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Paper: CG

DESIGN AND DEVELOPMENT OF WEB-BASED DATABASES OF CURRENT PERIODICALS AT INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR

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The library of the Indian Institute of Technology, Kharagpur (IITKGP) was the first library in India which attempted to set up an electronic library for its clientele under the auspices of AICTE. While placing the library of IITKGP on Internet, the facilities offered by the WWW are exploited to provide information services of more than 1000 current periodical titles (with hard copy to on-line). This paper begins with a brief description of the electronic resources available in the Central Library, IITKGP. As the web sites are being set up by the libraries of all IITs, it is emphasized that the use of Internet will enable to share their resources in general and periodical publications in particular. Highlights the various types of web-based information services on scholarly journals including electronic journals (full text) which are linked to publishers' addresses. Discusses the methods, with illustrative examples, associated with the creation of several web-based tools like alphabetical list of periodicals including availability of CD-ROM databases, both in full text as well as abstracting and indexing journals, on-line journals (full text), departmentwise list of periodicals, current arrival list of periodicals, union list of periodicals (3500) subscribed by all IITs for resource sharing purpose and other free on-line services provided by the various publishers. Key word search program, hardware and software requirements, HTML tags to create several hyper linked files, editors and Internet solution for automatic web-page designing are also presented.

1. INTRODUCTION

The Central Library, Indian Institute of Technology, Kharagpur (IITKGP) is one of the largest, fully automated with most of the resources available online, technical library in the country with modern electronic library having a number of books, periodicals and electronic databases, etc. The IITKGP library caters to the need of its 5000 UG/PG students and research scholars, nearly 550 faculty members and about 1500 technical and administrative staff. The on-line public access catalogue(OPAC) is available on a campus local area network (LAN), and ERNET(Education and Research NETwork). The computer population in the Central Library IITKGP comprises of around 35 high end PGs besides the three sophisticated servers. The 24 hours Internet service facilities are provided through several leased and VSAT connections,

ranging from 19.6Kbps to 400Kbps. All departments including the library are connected to a powerful ATM backbone of 155Mbps. The changing trend in information storage technology as well as information services from printed to electronic form like CD-ROMs, video cassettes and on-line databases, and manual services to electronic services like Internet services, OPAC services, E-SDI services and E-CAS etc. In addition to the above services, the central library, current periodical section has created web based databases of current periodicals of IITKGP and also for all 6 IITs to provide various types of web based information services through Internet. Electronic Information services of current periodicals is essential for a large library like IITs where faculties are always busy for their teaching, research projects and allied works. It is a duty of the serials librarian to provide desktop electronic information services of current periodicals to the faculty members and other users of the institute. If it is available on Internet, then the services will definitely help them to identify the availability of particular periodicals both on electronic and print versions and their volume no. issue no. etc. This service will facilitate to achieve the purpose of Interlibrary loan among IIT libraries in India. The Central Library, Current Periodical Section (CLCPS) has been subscribing more than 1000 individual titles and some CD-ROM databases, electronic journals etc for one year subscription period, for which the IITKGP is spending Rs. 3.2 crores, the total issues of which are more than 19,000. The CLCPS is maintaining these issues properly and provide up to date information services to the users within shortest possible time with the help of Internet as well as Intranet services. The following web-based information services are provided by the IITKGP-CLCPS:

- List of Periodicals for the Subscription Year 2000 (Alphabetically/ Search)
- Union List of Periodicals Subs. by the IITs Under Resource Sharing Program(RSP)
- Department-wise List of Periodicals (26 Departments)
- Current Arrival List of Periodicals for the year 2000 (Alphabetically/ Search)
- List of Electronic Databases for the Year 2000
- Electronic Journals(full text) and Linked to Publishers' Addresses
- Union Current Arrival List of Periodicals Subscribed by the IITs (6IITs) Under RSP

The methods associated with the creation of different web-based databases for rendering the above mentioned services are furnished in the following section.

