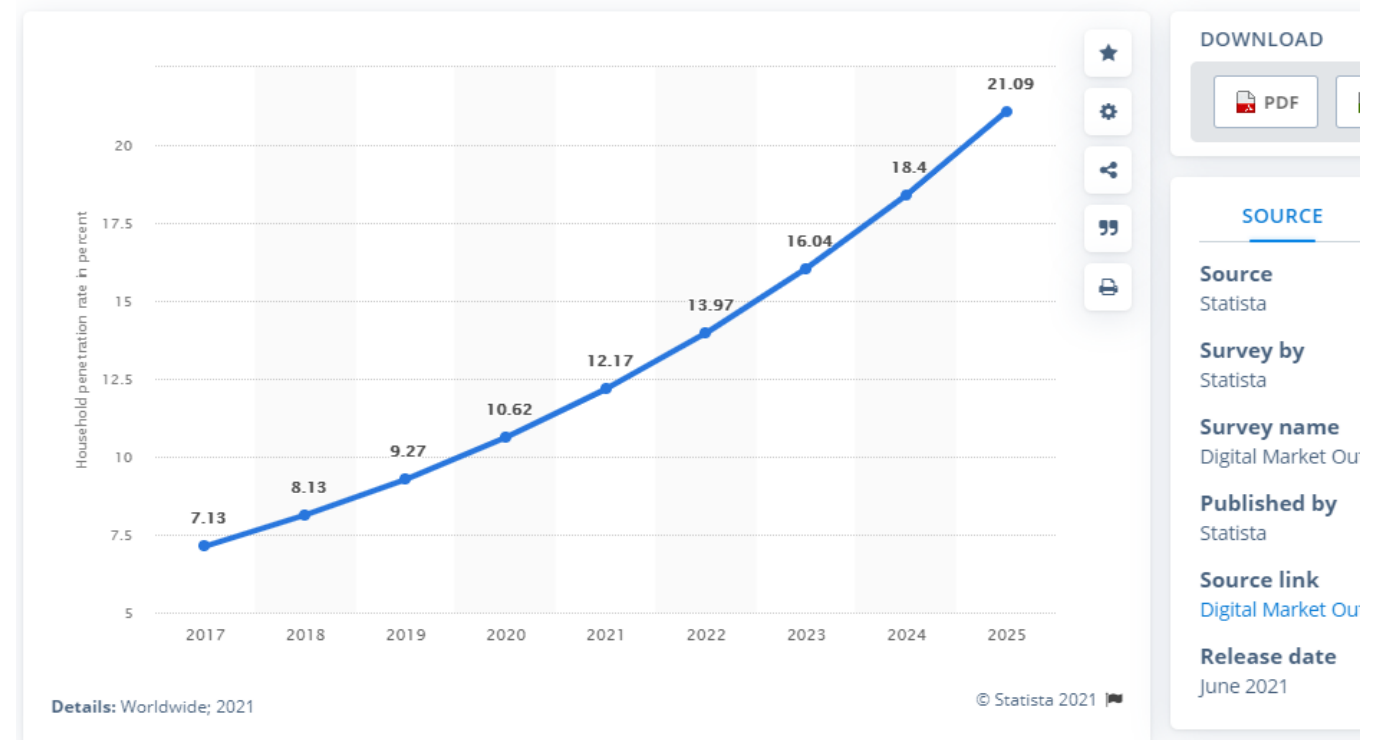


EE3070 Project Design

Main Theme: Smart Home

- Smart homes use connected devices and appliances to perform actions, tasks, and automated routines to save money, time, and energy.
- Home automation systems allow for the integration of various smart devices and appliances controlled through a centralized system.

Smart Home penetration rate forecast in the World from 2017 to 2025



- How to add intelligent and make a living place more smart?



