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| <<Simple Life>> 會議記錄 | | | | | | | | | | |
| 會議日期 | | 2015/04/20 | | | | | | | | |
| 時間 | | 12:00~14:00 | | | | | | | | |
| 地點 | | 新數205-3 | | | | | | | | |
| 主持人 | | 呂昶毅 | | | | | | | | |
| 紀錄者 | | 呂昶毅 | | | | | | | | |
| 目的 | | Draw block diagram and division of work | | | | | | | | |
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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 mainframe 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 mainframe controller with an ID. Signal emitters are installed on the mainframe 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 mainframe controller receives sensory data from sensors.  * Sensors include temperature sensors and humidity sensors.  1. The mainframe controller receives weather data, IR patterns for IR-based signal connections, and user-specific data such as home location and current cellphone GPS location.  * User-specific data are identified with a user ID.  1. The mainframe controller contains a decision maker, which may independently decide to perform operations on the electronic appliances through a decision procedure calculated from sensory data, weather data, and user-specific data.  * The mainframe controller contains a scheduler which allows the user to configure operations which will be completed automatically at defined times during a day or week.  1. Total diagram based on requirement        1. Diagram of hardware connections      1. Division of work    * 1. Controller and AP: Raspberry Pi(RPi) how to transmit data to transmitter and how   to get data from AP;  User’s home is floating IP, so we need port forwarding to connect  with cellphone。   * + 1. Controller and transmitter：connection between RPi and Arduino  1. Discussion    * 1. Controller and AP:   Port forwarding – must build a dynamic DNS table with NoIP   * + 1. Raspberry Pi   OpenJNI – can use java   * + 1. Connection between Raspberry Pi and arduino   NRF, RFDuino | | | | | | | | | | |
| 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 | | **Close** |  | |
|  | 查詢價格 | | | 陳聿懷 | | 0330 | | **Close** |  | |
|  | Port Forwarding | | | 江建德 | | 0415 | | **Ongoing** |  | |
|  | RPi information | | | 楊子權 | | 0415 | | **Ongoing** |  | |
|  | Connection btw RPi and Arduino | | | 陳聿懷 | | 0415 | | **Ongoing** |  | |
| 下次會議 | | | | | | | | | | |
| 日期 | | | 時間 | | 地點 | | | | | |
| 4/21 | | | After class | | 德田110 | | | | | |