2. ELECTRONIC RESOURCES AVAILABLE AT CENTRAL LIBRARY, IITKGP

2.1 Hardware

a) METEOR III (EISA BASED SYSTEM)

- * Intel 80486 DX 50 Mhz
- * RAM : 16MB
- * Hard Disk : 1.05GB
- * Cache : 256KB
- * Floppy Drive
- * CR-ROM Drive
- * SAGA color Monitor

- * 2 serial port & 1 parallel port
- * Network Card

b) PCS

- * Two Intel 80886 640KB RAM, 20MB Hard Disk, 1 serial port & 1 parallel port, 5.25"FDD,
- * Two Intel 80286 512 KB RAM, 20MB Hard Disk, 1 serial port & 1 parallel port,
- * Ten PentiumII 266 Mhz
- * Two Pentium II 166 mhz Multimedia Machines
- * One Pentium 100 Mhz
- * Two Pentium Pro 166 mhz
- * Two DX 33 Mhz
- * One 486DX 50 mhz
- * One Library Web Server : 486DX2 Based
- * Fourty (40 nos) VT Terminals
- * Four Terminal Server
- * One HP 5si MX Laser Printer
- * One HP DeskJet Printer(colour)
- * Six HP DeskJet 200Cci Printer
- * Ten Dot Matrix Printers
- * Seven Barcode Scanner
- * Four UPS Power system
- * CD-ROM Tower and juck box for CD-ROM Networking
- * Colour Tvs (4 nos) with VCP(3 nos)/VCR(1 no.)

c) LINE DRIVER

(To connect the Terminal in different location of the library each terminal requires 1 pair of line Driver)

d) NETWORK ACCESSORIES

MAU (Media Access Unit) Interface to connect computer to the Campus Network

2.2 Software

a) For Meteor III system

- * SCO Unix System V. 3.2 + TCP/IP+ NFS (Runtime Development System)
- * Application package LYBSYS
- * Utilities Record Management

b) PCS

- * MS-DOS Operating system

- * Application Package : DBaseIII & IV, Wordstar, MS- Office(MS-Word, excel, power point, etc)

c) Workstation PCS

- * Window 95, several HTML Editors, Netscape, Internet explorer
- * CD-ROM Retrieval Packages like IEL (IEEE Electronic Library) , Winspirls for Silverplatter, etc.

Most of the computing facility developed using Rs.50 Lakhs of Project money and limited annual operating grants from the Institute

2.3 OPAC database

3,00,000 library documents are available on campus LAN, ERNET and INTERNET/WWW telnet 144.16.192.19 Webserver <http://144.16.192.18> or <http://www.iitkgp.ernet.in>, CD-ROM Networking through campus ATM LAN

2.4 Electronic Databases

CCOD with Abstracts	CD-ROM Databases	Free Online Journals along with Print subscription
i) Physical Chemical and Earth Science ii) Social and behavioral Sc. iii) Agricultural Biology and Envir. Sc. iv) Engineering, Computing and Tech.	i) IEEE Electronic Library (IEL) on CD-ROM (Full Text, Coverage from 1988-1999) ii) Chemical Abstract iii) Physics Abstracts (INSPEC) iv) E.I. Compendex Plus v) Biotechnology and Bioengineering Abstract vi) Video cassette of Centre for education technology, IIT-KGP (15 courses -540 Video cassettes of 1 hr. each)	i) Mcb Publication ii) Institute of Physics iii) John Wiley Publication (Interscience) iv) American Physical Society v) Elsevier Science vi) American Institute of Physics vii) American Computing Mechanary(ACM) viii) Nature ix) Ceramic Abstracts x) Astrophysical Journal xi) Astrophysical Journal Letters

3. STEPS INVOLVED IN THE CREATION OF WEB-BASED DATABASES

3.1 System requirements (General)

3.1.1 Hardware: Pentium Pro,166 Mhz, 128 MB RAM, 12 CB HDD, 256 KB Cache, 5.25” & 3.25” FDD, DAT 2 GB, 32 bit pci ethernet card, 2 serial port & 1 parallel port

3.1.2 Software: The linux 1.5.13 operating system is used along with *http server software* : http-1.5a tar from the Internet and the configuration files access.conf, httpd.conf, localhost_srm.conf, and srm.conf. are adapted to suit the local operation.