10 Creative Home Automation Ideas

- <https://www.youtube.com/watch?v=Y05tYZ5Lwvg>

中電耆樂新一天 (elderly)

https://www.youtube.com/watch?v=5x_uBnKj5ig

CleverPet

- <https://www.youtube.com/watch?v=9H4577C3p-g>

Imagine You Are

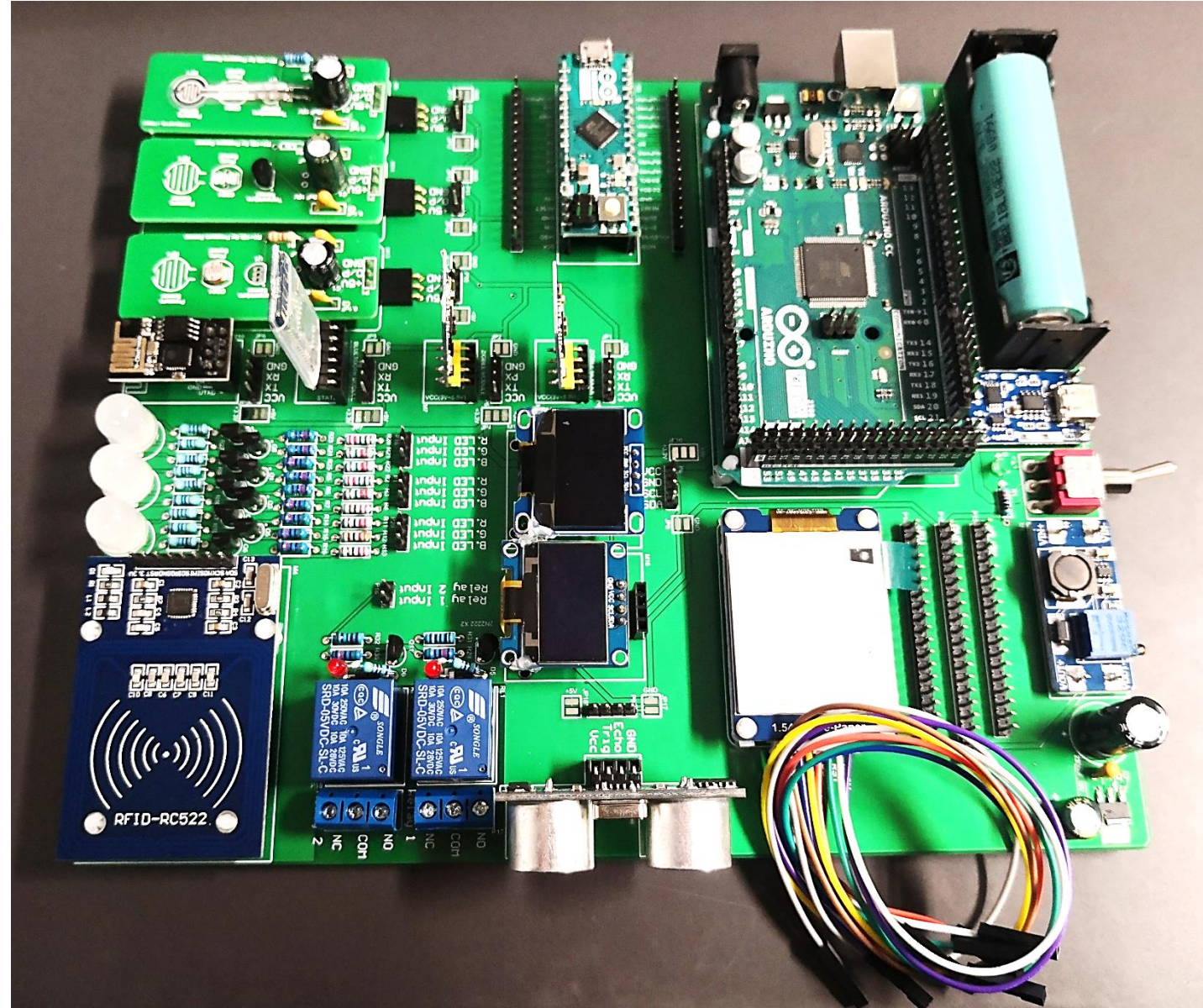
- In a project team, to suggest and provide solution for an issue in a living place
- to win a contract
 - You are competing with other groups aiming for the contract



