**Investigate an IoT project**

**Instructions**

There are many large and small scale IoT projects being rolled out globally, from smart farms to smart cities, in healthcare monitoring, transport, and for the use of public spaces.

Search the web for details of a project that interests you, ideally one close to where you live. Explain the upsides and the downsides of the project, such as what benefit comes from it, any problems it causes and how privacy is taken into consideration.

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There is an IoT project called the IoT Solar Lamppost which was done by a group of student from the HITC university in 2024.

Link to news article: <https://ddt.hitu.edu.vn/du-an-iot-solar-lamppost-iot_slp-dat-giai-nhat-tai-cuoc-thi-sinh-vien-hitc-voi-y-tuong-khoi-nghiep-sang-tao-2024/>

**Description:** IoT\_SLP is a smart solar-powered lamppost with integrated Wi-Fi, environmental monitoring, security cameras, and phone charging. Users can control it remotely via an app.

**Benefits:**

* Camera surveillance enhances street safety for pedestrians and helps deter criminal activities.
* Proper illumination improves nighttime traffic safety, allowing drivers to navigate more reliably.
* Integrated sensors optimize energy consumption by automatically adjusting lighting based on the number of people nearby.

**Drawbacks:**

* IoT devices, if not securely implemented, are vulnerable to hacking, potentially exposing live camera feeds and posing serious privacy risks.
* Increased surveillance may be intrusive and could be misused by authorities to monitor citizens for various purposes.