3.1.3 Authoring tools: any one of the following HTML editors:

(HotMetal Pro, HTMLed, HTML Assistant, HotDog 2.5, HotDog 32 Bit or Webber)

3.1.4 Client software: Either Netscape navigator or Internet explorer

3.1.5 Communication: Indian Institute of technology, Kharagpur has a leased line connection to the Kanpur Hub and a satellite link to Bangalore hub of ERNET. the central library *Web Server* is connected to a powerful ATM backbone(155Mbps) network and provides services to national and International networks through the ERNET WAN facility. Other than ERNET, one could access to the facility through Indian network service provider such as NICNET and VSNLnet.

3.2 System Requirement For Free Electronic Journals (Full Text) Along With Print Subscription

3.2.1 Acrobat software

Acrobat 4.0 software is the most reliable, efficient, and effective way to share information electronically. Acrobat lets you convert any document - including entire Web sites - into an Adobe Portable Document Format (PDF) file, with its original appearance preserved, and then distribute it for viewing and printing on any system.

3.2.3 System requirements for acrobat 4.0 windows

- 486 or Pentium processor-based personal computer
- Microsoft Windows 95, Windows 98, or Windows NT
- 16 MB of RAM for Acrobat on Window 95 and Windows 98
- 24 MB of RAM for Acrobat on Windows NT
- A CD-ROM drive

3.2.4 IP address and range

An IP address is a four part numeric address(in the form nnn.nnn.nnn.nnn) assigned to all devices using the TCP/IP protocol, which include all devices on the Internet. Because all devices have a unique number or IP address, it is used to locate. For IIT-Kharagpur, the IP addresses are **203.197.98.2 and 203.197.98.3**

3.2.5 Domain name

A name associated with an organization, or part of an organization to help identify it uniquely. Domain names are assigned hierarchically; For IIT-Kharagpur, the Domain name is **iitkgp.ernet.in**

3.2.6 Registration forms

Registration forms along with site license are required to on-line access for each publisher who is providing free on-line service along with print subscription. After downloading the registration form from the publisher web sites, the same forms are to be signed by the library authority with following information in details and send them to the publisher through Fax/Post.

a) **Name of the journals covered by this registration:** Astrophysical Journal

b) **LIBRARY INFORMATION.** Name and address of the library or other organization that has paid for this electronic access.

Library Name : Indian Institute of Technology
Library Mailing Address : Central Library, IIT-Kharagpur
City/State : Kharagpur, West Bengal
Zip/Postal Code/Country : 721302, INDIA
Subscription Agency if any) : Globe Publication Pvt. Ltd, New Delhi

c) **LIBRARY CONTRACT INFORMATION.**

Name : R.V. RajaKumar
Title : Chairman, Central Library
E-mail : Chairman@library.itkgp.ernet.in
Telephone : 91-3222-8-2448
Fax : 91-3222-55523

4) **SITE INFORMATION:** this license is granted for an institution at one geographical location:

Institution : Indian Institute of Technology
Street address : Kharagpur
City/State : Kharagpur, West Bengal
Zip/Postal Code/Country : 721 302, INDIA

5) **NETWORK INFORMATION.** Network address may be provided as a list or as a range of address ; e.g., 203.197.98.2 or 203.197.98.3

Domain Name : itkgp.ernet.in
IP Address : 203.197.98.2
 : 203.197.98.3

3.3 Basic Tags And Their Meaning Of Html Codes To Create Several Hyperlinked Files For This Services

Every document must begin and end with the <HTML> tag, declaring document as on HTML document. There are eight basic structure tags:<HTML>,<TITLE>, <HEAD>,<BODY>, </TITLE>,</HEAD>,</BODY>,</HTML>Basic structure of tags are the building blocks every where. It is very important to understand these tags when creating an HTML document. The illustrative examples of various HTML tags used in creating the databases are appended below :