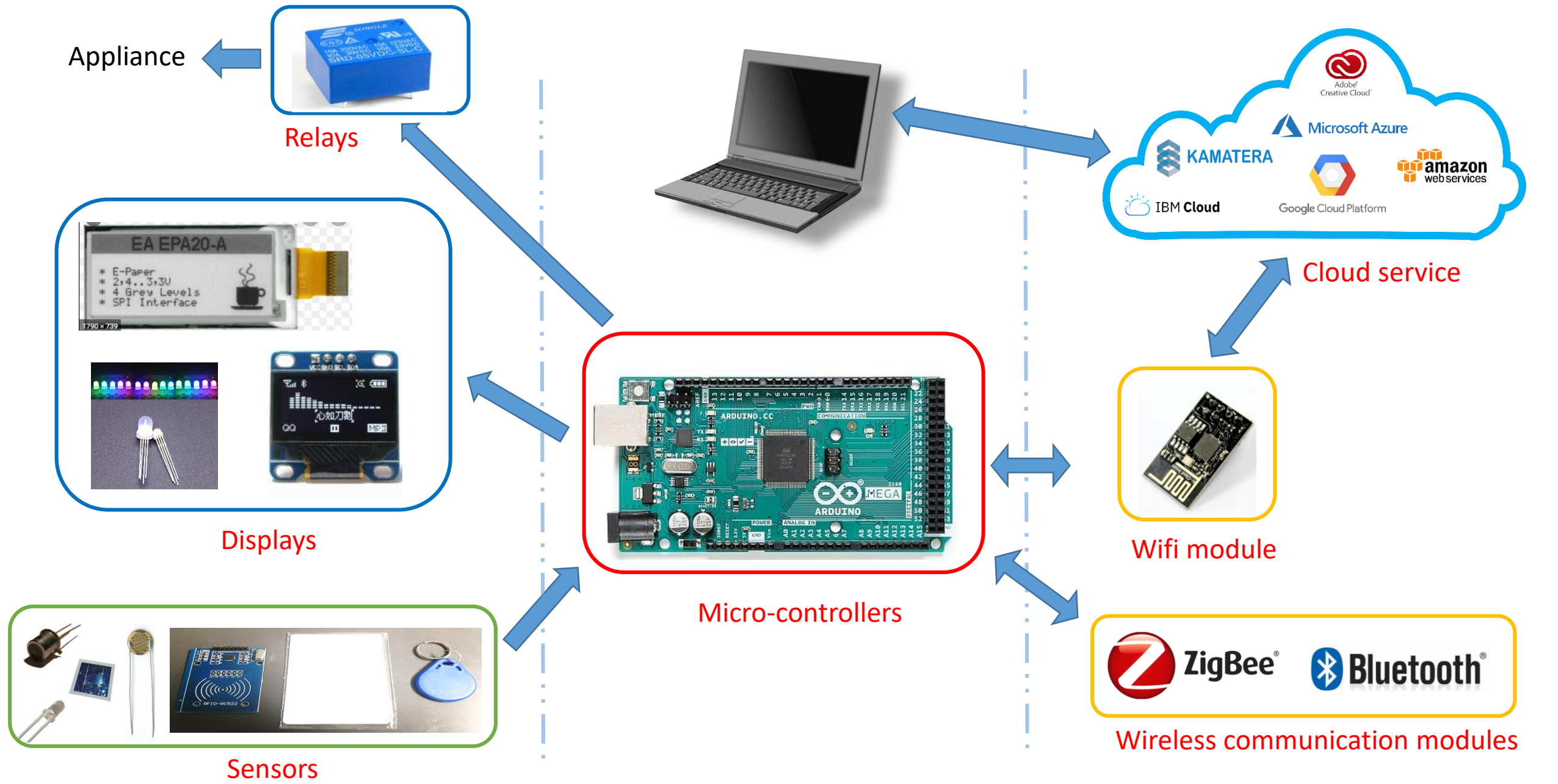
Project Management



Generic Platform



General System Architecture



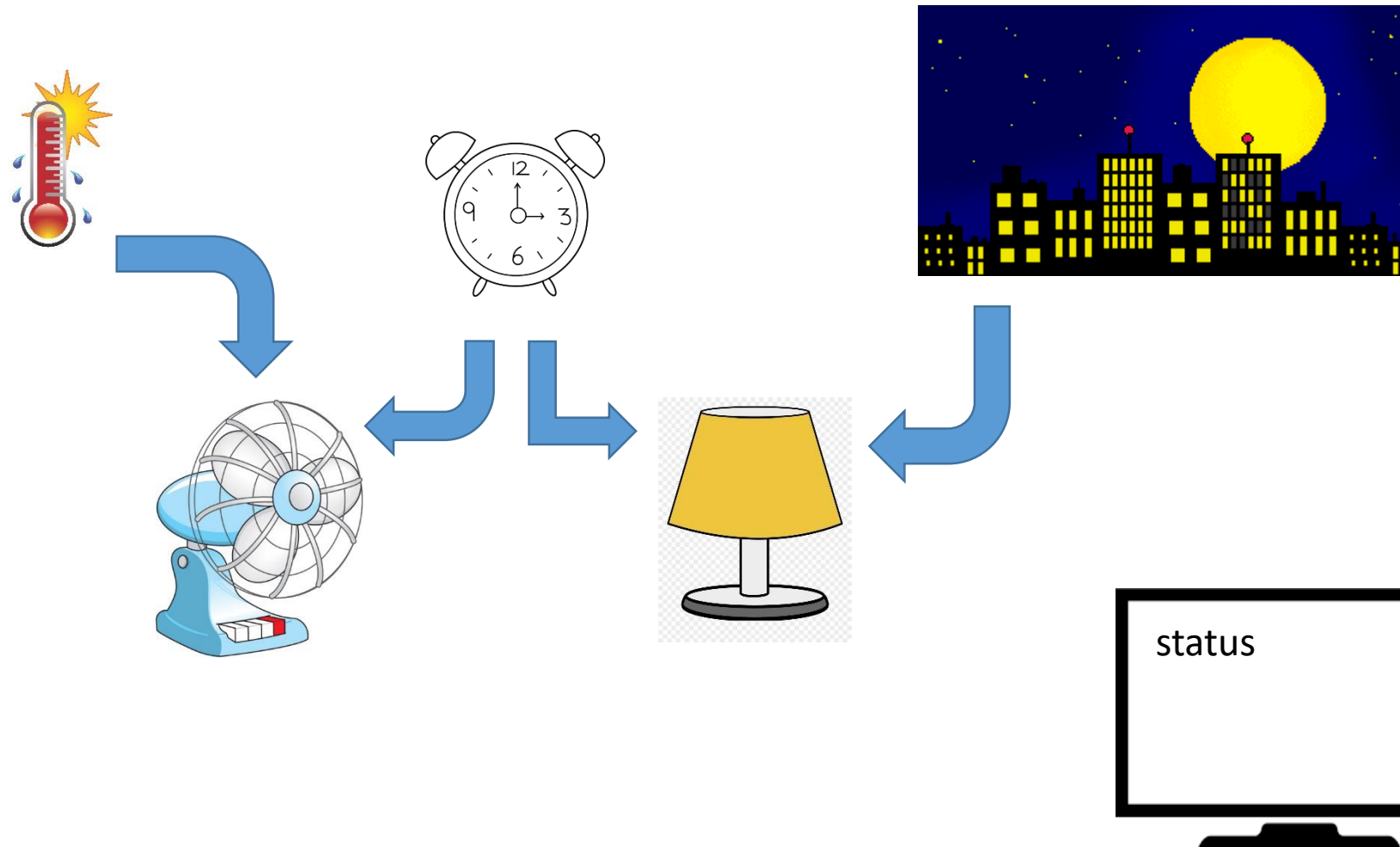
Define Phase

- What scenarios that you are targeting for smart home?
- How can your idea enhance the living / help people?
- What is the design scope?

