THE FIRST STEP TOWARD
A REAL U-LIBRARY
STARTS AT YUL

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AGENDA

• Part I - New Library & IT Project by Yongmin Lee
  - Intro: Yonsei University Library
  - Yonsei New Library Project
  - IT Consolidation Project for Yonsei Samsung Library
  - U-Library: new IT service concept

• Part II – U-Library Services by Choemin Cho
  - About U-Library service details

• Q & A
YONSEI UNIVERSITY, SEOUL, KOREA

- Started in 1885 by Dr. Underwood, American Missionary

Enrolled students: More than 29,000
18 graduate schools and 19 colleges
131 subsidiary institutions
Library Facts

- Average gate check-in counts: 10,000
- Peak gate check-in counts: 30,000
- Average daily checkout books: 3,000 items
- Aggregate Number of gate check-in count last year was over 5 millions
Collections & Information services
- 1.8 million printed works
- 16,000 serials
- 200 academic databases
- 53,000 e-journals
- 42,000 e-books
THE LARGEST LIBRARY COMPLEX IN KOREA: 53,000 M² (570,300 FT²)
NEW LIBRARY PROJECT

- Started in 2001
- Requirement Description Draft for the New Library, 2001
- A working group for preparation of the Basic Construction Plan: 2001-2003
  - Benchmarking libraries: over 50 institutions (North America, Europe and Asia)
  - Decision the Concept & Layout
  - User surveys
- Submission of the Basic Construction Plan for the New Library, 2004
Stacks are in the Central Library building.

The new library has a repository room:
- a mobile shelving system
- Storing more than 500,000 items

The new library has more collaboration rooms and facilities based on IT infrastructure.
The two buildings -- both the old one and the new - should be interconnected

- We design a cutting-edge library building
- We design the cultural space in the library
- We provide aspects lacking from old library focusing on suggestions by students
CONSTRUCTION STARTED IN MAY 2005
IT CONSOLIDATION PROJECT

- New Library Taskforce team
- Requirement
  - Following the issues & Solving problems
  - Specialists & Consultants
- Compound Project
  - Design Project - Concept, Furniture, Sign System...
  - Consulting - Organization, Service, IT...
  - Ordering - furniture, facilities, equipment, manufacture...
  - System Integration - design & development system...
- IT Project Partner: SDS (Samsung Data Systems)
NEW LIBRARY IT PROJECT TASKS(1)

- To propose a service rebuilding plan – service desks, function arrangement, staff positioning and so forth
- To complete the layout plan to connect the two library operations
- To design tailored library furniture to fit every room and corner in the new library
- To create a sign system plan for both of the two library buildings.
- To review all equipment and items specification to be installed in the building
NEW LIBRARY IT PROJECT TASKS (2)

- To suggest ideas to the New Library Construction Committee for creating a pleasant library environment
- To check the library issues in the all process of building construction
- To make an action plan to implement IT infrastructure system to improve IT services in the library
- To design the systems to administrate IT resources, and to support user’s booking seat and room reservation
- To make a creative and outstanding service plan in IT area
U-LOUNGE

Yonsei Samsung Library

Central Library
YONSEI-SAMSUNG LIBRARY
VIDEO CLIP

YONSEI UNIVERSITY LIBRARY
연세대학교 학술정보원
IT SYSTEMS TO SUPPORT U-LIBRARY

- **User support system**
  - Seat Booking, Room Reservation, Gate check-in, User information Administration, Statistics

- **Contents broadcasting system**
  - To upload, register, update, schedule contents...

- **U-Lounge support system**
  - Displaying Contents, Recognition RFID, Real-time gathering data...

- **IT Technology**
  - RFID, touch LCD, computer graphics, media file conversion, integrated databases...
IT SYSTEMS TO SUPPORT U - LIBRARY
*U-Lounge/U-Library*

- ‘U’ stands for ‘Ubiquitous’ & ‘University Culture’
- ‘U-Lounge’ is the physical space at Yonsei Samsung Library
- ‘U-Library’ stands for a concept of ‘Ubiquitous computing’ as human-computer interaction service in the library.
UNIQUENESS IN U-LIBRARY SERVICE

- Convenient, Interesting & Fun
- Human interactive interface using digital contents
- Cultural space by users
ENJOY U-LOUNGE, THANK YOU!
U-LOUNGE IN YUL
Informative : Convenient : Fun

Cheolmin Cho, Media Librarian
Yonsei University Library, Seoul, Korea
Session 20c / 10 September 2008
U LOUNGE ...

- represents the high-tech image of the Yonsei university library

- is not a ubiquitous dream hall, but the first commercialized ubiquitous service

- sets Yonsei University Library apart from other libraries

- provides unique cultural environment
SERVICE CONCEPT

- Library
  - Information
  - Efficiency
  - Multimedia Contents
  - PR / Notice
- Ubiquitous Computing Tech.
  - Interaction
  - Distributed Computing
- Lounge
  - Comfort
  - Resting Area
- IT + Design
  - Diversity
  - Complex
  - Fun
  - Convenience

IT + Design

Ubiquitous Computing Tech.
DESIGN

- Creative / Functional
- Modern / Simple
- Usability
- Unity / Originality
DEVELOPMENT FOCUS

- User Interface: easy to use / aesthetic
- Contents Management: one source - multi use
- Automation: scheduling (power & contents)
- Attraction: comfort / fun & interesting contents
**COMPONENTS**

**Information Delivery**
- Libinfo Display
- PR sections
- Magic Mirror

**Interactive Contents**
- Memoboard *
- MOD

**Research & Books**
- Newspaper
- Digital Book
- Finding Shelves
- My Book *

* Personalization Service using RFID
Components

- Resting & Playing
  - Table
  - Pond

Integrated Management System

- Equipments & Applications Management
- Scheduling Power Supply
- Contents Management
- Monitoring & Statistics
A conspicuous information display system