<HTML>
<HEAD>
<TITLE> Title of the document </TITLE>
</HEAD>
<BODY> Body of the title</BODY>
</HTML>

ESSENTIAL ELEMENT TAGS

<HTML></HTML>	Declares document is HTML
<HEAD></HEAD>	Declares document is HEAD
<HTML></HTML>	Declares document is TITLE
<BODY></BODY>	Declares document is BODY

TAGS FOR HEADLINE, STYLE, TYPEFACE AND PARAGRAPH TAGS

<H1-H6></H1-H6>	Six levels of Header tags
<H1>.....</H1>	Largest Font
<H6>.....</H6>	Smallest Font
	BOLD
	Italic / Emphasis
<CODE></CODE>	Fixed Typeface
<P></P>	Begin Paragraph
 </BR>	Line Break
	Order (Number) List
	Unordered (Bulleter list)
<DIR></DIR>	Directory List
<MENU></MENU>	Menu List
	Individual List
<DL></DL>	Dictionary List
<DD></DD>	Dictionary List Definition

TAGS FOR PREFORMATED TEXT AND TABLES

<PRE></PRE>	Preformatted Text
<TABLE></TABLE>	Declares Table
<TD></TD>	Table Data Cell
<TH></TH>	Table (Column or Row)
<TR></TR>	Table Row End

TAGS FOR FILL - IN FORMS

<ISINDEX>	FORM CREATED AUTOMATICALLY
<FORM></FORM>	Declares Form
<INPUT NAME="LABEL">	Name Input Data Item
<SELECT NAME="ITEM"></SELECT>	Choose one or More

TAGS FOR IMAGE INCLUSION

	Include Image File Name
	Alignment of Image
<IMG...> 	Image is Hyperlink

TAGS FOR ANCHORS AND LINKS

TEXT	Hyperlink Anchor
	Market Tag
....	Hyperlink to stop in docu.
TEXT	Hyperlink to URL

UNIFORM RESOURCE LOCATION

http	Hyper Text Transfer Protocol
ftp	File Transfer Protocol
gopher	Gopher Protocol
telnet	Telnet Protocol

3.4 Creation of Databases of Current Periodicals

The CLCPS-IITKGP is using d'Base package where the following fields are being used for entering bibliographical information of current periodicals:

Field Name	Type	Width	Dec
TITLE	CHARACTER	40	
PUBLISHER	- DO -	30	
ISSN	- DO -	9	
CURRENCY	- DO -	3	
DEPARTMENT	- DO -	3	
VENDOR	- DO -	3	
SERIAL NO.	- DO -	12	
VOLUME	- DO -	12	
PRICE	NUMERIC	12	2
INDIANRS	- DO -	12	2
AMOUNT DUE	- DO -	12	2
TI	- DO -	4	(TOTAL ISSUES)
IR	- DO -	4	(ISSUE RECEIVED)
IRN	- DO -	4	(ISSUE NOT RECEIVED)
DATE OF RECEIVE	- DO -	10	

After creating the above fields, the detail information of each periodical is to be entered in the relevant field. Once all the data of periodicals are entered into the computer, the several report files of lists are to be generated like list of periodicals for the subscription year 2000, Department-wise lists, Current arrival list, list for CD-ROM databases and list for electronic journals, etc.

3.4.1 Techniques for report generation from the database files

The records from a database file can be taken as output in better formatted way. Reports are to be generated with the selected required fields for creating web based databases.

3.4.2 Techniques for file transferring

Open database files (use command), say jnl.dbf (file name), in which the database of current periodicals are available. A report file, namely jnl.frm, is to be created consisting of the fields as per requirements for the services and that jnl.frm file is to be converted again into the jnl.txt file. After creating the jnl.txt file, the next step is to open HTML editor on which the jnl.txt file will be called and the HTML tags will be used, and subsequently it is to be saved as jnl.html. In brief, the following are the steps to transfer the files from database file to html file.

jnl.dbf-----jnl.frm.-----jnl.txt-----jnl.htm

In order to create the different HTML files, the same file is to copied in to the http web server and then the page will be accessible by all users through Internet.