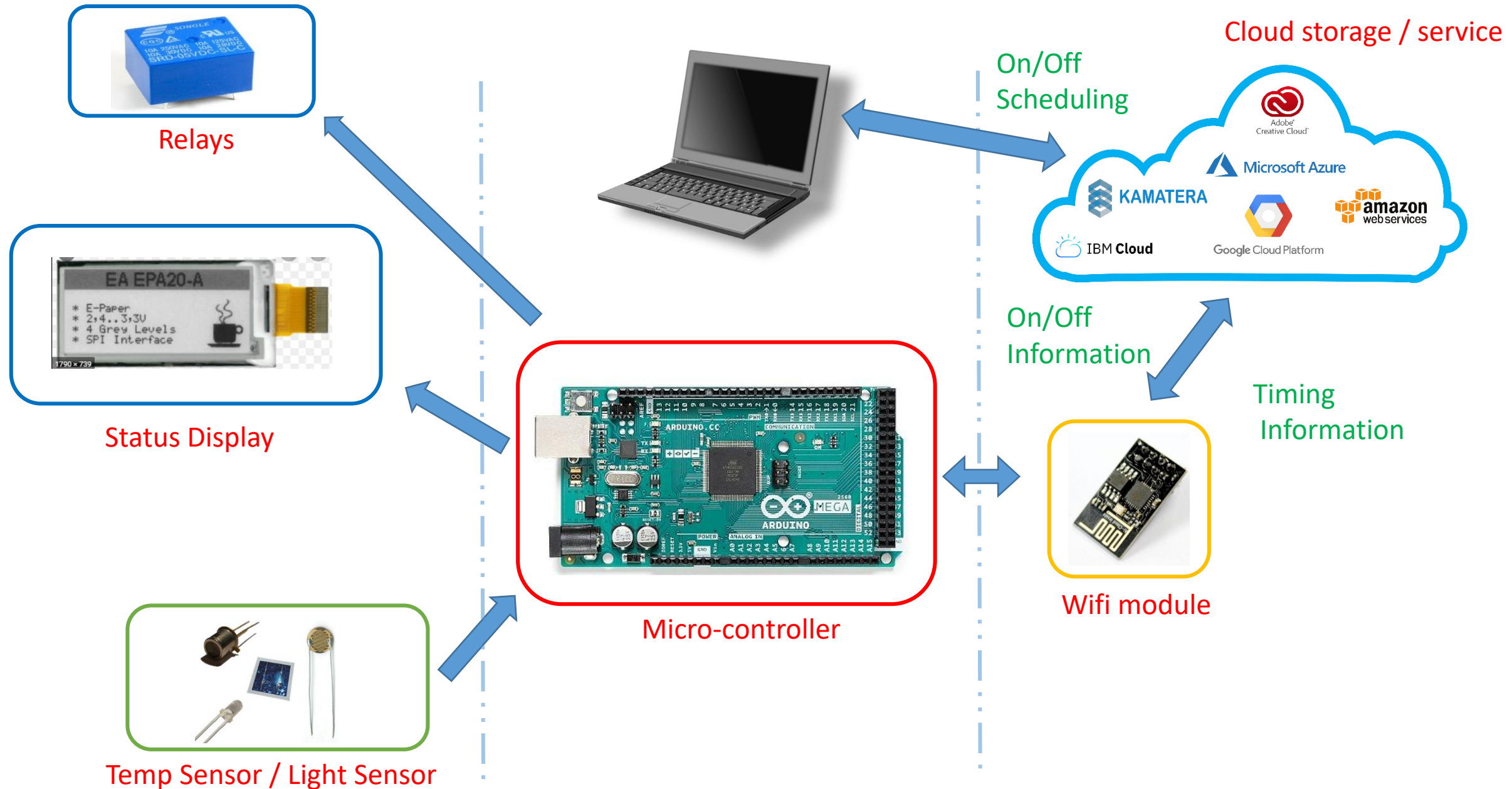
Plan

- How can the design platform fit for the scenario?
- What are needed to further advance your design?
- What the team need to do? Can it be finished within the timeframe?
- What are the risks?

