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INFLIBNET NEWSLETTER



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Feature Article

Cloud Computing and its Impact
on Library Services

Shri Yatrik Patel

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N-LIST (E-resources for College)

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From the Director's Desk



The 8th International CALIBER-2011 was the most important event that took place in the first quarter of Calendar Year 2011. The 8th International CALIBER-2011 was held at Goa University from 2nd to 4th March 2011

on the theme "Towards Building a Knowledge Society: Library as Catalyst for Knowledge Discovery and Management" in collaboration with Goa University, Goa. More than 400 delegates had registered for the Convention including delegates from Sri Lanka, Canada, UK, USA and Singapore. 62 papers were selected for presentation in the Convention and 120 papers were selected for poster session from over 220 submissions. The event was a grand success. The delegates not only enjoyed the discussions and deliberations during the Convention but also the festive environment of Goa. The Convention gave us an opportunity to invite Prof. Arun Nigavekar, former Chairman, UGC to inaugurate the convention and Prof. Kembhavi to deliver the keynote address. Prof. Nigavekar took note of the progress made under the schemes that were initiated by him during his tenure as Chairman, UGC.

Significant progress was made in the N-LIST (National Library and Information Services Infrastructure for Scholarly Content) Project during the year. ₹ 40.115 crores were sanctioned to the N-LIST Project in accordance to the formal proposal submitted to the MHRD under NME-ICT Project. The total number of colleges registered under the N-LIST Programme grew from 708 in April 2010 to 1236 by the end of March 2011. Likewise, significant progress was also made in Shodhganga initiative that provides for hosting of full-text of electronic version of Ph.D theses awarded by the universities in India. 22 universities have signed MoU with INFLIBNET Centre on Shodhganga and total number of full-text theses available in Shodhganga has grown to 1600 as on March 31, 2011.

Imparting training and awareness programme is one of the important activities that the INFLIBNET Centre performs. During

the period under report, a workshop on D-Space was organised at University of Calicut, Kozhikode (Kerala) from January 3 to 7, 2011. 25 participants consisting of library, information and computer science professionals from various universities and institutions from nearby places participated in the Workshop. Four INFLIBNET Regional Training Programme on Library Automation (IRTPLA) were organised by the Centre in collaboration with various colleges ranging from 3 to 5 days. Each programme benefited 30 to 150 participants. Most of the IRTPLA programmes are built-up around training on SOUL 2.0 including some other elements on library automation and digital libraries. Two User Awareness Programmes on N-LIST were organised at Manonmaniam Sundarnar University, Tirunelveli (Tamil Nadu) and Manipur University that were attended by 150 and 100 participants, respectively.

The INFLIBNET Family is pleased to welcome Shri Swapnil Patel and Shri Divyakant Vaghela, two of them have joined the Centre as Scientist-B (CS) and Shri Saroj Panda who joined as Scientific and Technical Assistant (LS) during the quarter under report. We are indeed grateful to the UGC for allowing us to fill-in all the scientific and technical vacancies that were lying vacant. Soon we will be filling-in all the remaining vacant positions that were advertised last year.

I am also pleased to welcome Dr. R K Chadha, Joint Secretary, Lok Sabha on our Governing Board. As part of the feature article on one of the topics on cutting-edge technology, this issue carries an article on "Cloud Computing and Its Impact on Library Services" by Shri Yatrik Patel, one of the scientists of the Centre.

IN



(Jagdish Arora)

8th International CALIBER 2011, Goa University, Goa, March 2-4, 2011

The 8th International CALIBER 2011 was organised by the INFLIBNET Centre at Goa University, Goa from 2nd to 4th March 2011 on the theme "Towards Building a Knowledge Society: Library as Catalyst for Knowledge Discovery and Management" in collaboration with the Goa University, Goa. The main theme of the convention was divided into four sub-themes i.e. Knowledge Discovery Tools and Techniques; Web Resource Management and Semantic Web; Information Literacy; and Measuring Research Productivity and ROI. More than 400 delegates had registered for the convention including delegates from Sri Lanka, Canada, UK, US and Singapore. 62 papers were selected for presentations in the convention and 120 papers were selected for poster sessions from over 220 submissions.

Inaugural Session

Prof. Arun Nigvekar, former Chairman of the UGC inaugurated the convention. Prof. Nigvekar, in his inaugural address, elaborated on the history and development of the INFLIBNET Centre. He touched upon the massive technological changes that the Centre has undergone and its positive impact on the higher education community. He said that no library can exist as an island, however big it may be. The libraries have to depend on other libraries to

provide services to its users to fulfill their information requirements. He also highlighted the important decisions that were taken by the UGC in 2005 on electronic submission of theses and creation of e-learning products by college/university teachers that enables them to earn credits for their career development. He emphasized that the libraries should play an active role in the content creation process and its delivery to the users. The synergy between academics and librarians is very crucial in the process of content creation. Prof. Nigvekar proposed that these aspects might be considered while drafting 12th Five Year Plan for the INFLIBNET Centre. Moreover, he mentioned that the INFLIBNET should work in close collaboration with the Consortium for Educational Communication (CEC) and Educational Multimedia Research Centres (EMRCs) for content development and its delivery.