3.5 Techniques To Create Web Database For Subscription List Of Periodicals For The Year 2000

The web based subscription list of periodicals for the year 2000 which covered the detail information like name of the journals, name of the publisher and department codes will be arranged alphabetically along with the key word search facility. For this, the program is written on HTML editors and the displays on Internet explorer of Netscape will be as follows:

Program written on HTML editor (webber)

```
<HTML>
<HEAD>
<TITLE>2000 SUBSCRIPTION LIST</TITLE>
</HEAD>
<BODY><H1><CENTER><B>LIST OF PERIODICALS SUBSCRIBED FOR THE YEAR 2000</H1></CENTER></B>
<H2><CENTER><I> CENTRAL LIBRARY ,PERIODICAL
SECTION, IIT-KHARAGPUR</H2></CENTER></I>
<PRE>
NAME OF THE TITLE   NAME OF THE PUBLISHER   DEPTT.
    ACM GUIDE TO COMPUTING LITERATURE ACM SET           CSE
    ACTA METALLURGICA ET MATERIALIA  PERGAMON, UK       MET
    ADVANCES IN PHYSICS  TAYLOR & FRANCIS    PHY
    JL OF DOCUMENTATION  ASLIB, UK           LIB
</PRE>
<H1><CENTER><A HREF='jnl.htm'> BACK TO TOP </A></H1></CENTER>
</BODY>
</HTML>
```

LIST OF PERIODICALS SUBSCRIBED FOR THE YEAR 2000		
<i>CENTRAL LIBRARY ,PERIODICAL SECTION,IIT-KHARAGPUR</i>		
NAME OF THE JOURNAL	PUBLISHER	DEPTT.
ACM GUIDE TO COMPUTING LITERATURE	ACM SET	CSE
ACTA METALLURGICA ET MATERIALIA	PERGAMON, UK	MET
ADVANCES IN PHYSICS	TAYLOR & FRANCIS	PHY
JL OF DOCUMENTATION	ASLIB, UK	LIB
<i>all other documents will display like this</i>		
BACK TO TOP		

In order to prepare union list of periodicals subscribed by the IITs (6 IITS) under RSP, the same procedure is to be followed.

3.6 Department-wise list of periodicals (26 departments)

The IITKGP has 26 departments and 550 faculty members. The department-wise list of

periodicals will contain information like name of the journals, name of the publishers, price of the periodicals and total expenditures of each departments. This service will be of help for the preparation of budget for next subscription year by the individual department. For this services 26 individual departments files are to be prepared and all the files are to be linked to the main page of department-wise list of periodicals, file name being jldept.html, and the same file is to be linked with the main web page.

3.7 List of Electronic Databases for Subscription Year 2000

The CLCPS-IITKGP is procuring the following CD-ROM Databases of Indexing, abstracting and full text journals which are also available on web, the file name being jldeid.html. A sample list of electronic databases created by adopting the above mentioned procedures is demonstrated below:

<p style="text-align: center;">CCOD with abstracts :</p> <ul style="list-style-type: none"> • Physical Chemical and Earth Science • Social and Behavioral Science • Agricultural Biology and Environmental Science • Engineering, Computing and Technology <p style="text-align: center;">CD-ROMs</p> <ul style="list-style-type: none"> • IEEE Electronic Library (IEL) Full Text, Coverage from 1988-99 • Chemical Abstract on CD-ROM • Physics Abstracts (INSPEC) on CD-ROM • Compendex Index on CD-ROM • Agricultural engineering Abstracts (CAB) • Biotechnology and Bioengineering Abstract on CD-ROM • Video cassette of centre for education technology, IIT-KGP (15 courses –540 Video cassettes of 1 hr. each) <p style="text-align: center;">BACK TO TOP</p>
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3.8 Electronic Journals(Full Text) Linked To Publishers' Addresses

