淡江大學資工系－專題實驗記錄表

105.09.22 105學年度第1學期第1次系務會議討論通過

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| 一、指導教授：陳建彰教授 | | | 二、組別：居家健身姿勢準確度偵測 | | |
| 三、日期：2023年2月25日 | | | 四、地點：教授家中 | | |
| 五、專題進度：  This week, we decided to add a feature called hand detectors. This feature will help the user to choose what movement they want to do or what kind of activities they want to choose based on the menu that is shown on the screen. This feature also allows the user to control the menu from a certain distance so they don't need to come closer or reach the device every time they want to change or go back from one activity to activity or option to another option. | | | | | |
| 六、專題討論內容大綱：  We discussed how to implement the hand detectors into the program and we concluded that, by utilizing the numbered list of activities (the main menu) that show up on the screen, the user can choose the activity by moving the hand gestures or raising the fingers based on the activity’s number. For example, if the user wants to select activity number 1, they can simply show their hand to the camera and raise the index finger while the other fingers lower down. If the user wants to choose activity’s number 2, they can raise up their index finger and middle finger, and so on for the other number. | | | | | |
| 七、評論與討論：  After testing the code, it ran well but sometimes the computer didn’t read the hand properly, resulting in the computer choosing the wrong activity. But after several tries, we realized the background of the camera affects the hand detection. But most importantly, the speed of raising and lowering also affects the detection. So, the user needs to immediately put their hand down after choosing the activity to avoid misreading by the computer. | | | | | |
| 六、出席學生：須簽到 | | | | | |
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實驗助教簽名：*、*指導教授簽名：

註1：每週之專題實驗紀錄表，每組每週需繳交1份，紀錄表內容字數不得少於250字。上傳後之實驗紀錄表由系辦助教審核。