

## 1<sup>st</sup> Project: **Build a Test Smart Home Application in Node.JS**

1. Motivation
  - A. Do programming exercises on how to write a program in Node.JS
  - B. Study how to design Smart City applications
2. Objectives
  - A. (Home Appliance Modules) Design at least five home appliances (e.g., TV, Audio, Lamp, Security Alarms, Air Purifier, Lamp) as Node.JS Modules. Each appliance is implemented as a separate module.
  - B. (Smart Home Service Modules) Design at least five smart home services as Node.JS modules. These service modules use home appliance modules in an intelligent way. For example, when going out for work, all the home appliances are turned off and the security alarm is turned on.
  - C. (Testing module) A module is designed to test those service and home appliance modules.
3. Reports
  - A. Document
    - i. Home Appliances: Design & Code
    - ii. Smart Home Services: Design & Code
    - iii. Testing
  - B. Code Files
4. Deadline
  - A. Oct. 13