The CL-IITKGP is subscribing more than one thousand (1000) periodicals (hard copy) in which more than 150 periodicals are freely available on on-line through Internet. CLCPS-IITKGP has created a web page of all electronic journals and linked to the address of the publishers in which one has to just click and put user ID and password in order to reach directly to the electronic journals. The main advantage of this page is that there is no need to open browser and type the publisher address again and again. A sample web page of the list of electronic journals (full text) available at CLCPS-IITKGP is demonstrated below :

<p align="center">LIST OF THE ELECTRONIC JOURNALS FULL TEXT</p> <p align="center">MCB PUBLICATION INSTITUTE OF PHYSICS JOHN WILEY INTERSCIENCE AMERICAN PHYSICAL SOCIETY ELSEVIER SCIENCE AMERICAN INSTITUTE OF PHYSICS AMERICAN COMPUTING MACHINERY (ACM) NATURE CERAMIC ABSTRACTS ETC</p> <p align="center"><i>Please enter USER ID : central library</i> <i>PASSWORD : jnl007</i> <i>BACK TO TOP</i></p>

3.9 Current Arrival List Of Periodicals For The Subscription Year 2000

A date field on fortnightly basis is to be created in the database in order to retrieve the list of periodicals arrived in the library at fortnightly interval. As for example, to retrieve the list of periodicals acquired by the CLCPS-IITKGP on and from January 1-15, one has to key-in 15.01.2000 into the computer. Similarly, key-in of 31.01.2000 will retrieve the list of periodicals acquired by the CLCPS- IITKGP on and from 16.01.2000 to 31.01.2000. This procedure will help to select only those periodicals from the huge database which are entered currently. The items of information of this web page will consist of the name of the periodicals, volume numbers, issue numbers, current issue numbers and department codes as demonstrated below. The users will identify recent arrival of current periodicals on their desktops.

CENTRAL LIBRARY (PERIODICAL SECTION) I.I.T.KHARAGPUR Fortnightly Current Arrival List - 2000					
SL.NO.	NAME OF THE JOURNALS	VOLUME	ISSUES	CURR.ISSUES	DPTT
1.	JL OF DOCUMENTATION	56	1	1	LIB
2.	JL OF PHYSICS -A	32	1-13,15	15	PHY
3.	TRENDS IN BIOTECHNOLOGY	17	1-2	2	BIO
<i>All other documents will display like this</i> BACK TO TOP					

3.10 Union Current Arrival List Of Periodicals Subscribed By The Iits Under RSP

Recently the IITKGP has agreed to form a consortium of libraries. As a consortium, the participating libraries will share periodical resources through efficient inter-library loan system. Each participating libraries will send their current arrival list through E-mail in the following respective fields :

Name of the journals	Volume numbers	Issue numbers	Name of the IITs (location)
----------------------	----------------	---------------	-----------------------------

After receiving the list from all IITs, a union database file is to be created containing several fields, say jnlt.dbf(file name). A report file, say jnlt.frm, is to be created containing the above fields and that jnl.frm file is to be converted into the jnlt.txt file. After creating the jnlt.txt file the HTML editor is to be opened and the jnlt.txt file is to be called for and the HTML tags will be used in the same file and it is to be saved as jnlt.html. The system will display the union current arrival list of periodicals in the following manner :

CENTRAL LIBRARY (RESOURCE SHARING SECTION)			
I.I.T.KHARAGPUR			
FORTNIGHTLY UNION CURRENT ARRIVAL LIST OF PERIODICALS FOR THE YEAR 1999			
Name of the journals.	Volume no.	Issue no.	Name of the IITs. (Location)
JL OF DOCUMENTATION	55	1-2	IITKGP
JL OF PHYSICS -A	32	1-13,15	IITD
TRENDS IN BIOTECHNOLOGY	17	1-2	IITK
INDUSTRIAL ROBOT	26	2	IITG
INFORMATION & COMPUTATION	149	1-2	IITM
INFORMATION AND MANAGEMENT	35	1-5	IITB
INFORMATION PROCESSING LETTERS	69	1-3	IITKGP

All other documents will display like this

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3.11 Main Home Page of Electronic Information Services of Current Periodicals at CLCPS-IITKGP

The main web page is to be created by adopting the similar procedures enumerated above. Each item in this page will be hyperlinked to the other pages. Users will have to select the listed items and to click the same. Then it will display the information as demonstrated below. Back to top will indicate one to return the main page from where user can select again some other items.

