



# CONFRONTING THE SERVICE OVERLAP BETWEEN LIBRARIES AND COMPUTER CENTER

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**HOTEL PERDANA**  
**KOTA BHARU, KELANTAN**

Pertindihan pengurusan kemudahan/perkhidmatan ICT yang dilaksanakan dalam perpustakaan

1. Perolehan Perkakasan/Perisian Komputer
2. Perolehan & Pembangunan Sistem Aplikasi
3. Perolehan Server & Peralatan Rangkaian
4. Melaksanakan *Backup data - Storage Area Network (SAN) & Library Tape*

# Perolehan Perkakasan/Perisian Komputer

## Menguruskan Perolehan Perkakasan/Perisian Komputer

Perolehan perkakasan komputer oleh Pusat Tanggung Jawab (PTJ) sendiri mengikut nilai perolehan kerana pihak Centre For Information & Communication Technology (CICT) tidak dapat menguruskan perolehan keseluruhan PTJ

### Kategori Perolehan:

<RM 50,000 ke bawah

- ✓ pembelian terus menggunakan minimum 3 *quotation* dari pihak pembekal

## Menguruskan Perolehan Perkakasan/Perisian Komputer

### Kategori Perolehan:

- >RM 50,000 ke atas – perolehan secara sebutharga
  - ✓ PTJ perlu menyediakan spesifikasi teknikal bagi perolehan perkakasan/perisian komputer, sistem aplikasi, rangkaian dan lain-lain kepada JK Teknikal IT Universiti
  - ✓ Pembentangan spesifikasi teknikal kepada ahli JK Teknikal IT Universiti
  - ✓ Kelulusan spesifikasi teknikal oleh ahli JK Teknikal IT Universiti
  - ✓ Sebutharga dikeluarkan secara rasmi

<RM 50,000 – perolehan perkakasan ICT untuk kegunaan staf Perpustakaan melalui pembelian terus menggunakan minimum 3 *quotation* dari pihak pembekal. Contoh perkakasan ICT:

No.	Item	Catatan
1	Komputer	Staf
2	<i>Printer</i>	Staf
3	<i>Laptop</i>	Staf
4	<i>Scanner</i>	Staf
5	<i>Switches</i>	Perpustakaan
6	<i>Barcode</i>	Staf / Perkhidmatan Kaunter
7	<i>Thermal Printer</i>	Staf / Perkhidmatan Kaunter
8	<i>External HDD</i>	Staf
9	<i>LCD Monitor</i>	Staf
10	<i>UPS</i>	Staf

>RM 50,000 – perolehan melebihi RM 50,000 perlu menghantar spesifikasi teknikal kepada JK Teknikal IT Universiti untuk disemak, dibentang dan mendapatkan kelulusan sebelum perolehan dibuat. Contoh:

No.	Item	No. Sebutharga
1	Sebutharga Bagi Perolehan Patron Tracking System Di Perpustakaan UTM, Bangunan Raja Zarith Sofiah, UTM 2014	SHJ052014000258
2	Sebutharga Bagi Perolehan CCTV dan Dehumidifier di Perpustakaan Raja Zarith Sofiah UTM 2014	SHJ052014000259 <ul style="list-style-type: none"> <li>•CCTV - 43 unit ( 1 lot)</li> <li>•Dehumidifier - 8 unit</li> </ul>
3.1	Sebutharga Bagi Perolehan Digital Signage System dan Led TV Di Perpustakaan Raja Zarith Sofiah UTM 2014	SHJ052014000261 7 unit TV Panasonic (DS) <ul style="list-style-type: none"> <li>•Aras 1 - 4 unit</li> <li>•Aras 2 - 1 unit</li> <li>•Aras 3 - 1 unit</li> <li>•Aras 4 - 1 unit</li> </ul>
3.2	LED TV	3 unit TV Sharp Aquos <ul style="list-style-type: none"> <li>• Aras 1 - 1 unit</li> <li>•Aras 4 - 2 unit</li> </ul>

No.	Item	No. Sebutharga
4	Sebutharga Bagi Perolehan Kelengkapan Multimedia Di Perpustakaan Raja Zarith Sofiah UTM 2014	SHJ052014000238 •Audio Visual System •Multimedia Editing System
5	Sebutharga Bagi Perolehan Library RFID Management System Di Perpustakaan UTM, Bangunan Raja Zarith Sofiah, UTM 2014	SHJ052014000262 •Self check system (hybrid) : 2 unit •Hybrid EM detection system 2 lane & 3 panels - 2 unit 1 lane & 2 panels - 1 unit •Hybrid 5 bin auto-sorter : 1 unit - 5 bin •Hybrid staff workstation: 1 unit •Mobile Tagging station: 1 unit



