# NUS Second-hand Book Selling Machine

The objective of our project is to solve the problem facing in 2$^{nd}$-hand book sale in campus. For example, using IVLE forum, it usually needs 2-3 days to get the book. On the other hand, the book sale organized by club needs lots of manpower and the charge is high.  In our project, each service is within 3 minutes and there is an integrated service flow.



There are 4 main services in the system.

1.  BUY
    There are 2 different services under it.
    1.  "List all", the system will list all books inside except for their selves'.
    2.  "Search", user key in the module, then system list books satisfied the demand. If there is no book found. The system will ask the user to receive a reminder or not when the book is available.
2.  SELL
    After the user key in the module, the system will show a medium price of 20SGD. User can press up and down key to adjust the price or key in the number directly.

    Once the book is sold, the seller gets an SMS notification.
    In the case of the book is not sold for 2 weeks, the system will send a reminder. By replying  a new price, the system will update it.
3.  MY BOOK
    There are 2 different services as well.
    1.  "Change Price", user can change the price by scroll up and down key. Every time increase or decrease by 20%.
    2.  "Withdraw", the use withdraw the book in sell.
4.  QUICK BUY

    This service is very efficient when there are lots of book inside the machine. When the purchaser sees the book from the door, he can use this service by only key in the slot NO.

In the progress of each service, there are voice instructions and door control service.