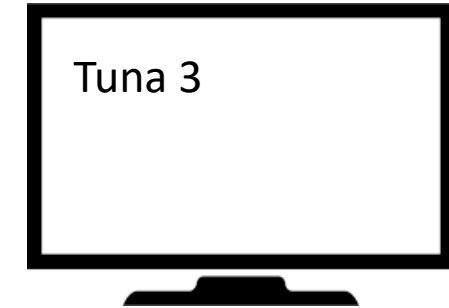
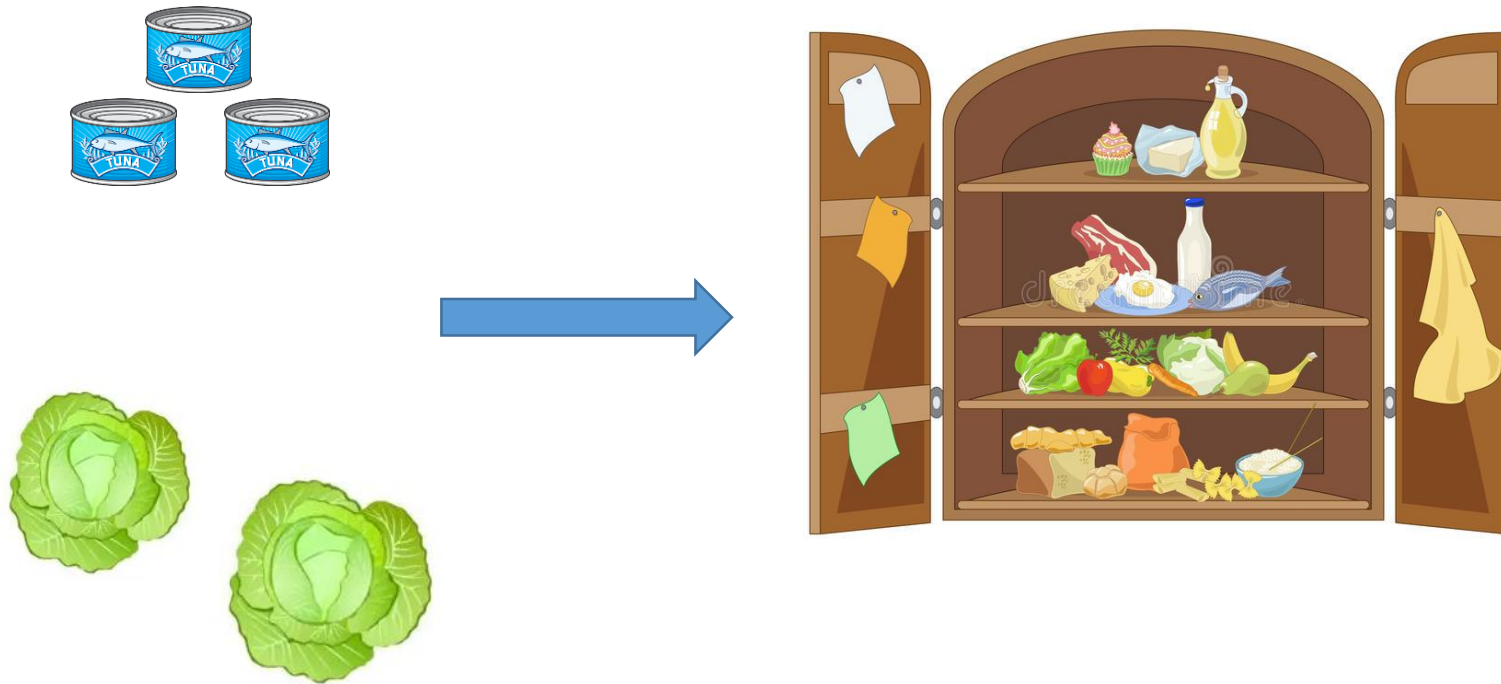
Example 1: Appliance Control System



