Project Setup Guide

1. Hardware Setup

Plug the smart plug into your device and connect it to the electricity.

2. Account Setup

- Install the Smart Life app on your smartphone.
- Create an account in the Smart Life app and add your smart plug device.
- Create an account at Tuya IoT Platform: https://developer.tuya.com/
- Create a project in the Tuya developer console and link your Smart Life account.
- Get the following details from the Tuya console:
- Device ID
- Client ID
- Client Secret
- - Tuya API Region (e.g., `us`, `eu`, `in`, etc.)

3. MongoDB Setup

- Create a free cluster at https://www.mongodb.com/cloud/atlas.
- Get the connection URI string for your MongoDB cluster.

4. Backend Setup

- Unzip the backend folder.
- Create or recreate a `.env` file with the following variables:
- `MONGO_URI=`
- `TUYA_CLIENT_ID=`
- `TUYA_CLIENT_SECRET=`
- `TUYA_DEVICE_ID=`
- `TUYA_API_REGION=`
- Run the following commands to start the server locally:
- `npm install`
- - `npm run dev`

5. Backend Deployment

Push your backend code to a GitHub repository.

- Create a new application on Render (https://render.com/) and connect it to the GitHub repository.
- Deploy the backend from Render.

6. Frontend Setup and Deployment

- Unzip the frontend folder.
- In the frontend directory, run:
- `npm install`
- `npm run dev` to test locally
- Push the frontend code to a GitHub repository.
- Deploy the frontend to Vercel (https://vercel.com/) by importing it from GitHub.

7. Final Notes

- Ensure all environment variables are securely stored.
- Monitor logs in Render and Vercel for any runtime issues.
- You now have a fully working setup!