Dr. Jagadish Arora, Director, INFLIBNET Centre welcomed the guests and participants to the convention. He provided an overview of INFLIBNET Centre and highlighted its recent initiatives. Shri Manoj Kumar K, Scientist D (CS), INFLIBNET Centre and convener of the convention highlighted the theme and sub-themes of the convention.



Prof. Arun Nigvekar Inaugurating the International CALIBER 2011 at Goa University, Goa by Lighting the Traditional Lamp

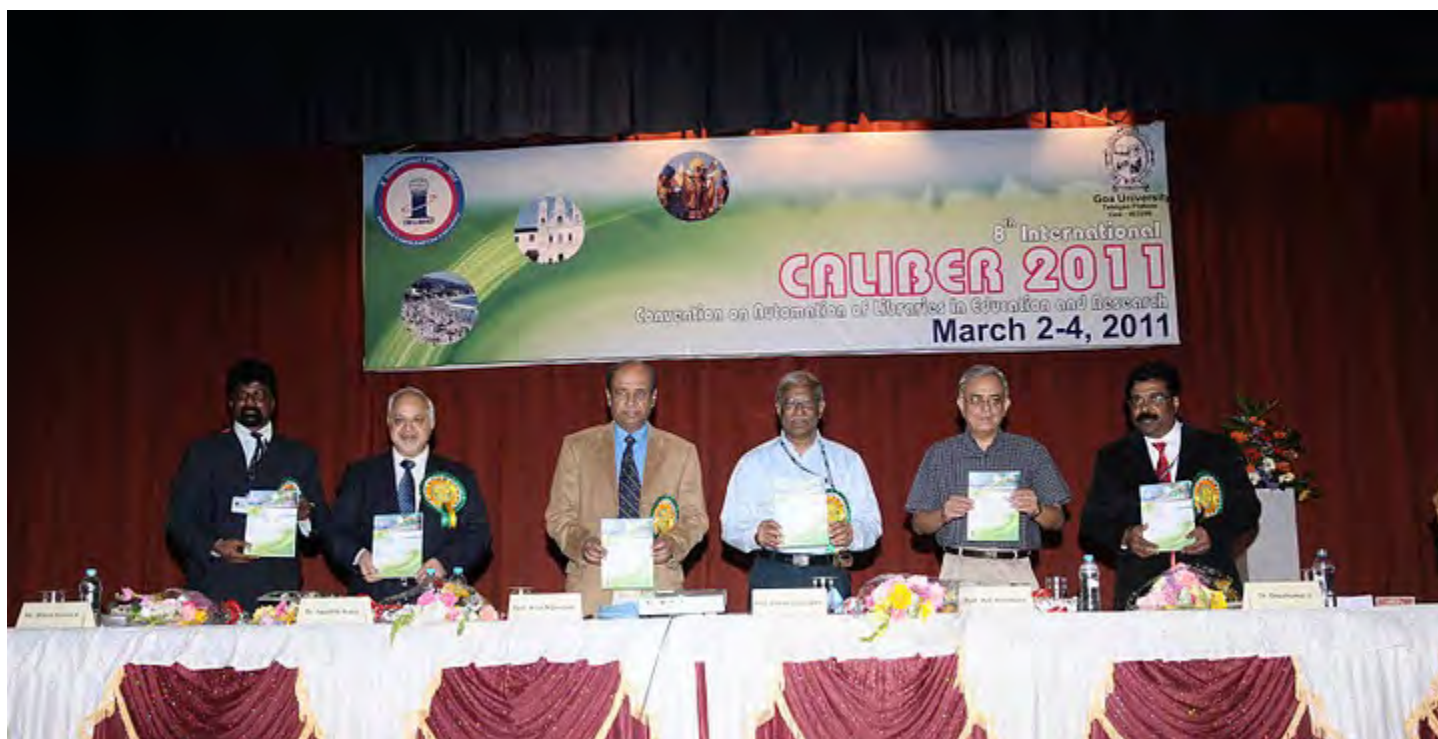
Prof. Dileep Deobagkar, Vice-Chancellor, Goa University, in his presidential address, highlighted the unique features of the libraries in Goa. He appreciated the support of INFLIBNET Centre to Goa University in terms of access to e-resources. He cautioned that the new technological tools such as anti-plagiarism software should be used with greater caution lest it damage the fundamentals of academics. He advocated for academic evolution rather than revolution.

Prof. Ajit Kembhavi, Director, IUCAA and Chairman, National Steering Committee, UGC-Infonet Digital Library Consortium stated that he is very close to the libraries and librarians because of his involvement with INFLIBNET activities and a simile between the astronomy research and knowledge discovery process in general. In his key-note address entitled 'E' (Electronic and Education), he indicated that finding an astronomical object from the galaxies is as difficult as finding a piece of information from the documented knowledge. He underlined the need for use of modern technology to handle such massive information of complex nature for appropriate analysis and interpretation of results. Referring to the N-LIST Project, he hoped that the digital divide between universities and colleges would soon be bridged in near future with efforts of INFLIBNET Centre. He stressed upon the need for statistical data such as number of downloads, publications, citations, etc., and their correlation to showcase the important of access to scholarly content to policy makers and academic administrators. He delved into the possible activities, features and services that the INFLIBNET Centre can offer to maintain its relevance in the evolved academic structure. He emphasized that libraries should evolve tools and technologies that facilitates collation of data and scholarly content in a touch screen environment in order to continue to be relevant to the society.