WELCOME TO CENTRAL LIBRARY CURRENT PERIODICAL SECTION	
IIT-KHARAGPUR , WEST BENGAL , INDIA	
CLICK BELOW FOR MORE INFORMATION	
List of Periodicals for the Year 2000(Alphabetically/Search)	
Union List of periodicals Subscribed by the IITs Under RSP (Alphabetically/Search)	
Department-wise List of Periodicals (26 Departments)	
List of Electronic Databases for Subscription Year 2000	
Electronic Journals (full text) and Linked to the Publisher's Addresses	
Current Arrival List of Periodicals for the year 1999	
Union Current Arrival List of Periodicals Subscribed by the IITs Under RSP (Alphabetically/Search)	
Please Mail Your Suggestions Comments	

Note:

In the above main web page, there are two types of search -one is alphabetically and other one is key word search. Alphabetical search provides information alphabetically and Key word search provides information as per choice of the users in respect of title, department codes , publisher, etc . For Key word searching, a program is to be written in the http web server.

4. TECHNIQUES FOR CREATING SELF SCREEN PROGRAM FOR KEY WORD SEARCHING

In the web server a small program is to be written for displaying a box where the key word is to be typed and enter in order to display the required information.

4.1 Displaying a self Screen for key word searching

From the main web page, if the user select the search option and click accordingly, the system will display the following screen where one has to key-in the required information, say CSE (computer science & engineering department) in the box.

You can search this index. Type the keyword(s) you want to search for :

CSE

*To look for **Union Current Arrival List of Periodicals Subscribed by Among IITs Under Resource Sharing Program** type the Title String / Dept. code / Any Keyword.*

Example: COMPUTER (or) cse (or) lib etc., would give the Titles available with the Keyword COMPUTER or DEPARTMENT or TITLE.

After keying-in the code of the deptt., it will display all the periodicals acquired by the Computer Science & Engineering Department along with volume, serial, current issue and location.

Name of the journals	Volume	Serials	Location.
JL OF ALGORITHMS	30-32	1-2EACH	IITKGP(KHARAGPUR)
JL OF AUTOMAED REASONING	22	1-4	IITB (BOMBAY)
PATTERN RECOGNITION LETTERS	20	1-6	IITG (GUWAHATI)
INTER JL OF HUMAN COMPUTER	50	1-5	IITD (DELHI)
JL OF ELECTRONIC	13	1-3	IITKGP(KHARAGPUR)
JL OF COMPUTER & SYSTEM SC.	58	1-3	IITM (MADRAS)
INTER JL OF APPROXIMATE	20	1-3	IITK (KANPUR)
JL OF GRAPH THEORY	30	1-4	IITD (DELHI)

5. INTERNET SOLUTION TO CREATE AUTOMATIC WEB PAGE

There are several web sites to create automatic web page designing like table, frames, fronts, background color, etc. For this one has to search the Address:
<http://www.totallyfreestuff.com/web/>

6. CONCLUSION

Access to library service from outside the library building is increasing day by day. Users seek minimum assistance from the library staff and maximum use of library resources available at IITKGP and other IITs. The CL-IITKGP has taken full advantage of the IT in order

to provide pin-pointed information to its target user group. It appears that the Web-based information services of current periodicals has created enthusiasm among the users of all IITs particularly in the context of the fulfillment of the fourth law of Library Science as enunciated by Prof. Ranganathan. By this services all the users of all IITs can access this page through Internet address: <http://www.iitkgp.ernet.in/jlcl> or <http://www.iitkgp.ernet.in/> <http://144.16.192.18>. The services like, union Current arrival list of periodicals subscribed by the IITs under RSP, one can confirm the availability of hard copies of the particular periodicals (including volume no. Issue no) and can send their requests for full articles thorough E-mail, and the full text will be provided by e-mail after scanning the full text from the hard copy.

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