Devices:1Standard Instruction

ChooseDevice TypeDevice PermissionProductEnter device name, or d...SearchResetAdd Device

Device Name	Device ID	Product	Source	Online Status	Device Type	Activation Time	Device Permission	Operation
Smart light	eb4f5e6ca883ad7479mawe	LDV SMART+ CLA60 9W RGBW BIV E27	Asset Path-My asset	Offline	Real Device	2024-08-21 10:48:40	Controllable	Debug Device
Computer plug	03200309dc4f2219bc50	象尚美规插座RGB	Asset Path-My asset	Offline	Real Device	2024-08-21 10:46:58	Controllable	Debug Device
Light switch Virtual	vdevo170000581142241	国标一路开关 (触摸) _Wi-Fi & Bluetooth LE	Asset Path-My asset	Online	Virtual Device	2023-11-14 18:50:11	Controllable	Debug Device

7