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| <<Simple Life>> 會議記錄 | | | | | | | | | | |
| 會議日期 | | 2015/04/27 | | | | | | | | |
| 時間 | | 12:00~14:00 | | | | | | | | |
| 地點 | | 新數205-3 | | | | | | | | |
| 主持人 | | 江建德 | | | | | | | | |
| 紀錄者 | | 江建德 | | | | | | | | |
| 目的 | | Requirement refine | | | | | | | | |
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| 會議議程 | | | | | | | | | | |
| 1. 會議名稱：Feasibility study 2. 會議日期：2015/04/20 3. 會議討論議題：於下個欄位中 4. 問題討論： 5. 臨時動議： 6. 散會 | | | | | | | | | | |
| 會議討論議題 | | | | | | | | | | |
| 1. Draw block diagram 2. Requirements: 3. The user is able to use their cellphone app to send commands to a main controller through a WiFi connection.  * The commands will be transmitted to electronic appliances by a signal connection. * The commands will perform operations on the electronic appliances, such as turning on, turning off, and changing settings on electronic appliances. * Electronic appliances may include lights, switches, and air conditioners.  1. A signal emitter and a signal receiver form a signal connection, which is registered to the main controller with an ID. Signal emitters are installed on the main controller, and signal receivers are installed on electronic appliances.  * Signal emitters and signal receivers may include WiFi-based, and IR-based.   + WiFi-based signal connection will control electronic appliances such as light switches.   + IR-based signal connection will control electronic appliances such as air conditioners.  1. The main controller receives sensory data from sensors.  * Sensors include temperature sensors, motion sensors and humidity sensors.  1. The main controller receives current cellphone GPS location from cellphone, IR patterns for IR-based signal connections from cloud server, and save user-specific data such as home location and user habits.  * User-specific data are identified with a user ID.  1. The main controller contains a decision maker, which may decide to perform operations on the electronic appliances through user predefined schedule.  * The main controller contains a scheduler which allows the user to configure operations which will be completed automatically at defined times during a day or week. * The main controller generates charts from user information, and sends notification to user when the cost of electricity exceeds threshold. * User sets a specific temperature and humidity for the decision maker to maintain by controlling the electronic appliances. * When distance between cellphone GPS location and home location less than 1km, the decision maker sends notification to user to ask whether turn on electronic appliances or not. * If cellphone GPS location is not at home and motion sensor detects someone nearby, the decision maker will send alarm to user. * The decision maker will ask the user to turn off the light when the motion sensor detects nothing in a predefined duration (default 2 hours).  1. The cloud server is provided by us, and all the main controllers will download data from this server.  * The cloud server stores the real time price of electricity and IR code libraries. * Electronic appliance companies can upload new product’s IR codes to the cloud server.  1. The cellphone interface  * Switching interface controls electronic appliances on or off. * Login interface let user enter account id and password. * Schedule interface let user set start time, duration, temperature and humidity. * Chart view interface displays charts. * Application interface let main controller scan IR Code. * Setting interface let user set function on or off. | | | | | | | | | | |
| Action Item後續處理項目 | | | | | | | | | | |
| 編號 | 處理動/ | | | 負責人員 | | | 處理期限 | 狀態 | | 備註 |
|  | 查詢提示燈泡如何供電 | | | 陳俊甫 | | | 0324 | **Closed** | |  |
|  | 查詢價格 | | | 陳聿懷 | | | 0330 | **Closed** | |  |
|  | RPi information | | | 楊子權 | | | 0415 | **Closed** | |  |
|  | Connection btw RPi and Arduino | | | 陳聿懷 | | | 0415 | **Closed** | |  |
|  | Port Forwarding | | | 呂昶毅、陳俊甫 | | | 0511 | **Ongoing** | |  |
|  | ESP8266 programming study | | | 陳聿懷 | | | 0518 | **Open** | |  |
|  | Use WiFi as an AP on setting mode | | | 江建德 | | | 0518 | **Open** | |  |
|  | Main controller as server and database | | | 楊子權、許庭柯、許家維 | | | 0511 | **Open** | |  |
| 下次會議 | | | | | | | | | | |
| 日期 | | | 時間 | | 地點 | | | | | |
| 4/28 | | | After class | | 德田110 | | | | | |