No.	Item	No. Sebutharga
6	Perolehan peralatan rangkaian tanpa wayar (wireless networking)	SHJ082014000457 20 unit
7	Sebutharga Bagi Membekal, Menghantar, Memasang, Menguji, dan Melatih Komputer Peribadi, Komputer Riba, Pencetak, Pengimbas, Uninterruptible Power Supply, Thermal Printer, Barcode Scanner dan External Hard Disk Di Perpustakaan Raja Zarith Sofiah, 2014	SHJ082014000465 <ul style="list-style-type: none"> <li>•Komputer Peribadi - 31</li> <li>•Laptop - 7</li> <li>•Pengimbas (Flatbed) - 9</li> <li>•Pencetak B &amp; W - 24</li> <li>•Pencetak Warna - 9</li> <li>•Uninterruptible Power Supply - 7</li> <li>•Thermal Printer - 8</li> <li>•Barcode Scanner with Stand - 10</li> <li>•External Hard Disk - 8</li> </ul>

No.	Item	No. Sebutharga
8	Sebut Harga Bagi Supply, Delivery, Installation, Testing, Commissioning And Training Appliance-Based Integrated Security System For Perpustakaan Raja Zarith Sofiah (PRZS), UTM Johor Bahru	SHJ092014000477 1 unit Tambah keperluan alatan <ul style="list-style-type: none"> <li>•Switch CISCO - 2 unit</li> <li>•Fiber Cable Patch cord Multimode SC-LC - 1 unit (3 meter)</li> <li>•Fiber Cable Patch cord Multimode SC-LC - 1 unit (3 meter)</li> <li>•Multimode Fiber SFF (CISCO) - 1 unit</li> </ul>

No.	Item	No. Sebutharga
9	Sebutharga untuk Supply, Delivery, Design, Development, Upgrading, Testing, Training, Consultation, Implementation and Commissioning bagi Library Service System di Perpustakaan UTM, Tahun 2014	SHJ092014000478 Fasa 1 <ul style="list-style-type: none"> <li>•Management Module</li> <li>•Base Module</li> <li>•Workflow Engine</li> <li>•Library Classes Management System</li> <li>•Online Schedule : Library Counter Services</li> <li>•Library e-Form &amp; Feedback</li> <li>•ICT Problem Reporting System</li> </ul>
10	Pemasangan UPS dan Comando Plug Di Bilik Server PRZS oleh PHB -	Tanggungjawab PHB - perolehan telah diuruskan oleh PHB dan peruntukan dari Perpustakaan

# Pembangunan Sistem Aplikasi

## Pembangunan Sistem Aplikasi oleh PTJ



## Sistem yang dibangunkan oleh Perpustakaan UTM

### Library Management System (LMS)

- Acquisitions
- Cataloging
- Serials
- Circulation
- OPAC

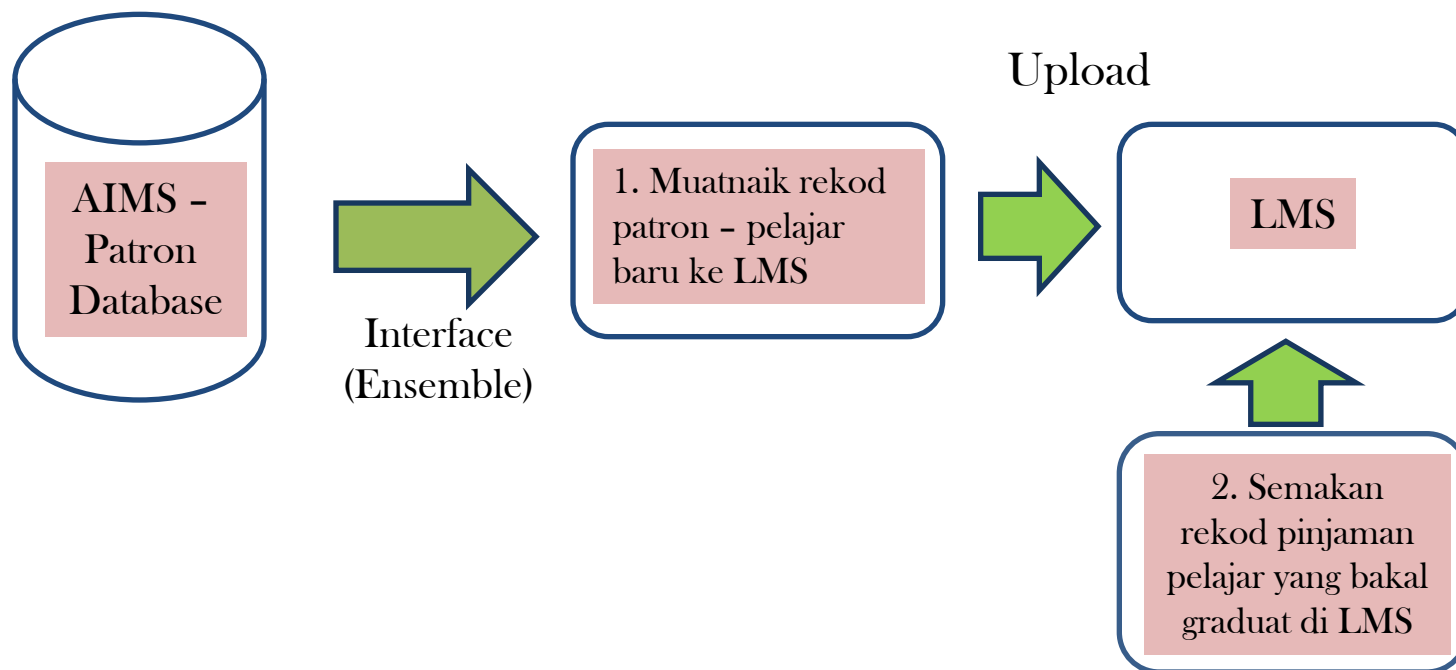
### Document Management System (DMS)

