Research Paper

Reprographic System In Libraries Using ICT

Library Science

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ABSTRACT
Our libraries in the past have been world famous. The library of Nalanda played a major role in the development of education in India before it was destroyed. If a country is not working hard for educational development it is losing every thing. The Library plays a major role in the development of any society.

We are now developing in all fields with the help of Information Communication and Technology. We have the best brains and laborious students. It is necessary to make our libraries well-equipped and self dependent.

Life is very fast today and few have time to visit the libraries. Hence E_ libraries have come into existence. E _ Library has changed the concept of Libraries but they are still not very popular.

This paper describes how a reader can make use of conventional book reading system in a digital era.

Introduction

We all know that we have entered the digital era. We are experiencing a technology-enabling transformation often involving radical redesigning of basic library processes, organizational structure, information technology and flow leading to quantum improvement in customer-valued productivity. Library re-engineering includes three distinct phases viz: 1. developing a strategic vision, 2.analysing and designing the process, and 3. implementing a re-engineering process.

We, as Library personnel, are going to have to live both in print and digital worlds at least for some time more. Most of our readers even now prefer print versions. Besides resource management there are many other things which should be kept in mind e.g. Revenue of the library.

This work is a pilot project in which a library would use the principle of Virtual Library and Real Time Reference Service .

Definitions:-
Resource Management :-
We have to plan for using the resources of a libraries in the most efficient way possible. We have to focus on recruitment of, management of, and providing direction to the people who work in the libraries.

Virtual Library :-
A Virtual Library, also known as a Digital Library or an Electronic Library, may be defined as the online facility provided by a conventional library. It allows the user to read books and access other facilities often through a website which in turn offers links to various sites with a large store of information in a catalogued or archived form. The term is more often used to refer in a collective manner to the entire number of online books and other literary material related to any subject available on the Internet. It can also be a part of a network with linkages to other libraries. Universities offering distance education facility often have a virtual libraries for their students A virtual library has its holdings in the form of electronic stacks, without any regard to physical space or location. It is only a technological way to bring together the resources of various libraries and information services, both internal and external, all in one place.

Advantages:-
There are many advantages in going for a virtual library. Some of them are

listed below:

- It saves and/or reduces the physical space taken up by library materials.
- It often adds enhanced searching capabilities in a digital format.
- The library materials are available at the user's desktop, with even multiple and concurrent users.

Disadvantages
It is not advantages all the way - there are serious disadvantages too:

- Every product has its own distinct user interface.
- Users need to remember different passwords for different products.
- There are often difficulties with downloading or printing.

But with advances in technology this list would only shrink. Real Time Service :-

For providing Real-time service the Computer system is required to perform its tasks within the time restraints of some processes or even faster than the system assisted. Real-time computer systems and applications span a number of different types. "In real-time control and real-time process control the computer is required to process systems data (inputs) from sensors for the purpose of monitoring and computing system control parameters (outputs) required for the correct operation of a system or process. The type of monitoring and control functions provided by the computer for subsystem units ranges over a wide variety of tasks, such as turn-on and turn-off signals to switches; feedback signals to controllers (such as motors, servos, and potentiometers) to provide adjustments or corrections; steering signals; alarms; monitoring, evaluation, supervision, and management calculations; error detection, and out-of-tolerance and critical parameter detection operations; and processing of displays and outputs."

Advantages :-
Some of the advantages are as follows :-

- Any book in the library can be procured within a stipulated period of time .
- The reader can get the book at their desktop .
- Searching of books can be done with the help of PC, Hence physical effort can be made easy .
- There is no need to store the book, since it is available on the Net

- There is no time limit, a person can read the book of his interest as and when he desires.

Disadvantages :-
There are following disadvantages :-
- Dependence on the Net.
- A reader has to pay for each book, hence it may be expensive .
- If a reader wants to take its print out it would be a tedious process .

Real-Time Image Library
The library provides a simple to use common API for reading from, processing and displaying image sources including:

Movie Files
Quicktime Movies
MPEG
AVI

Live Video Input
Video Camera
Web camera

Image Files
Microsoft 24 bit bitmaps
JPEG images

Application programming interface (API) / Documentation

The API is designed to be very simple to be freely available to various   libraries.

Method:-
We have worked on some books. We used flat bed scanner (A4 Size). A digital camera can also be used; an overhead book scanner would be better still.

We can get the list of books after we enter the data on Soul or any other software . This is the best way of Virtual Library Management System. A few examples are provided at the end of the paper.

