The development of Books Utilization Measurement and Security System

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Where are we from?

Taipei Medical University Library

Established in 1962
6,000+ students
500+ faculty

3,300 m^2
600 + seats
90 + public PCs

15,000+ volumes of books
80,000+ e-books
15,000+ e-journals
110+ databases

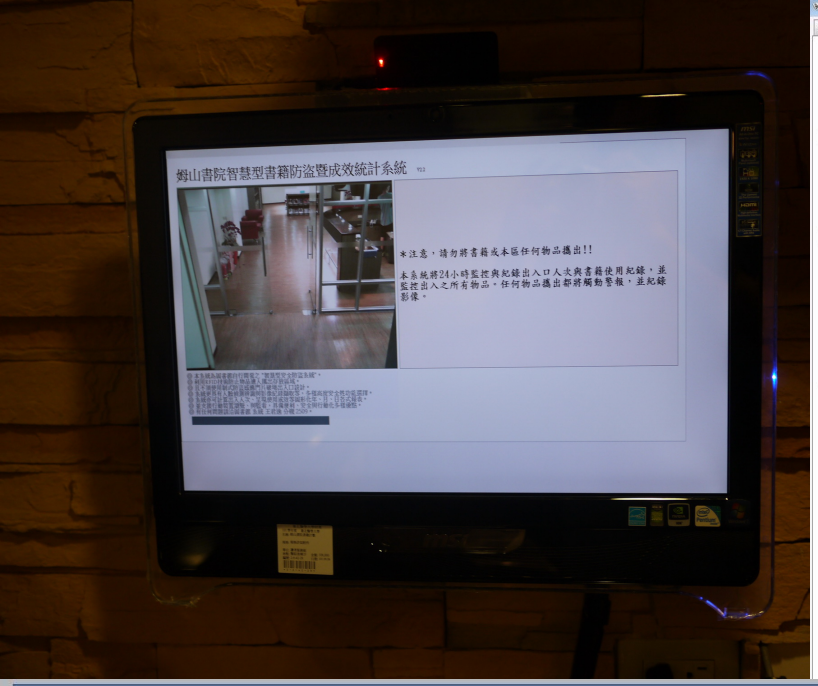
CAUSE

- With the idea of dormitory learning commons, Taipei Medical University Dormitory Management Group established Mu-Shan learning commons in the basement of the dormitory.
- Furthermore, with the support from Taipei Medical University Library, Mu-Shan learning commons provides students with thousands of books and tens of magazines from diverse subjects.
- However, we still need to trace the utilization rate and make sure that all the items won't be taking away.

DESIGN

- This system is designed by the staff of the TMUL, and gets the Taiwan patent.
- We install infrared counter onto the book shelves; therefore, the system will count up when users grab the book from the shelf.
- With a matching list in the database, we then apply RFID tag on every item, gadget and furniture, which suggests that no items could be taken away without being noticed.
- Furthermore, with the patented Un-gated Security System, there'll be warning alarm and photo-taking strategy when an item is taken away. Meanwhile, the photo and the list of lost item will be presented on the computer.

親愛的同學們：
為了學貼及培養同學自
治精神，我們準備了
10元咖啡，歡迎你來
使用：讓我們一起營造充
滿書香的咖啡書の相心



台北醫學大學圖書館-各專區使用紀錄統計系統

[登入]

圖書館各專區統計 | 拇山書院使用統計 | 出入口統計 | 防盜感應

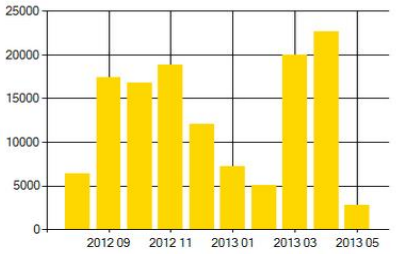
拇山出入口統計

- 感應器：
- 出入口：
- 姓名：
- 日期範圍：
  (日期格式範例為2012/4/24，若格式不正確將出現錯誤)

更新紀錄

Y2013M5D5_h11m28s43.jpg
Y2013M5D5_h11m28s44.jpg
Y2013M5D5_h11m28s45.jpg

總和圖表



分時統計數目

月份	數量
2012 08	6443
2012 09	17393
2012 10	16791
2012 11	18838
2012 12	12075
2013 01	7209
2013 02	5034
2013 03	20011
2013 04	22636
2013 05	2766

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 ... >>

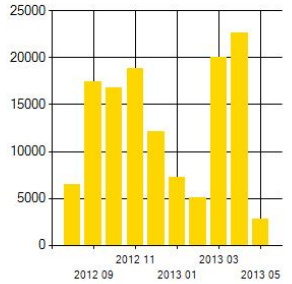
	id	時間	感應器
選取	467318	2013/5/5 下午 12:18:17	17
選取	467317	2013/5/5 下午 12:18:15	17

台北醫學大學圖書館-各專區使用紀錄統計系統

[登入]

圖書館各專區統計 | 拇山書院使用統計 | 出入口統計 | 防盜感應

姆山書院使用人次統計



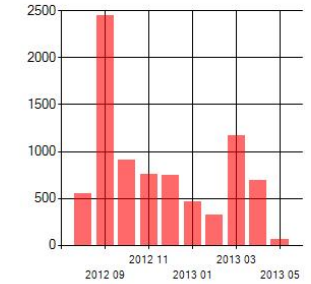
查詢時間範圍 (自2011/9/1起)

2011/9/1 ~ 2013/5/5

依目前設定時間查詢

month	total
2012 08	6443
2012 09	17393
2012 10	16791
2012 11	18838
2012 12	12075

書架A區使用人次統計



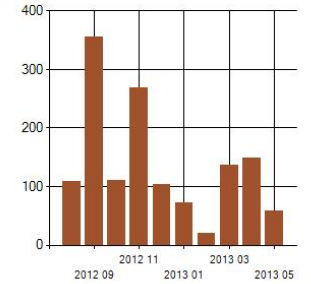
查詢時間範圍 (自2011/12/1起)

2011/5/1 ~ 2013/5/5

依目前設定時間查詢

month	total
2012 08	548
2012 09	2448
2012 10	907
2012 11	761
2012 12	741

書架B區使用人次統計



查詢時間範圍 (自2012/5/1起)

2012/5/1 ~ 2013/5/5

依目前設定時間查詢

month	total
2012 08	108
2012 09	355
2012 10	110
2012 11	268
2012 12	103

OUTCOME

- This design allows librarians to find out the utilization rate of collection and each area without practical supervision and to control the learning commons remotely.
- We hope that it could be applied to every college learning commons in Taipei Medical University.

Q & A?

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