- Valet - Staff Module
- Vital - User access

### Library Service System

- Library Classes Management System
- Online Schedule : Library Counter Services
- Library e-Form & Feedback
- ICT Problem Reporting System

1. Muatnaik rekod patron - pelajar baru ke LMS
2. Semakan rekod pinjaman pelajar yang bakal graduat di LMS



# Server/Rangkaian



## Server

- Perolehan server, termasuk peralatan server yang lain  
- HDD, RAM, *Host Bus Adapter (HBA)* untuk connect host sistem ke storan lain

## Rangkaian

- Perolehan *switch, Appliance-Based Integrated Security System (IPS)*

*Backup data - Storage Area Network  
(SAN)/Library Tape*

## *Back-up data from Library Main System*

### *Main library System*



*Storage Area Network (SAN)  
Primary disk & secondary disk*



### ACM Server

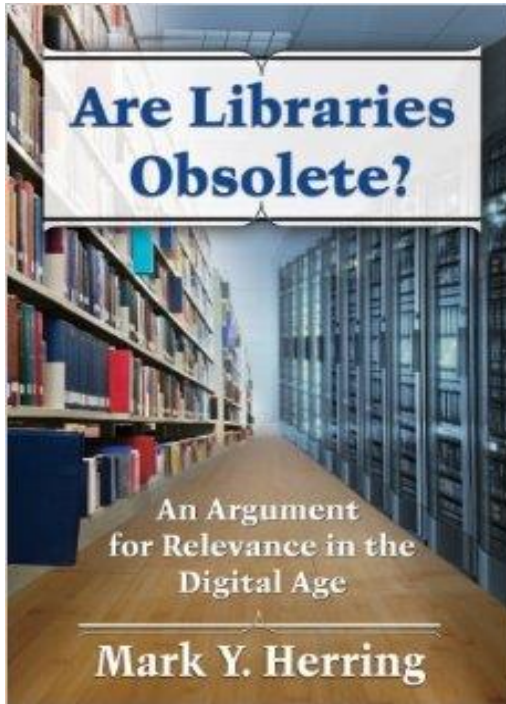


*Secondary back-up data -  
library tape*

## Senarai Server Utama Perpustakaan UTM

Server/ICT Komponen	Model	Kuantiti
<b>sylis</b>	FUJITSU SPARC Enterprise M3000 (rack mounted)	1
<b>library</b>	FUJITSU SPARC Enterprise M3000 (rack mounted)	1
<b>libra</b>	HP Proliant DL 380 G5 (rack mounted)	1
<b>report</b>	HP Proliant DL 380 G6 (rack mounted)	1
<b>ent</b>	HP PROLIANT DL 380 G7 (rack mounted)	1
<b>dms</b>	HP PROLIANT DL 380 G7 (rack mounted)	1
<b>lss</b>	HP PROLIANT DL 380p Gen8 (rack mounted)	1
<b>ezproxy</b>	HP PROLIANT DL320e Gen8 v2 (rack mounted)	1
<b>portal</b>	HP Proliant DL 380 G5 (rack mounted)	1
<b>dccs</b>	IBM System x 3250 M4 (rack mounted)	1
<b>cctv</b>	HP Proliant ML370 G3 (tower) – standby	1

