

This project is a Smart Home / IoT control application that allows users to manage and control their Smart Life (Tuya-based) smart devices through a single custom app instead of relying on the default Smart Life interface.

The application provides a centralized and user-friendly experience where users can view their connected devices, check real-time status, and perform actions such as turning devices on or off, changing modes, or managing basic device settings.

The app securely connects users to their own smart devices using cloud-based authorization, ensuring privacy and access control. Only devices that belong to or are authorized by the user are visible within the app. The application does not communicate directly with physical devices but operates through a secure cloud platform to send commands and receive updates.

The platform is built using the MERN stack (MongoDB, Express.js, React, and Node.js), enabling a scalable, flexible, and modern application architecture suitable for both personal use and future commercial expansion.

User and device relationships are organized within the system to support better management, monitoring, and future enhancements such as analytics, automation, multi-user access, or subscription-based features.

The overall goal of this project is to create a reliable, secure, and scalable smart device management application that can serve homes, offices, and businesses, while also acting as a foundation for a full-fledged smart-home or IoT SaaS platform.