General System Architecture



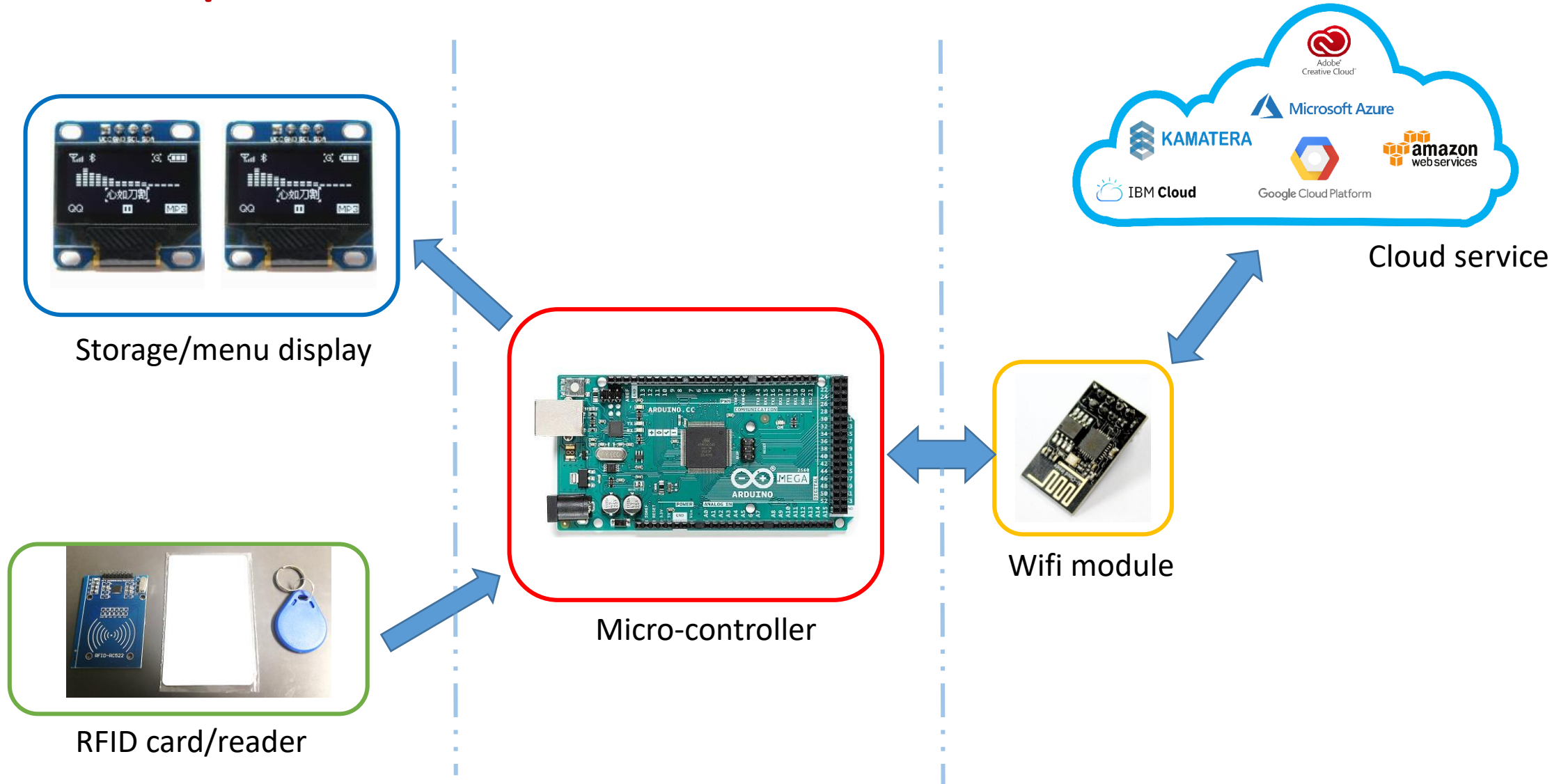
Example 2: Smart Cabinet



Disk suggestion



Basic Sample Kit for Smart Carbinet



The project proposal and outcome are to be

- Creative
- Practical and Giving Effective Solutions
- Attractive Outputs
- And well demonstrate solid and advanced (in UG level) technical contents
 - Multiple and interdependent functions
 - User-machine OR machine-machine communications
 - ...

END