# About the Book



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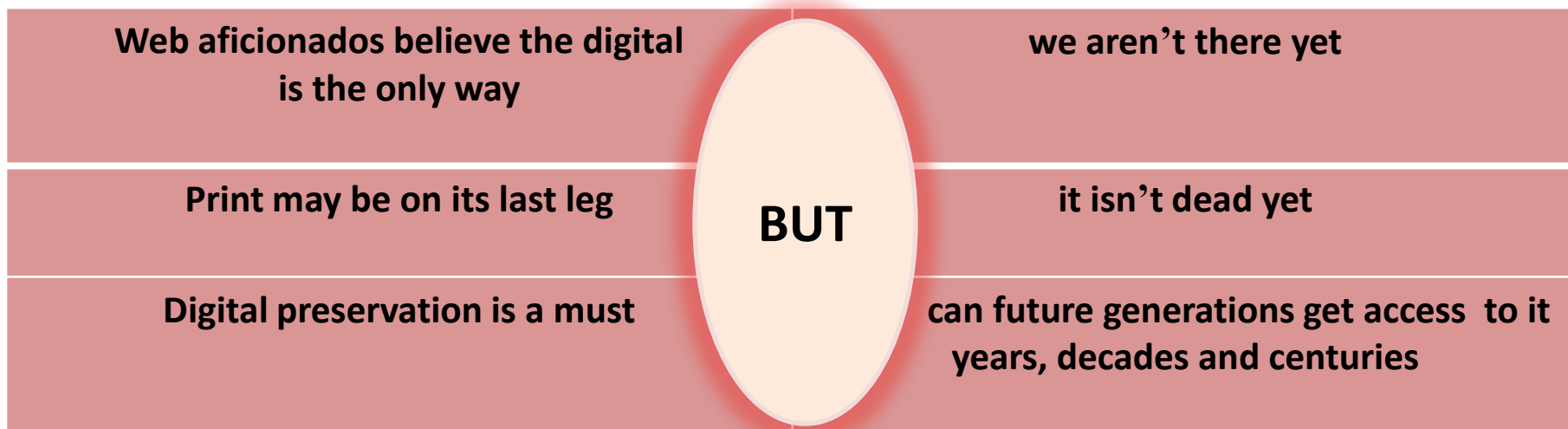
**Author : *Mark Y. Herring***

***The dean of library services at Winthrop University,  
Rock Hill,  
South Carolina.***

# An Overview

Biggest **ROADBLOCK** to the future of libraries is that the generation that built these **GRAND** things has bequeathed them to a generation that :-

- 1) Uses them less and less
- 2) Doesn't particularly like them
- 3) Despises the cost involved in keeping them up



Are we replacing libraries with future that is really better, or only with one that is the **EASIER** to **REACH** ?

# *Positioning Our Libraries to Survive*

## **1. The Entrepreneurial Libraries**

- ❖ Be a collaborative organizational structures.
- ❖ Building smart partnership and share our resources in more aggressive scale in order to increase services while holding down cost.

## **2. Strengthen Archives & Preservations**

- ❖ Libraries emphasize on preservation of the cultural heritage of the nation and its interpretation that cannot be replaced by mere machines no matter how smart they are or become.

### 3. Embrace your Profession

- ❖ Library education will have to change.
- ❖ Librarians need to :-
  - Do a better job telling the world what it is we do & why we do it.
  - Be more service minded, and to do a better job of controlling costs.
  - Be better risk-takers by changing our environment.
  - Adapt technologies to services, not services to technology.
  - Library leaders are needed who will treat technology as the library' s plaything instead of the other way around.



#### 4. Address our Patron Demand

- ❖ We need to help our patrons help us by demanding our services. If we fall into obsolescence, we' ll never come back.
- ❖ The combination of serving a traditional population and an unconventional one will help to solidify the primacy of libraries in the future.

#### 5. Reshaping our Collections

- ❖ The expansion of IR (Institutional Repositories) & Open access initiatives.
- ❖ Centralized Library - Creating one-large-like facility that would deploy librarian to various locations for on-site help would be more cost effective.

## 6. Spaces & Buildings

- ❖ The idea of Makerspaces - less about books and much more about social gathering places for creativity of all kinds. They aren't about knowledge consumption so much as they are about knowledge creation.

## 7. Full-service Libraries are :-

- ❖ Vital to our democracy
- ❖ Bridges between the haves and the have-nots
- ❖ Vital to our intellectual and cultural lives

## *Points to Ponder...*

*Stoll, Clifford. Silicon snake oil : second thoughts on the information highway.  
New York : Double day, 1995 :-*

***“I don ’t worry about the bookless library. A place without visitors, children ’s story hours, or librarians... Instead, I suspect computers will deviously chew away at libraries from the inside. They eat up book budgets and require librarians that are more comfortable with computers than with children and scholars. Libraries will become adept at supplying the public with fast, low-quality information. The result won ’t be a library without a books – it ’ll be a library without value ”***

## Penghargaan Kepada

- **Puan Nor Asikin Binti Mohamad  
Timbalan Ketua Pustakawan  
Perpustakaan Raja Zarith Sofiah**
- **Puan Haslina Binti Nasir  
Ketua Bahagian Automasi  
Perpustakaan Raja Zarith Sofiah**
- **Puan Khairulbahiyah Binti Yaakub  
Pustakawan Kanan**



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