Hardware:
- 5 52-inch LCD Monitors (2 touch LCDs)
- 2 Agent PCs
- Hi-Fi Stereo Speakers / Monitor Distributor
LIBINFO DISPLAY

- Submenus:
  - Promotional Films
  - Library Floor Guide / Campus Map
  - UCC Video Clips
  - Intelliboard

- Features:
  - Interactive touch screen
  - Flash movies streamed as a panoramic view
  - Real time notices & news from library & university homepage
  - Scheduled contents broadcasted during idle time
PR SECTIONS

- A distributed broadcasting system throughout the library

- Hardware:
  1. 46-inch LCD Monitor (Library Gallery)
  2. 42-inch LCD Monitors (IC Helpdesk, MMC)
  4. 15-inch LCD Monitors (Elevators)
  14. 20-inch LCD Monitors (Each Floor)
  9. Agent PCs
PR SECTIONS

- Submenus:
  - all the contents are automatically broadcasted (no menus)

- Features:
  - distributed display throughout the library
  - scheduled contents broadcasting
  - streaming flash movies
  - slide shows of digital images
  - text information
  - tag line flow
  - background image exchange available
좌석/시설 이용정책이 이렇게 바뀌었어요!

- 학술정보관에서는 학생 여러분들의 의견을 충분히 들고 최대공약수를 찾아 예산 및 배정 정책을 다음과 같이 변경하였습니다.

1. 체크아웃 130분 후 좌석이 자동 휴소되는 정책은 정상시에는 시행하지 않습니다.
   다만, 매 시험기간 2주 동안은 필요하다는 공감대가 있으므로 '설문'을 통하여 휴소되는 시간을 정하도록 하겠습니다.

2. 연장 횟수에는 제한을 두지 않고, 연장 가능시간도 종료 2시간 전부터 가능합니다.
   중앙도서관/학술정보관에서 열공하시는, 멋진 생활 누리시길 바랍니다!
MEMOBOARD

- An interactive digital memo board

- Hardware (2 sets):
  1 60-inch Touch PDP Monitors
  1 Agent PC
  RFID Sensor
MEMOBOARD

Submenus:
- Lost & Found
- Flea Market
- News & Event
- Part Time Job

Features:
- Sending memos to public or specific person using web interface
- RFID identification to check personal memo (user’s own memos are popped up)
- Various communicative categories provided
- Fun & cute design
Welcome to U-Lounge!

Welcome to U-Lounge of Yonsei Samsung Library!

Feel the real ubiquitous library around you~
A multimedia on demand system including IPTV channels

Hardware (6 sets):
1 32-inch & 1 8-inch LCD Monitors
1 Agent PC
1 Mouse
4 Earphone Jacks
Submenus:
- Movie Clips
- Information
- Images
- IPTV

Features:
- separate menu LCD (8”) and main LCD (32”)
- various multimedia contents provided by library
- IPTV channels like Joost, Babelgum, GomTV
- scheduled contents are broadcasted during idle time
A true-to-life digital newspaper system (automatically daily updated)

Hardware (6 sets):
1. 42-inch Touch LCD Monitors
2. 1 Agent PC
Features:
- appearance of real newspaper
- touch interface simulating actual newspaper
- automatically daily update
- providing 10 newspapers for 1 month
- user can magnify and read each article by touching
- commercials can be displayed and managed by agency
FREE BATTERY-CHARGING SERVICE — People visit Samsung Electronics Co.’s battery-charging station at the Newark Liberty International Airport in New Jersey, yesterday. The Korean electronics maker installed 50 free battery-charging machines for laptops, cell phones and other electronics devices.

Samsung Electronics Co.
A true-to-life digital book system

Hardware (4 sets):
1 42-inch Touch LCD Monitors
1 Agent PC
DIgitAL BOOK

Submenus:
- Incoming Books
- Librarians’ Choice
- Bestsellers
- Yonsei’s Must-read’s

Features:
- touch interface simulating actual book
- provides the first part of books
  (following copyright law)
- users can browse books for actual reading
- can add contents within server-side storage capacity
An enjoyable multi-useful table that allows up to 4 users simultaneously

Hardware (4 sets):
1 42-inch Touch LCD Monitors
1 Agent PC
1 Stereo Speakers
1 Memory Card Readers
1 Cellphone Recharger
4 Headphone Jacks
Submenus:
- Movie
- Games
- Images
- Electronic Board

Features:
- Multi touch screen
- 4 users around can enjoy group meeting and play
- Multimedia contents can be shared by plugging user’s own memory card
- Simple but funny board games
- Group study with electronic board
Integrated Management System

A server application which controls all the equipments and contents of U-Lounge

Hardware
DB & App server : HP Bladeserver BL460c
Storage : 146GB * 8

Software
OS : Microsoft Windows 2003 Server
DBMS : MSSQL Server 2005
App : Java SDK1.6.0 + Tomcat 5.5 (Spring)
Integrated Management System

- It has 3 layers of contents management
  - uploading flash movies, images, text
    (includes making meta-data, categorizing contents)

  - registration contents to necessary components’ submenu
    (enables one source-multi use)

  - making broadcasting schedule set of contents to necessary components
Integrated Management System

- It can schedule power supply on-off of all the agents’ PCs and monitors using wake-on lan and IR control technology

- Agent application can be switched if necessary - this function enables location and number of components to be redesigned

- Agent application is automatic upgraded if newer version is available on the server
Short Movie Clip

- A movie clip excerpted from 'Arirang Special: Korea Connected' (broadcasted on 15 July 2008 by Arirang TV) which introduces U-Campus of Yonsei University
Questions & Answers

If you have any questions, please contact us

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