Equipment required for Scanning :-
Equipment rquired for University Digitization Center:-
- For Document Scanning
- Operating System: Win2k / WinXP
- Scanner :- A4 size flat bed Scanner / Flat Bed Slide and Transparency Scanner / Book scanner
- Hardware: P-IV , 2.8 Ghz , 1 gb ram, 80Gig disks, CD-RW, 17 in LCD display
- Software: Omnipage Pro 12 for Optical Character Recognition (OCR), Photoshop Elements, Adobe Acrobat, MS Office, Easy CD creator
- HP Laserjet 1012 B/W for local printing /

Steps Required to do this work:-
It is a very easy process. The Library has to select a few or as many books as desired. . After selection, cleaning, dusting and making it ready, scanning is to do done before the actual work.. Scanning should be done page by page. All the pages are to saved in an *.jpeg format in a specific folder . Later on all these pages are to be converted into *.pdf or *.doc format in an book form.

After completing this process the data is ready to be posted . The posting is again very easy .Just a few steps are to be taken . We have tried to give one of the easiest processes which any body can carry out : it can be a library staff with some basic knowledge of computers.

Open Front page on your PC if you don't have knowledge of HTML.

Hyperlink the book from the folder. Replace the Sample1.doc and

sample2.doc with the book name (File Name) required to be linked.

Follow the steps as stated below .
```
<html>
<head>
<script language=»JavaScript» fptype=»dynamicanimation»>
<!--
function dynAnimation() {}
function clickSwapImg() {} //-->
</script>

<script  language=»JavaScript1.2»  fptype=»dynamicanimation»
src=»file:///C:/Program%20Files/Microsoft%20Office/OFFICE11/
fpclass/animate.js»>

</script>
<center>
<div style=»background-color: #C0C0C0»>
<p             dynamicanimation=»fpAnimhopWordsFP1»
id=»fpAnimhopWordsFP1»    style=»position:   relative   !im-
portant;   visibility:   hidden»   language=»Javascript1.2»
fprolloverstyle=»border-style:   double;   border-width:   3px»
onmouseover=»rollIn(this)»  onmouseout=»rollOut(this)»><font
size=»7» color=»#0000FF»>K S D S University  </font>

</p>
</div>
<p><font size=»6»>Central Library</font></p>
<p><font size=»5»>Darbhanga , Bihar</font></p>
</center>
<p align=»left»><font color=»#00FF00»>To download kindly fol-
low the link below:-</font></p>

</head>

<title>Narottam Mishra , Information Scientist , K S D S Univer-
sity , Darbhanga</title>

<body        bgcolor=»#FFFFFF»        onload=»dynAnimation()»
language=»Javascript1.2»    link=»#0000FF»    vlink=»#800080»
alink=»#0000FF»>

<ul type=»circle»>
<LI>
<a href=»Sample%201.doc»>Download  <span style=»text-deco-
ration: none»>Sample1</span></a> ( This book was published

in 1900 and is one of the rare book of Raj Darbhanga )</li>

<LI>
<a href=»sample2.doc»>Download Sample2</a> </li>
</ul>
</body>
</html>
```

Go to the domain of website with the help of User ID and Password .
Paste the steps after checking the links.
And the work is done !

Conclusion
In this principle we have to convert the material into an image form and post it on an Secure Area. The INFLIBNET can do this work better. We have to select the list of books with the help of

SOUL, a software provided by the INFLIBNET. At the same time we have to capture the data with the help of an Overhead Book Scanner and save the image into an *.jpeg format in a systematic way. These images can easily be converted into *.pdf or *.doc format . These books can then be easily made available to users and scholars perhaps on a pay basis. After keeping the rent and percentage the rest amount could be sent back to the Libraries which actually own the book . This principle would not only make our libraries richer but would also help the user to get it by using less effort . This Real Time Recourse Sharing princi-ple would be applicable to the book whose royalty period has expired . It can be said that this is not the real example of Real Time Recourse Sharing because a user cannot search a word unless it is in English. Our scanners do not support to convert Devnagari script by using the technology of OCR. Hence for the time being this can be considered for only English.

REFERENCE

• http://www.comp.leeds.ac.uk/vision/software/libRTImage/ | • http://www.keil.com | • http://lawlibrary.ucdavis.edu | • PIGGOT, Sylvia, 1992, Reengineering the Library for 2nd era of the information age, Bank of Montreal , Research and Information Services, Quebec . | • Wikipedia , the free encyclopaedia . |