**SMART APPS FOR CHINESE MEDICINE PREPARATION (JQ3-12)**

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**Instruction**

Chinese medicine consists of a lot of herbal remedies, which need to be handled by dispensary staff one by one. Therefore, if the staff pick the wrong herbs, all of the prescriptions of this Chinese medicine are useless for the patient. In traditional hospitals, dispensing of the wrong medicines by the staff has often happened.

In our project, Chinese doctors will only write the suitable prescriptions in the tablet for each patient, and then send the prescriptions to the Bluetooth. When the data is received by the tablet, the app will transmit a control signal to the cabinet, and the LED will turn on.

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**Objectives**

Through the Android app, we will modernize the processing of doctors’ consultations with Chinese medicine doctors and design the app to be convenient for Chinese medicine doctors and staff to use. Thus, we can help Chinese medicine doctors to reduce sending times for picking medicines, and reduce human error in picking the wrong medicines.

**Methodology**

**Hardware**
- Design the circuit
- Make a Printed Circuit Board (PCB) layout and put all the electronic components into the PCB

**Software**
- Use Bluetooth connecting two tablets and send data (drug list) from the doctor side to the dispenser side.
- Receive data and save as a file in the dispenser side.

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**Results**

**Doctor layout**

**Dispenser layout**

**Chinese medicine cabinet**

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**Hardware**

- **MCU and PCB test**
- **Create user layout**

**Software**

- **Bluetooth**
- **Combine and Test**

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**Final Year Project**