Dignitaries on the dais released proceedings of International CALIBER 2011 in print, on CD, abstracts booklet on poster presentations, N-LIST Compendium and Convention souvenir published on the occasion. Dr. Gopakumar, Librarian, Goa University and Organizing Secretary of the Convention extended a warm vote of thanks. Prof. AK Bardol, Chairman, Department of Library and Information Science, Mangalore University was the Convention Director and Dr. M.P. Tapaswi, Librarian, NIO, Goa was the Rapporteur General of the Convention. Shri Manoj Kumar K, Scientist D (CS) and Shri Rajesh Chandrakar, Scientist B (LS) were the Convener and Joint-Convener of the Convention, respectively.

Tutorials

Two tutorials, namely, ETD and Shodhganga, and SOUL 2.0 and N-LIST, were organised for the benefit of delegates of the Convention. The tutorial on "ETD and Shodhganga: a reservoir of Indian theses" was delivered by Shri Yatrik Patel, Scientist B (CS), INFLIBNET Centre which was chaired by Shri Rajesh Chandrakar, Scientist B (LS), INFLIBNET Centre. The tutorial on "SOUL 2.0 and N-LIST Programme" was delivered by Shri Ashok Kumar Rai, Scientist D (CS), INFLIBNET Centre which was chaired by Shri Prem Chand, Librarian, Indian Institute of Advanced Studies, Shimla. Registration for both the tutorials were free.



Prof. Arun Nigvekar, former Chairman, UGC releasing the Convention Proceedings of the International CALIBER 2011

Technical Sessions

The following theme papers were presented during the convention:

Sr. No.	Name of the Theme paper	Name of the experts
1	Knowledge Discovery: Tools and Techniques	Dr. John Berrie, USA; and Mrs. Ashleigh Bell, UK
2	Web Resource Management and Semantic Web	Dr. T S Kumbar, DAIICT, Gandhinagar; and Dr. Gordon Dunsire, UK
3	Information Literacy	Prof. Uma Kanjilal, IGNOU, New Delhi
4	Measuring Research Productivity and ROI	Shri N V Sathyanarayana, Informatics (India) Ltd., Bengaluru

There were total 9 technical sessions held during the convention, wherein 49 presentations were made including the presentations on the theme papers.

Technical Session	Theme of the Session	Chairperson	Rapporteur	No. of Papers	No. of Papers Presented
Session 1	Knowledge Discovery: Tools and Techniques	Dr. Samyuktha Ravi	Dr. Vishala B.K.	6	4
Session 2	Knowledge Discovery: Tools and Techniques	Dr. Samyuktha Ravi	Dr. Karlos Fernandes	8	7
Session 3	Web Resource Management and Semantic Web	Dr. R K Chadha	Shri Yatrik Patel	8	6
Session 4	Web Resource Management and Semantic Web	Dr. P K Gupta	Shri Ashok Kumar Rai	8	6
Session 5	Web Resource Management and Semantic Web	Dr. T R Kem	Shri Umesha Naik	6	5
Session 6	Information Literacy	Dr. M K Bhandi	Dr. Maya Verma	9	7
Session 7	Information Literacy	Dr. C V Rajan Pillai	Dr. Kannappanavar B U	7	5
Session 8	Measuring Research Productivity and ROI	Dr. T S Kumbar	Dr. Anuradha V	7	5
Session 9	Measuring Research Productivity and ROI	Dr. M S Rana	Shri Dinesh Pradhan	8	4
Poster Session	All themes	Dr. M P Tapaswi		120	30

Panel Discussion

The panel discussion on the theme of the convention was held prior to the Valedictory session. Dr. Koteswara Rao, Librarian, University of Hyderabad, Dr. H S Siddamalaiah, NIMHAMS, Dr. M K Bhandi, Librarian, Mangalore University, Dr. Pawan K Gupta, Director, Central Library, Rajasthan University, Jaipur, Dr. R K Chadha, Joint Secretary, Lok Sabha, Dr. AK Bardol, Head, DLIS, Mangalore University, Mangalore were panelist for the session.

Dr Koteswara Rao emphasized that the role of the libraries are changing, thus, librarians should also take additional role of publishing the scholarly content of their respective institutions through institutional repositories. Dr. Siddamalaiah mentioned that the information aggregators are taking the role of the librarians by aggregating the scholarly content in a given subject

field and offering through a single integrated platform, just as the libraries functions. Dr. Bhandi emphasized that the consortium subscribed e-resources that have led to increase in quantity and quality of research publications. Dr. Gupta emphasized that the strength of librarians are in the knowledge organizations, he therefore, suggested that the librarians should contribute to development of ontology and semantic web. Dr. Bardol informed that the supplementary courses such as 'information literacy' should not be included into the curriculum as its content is already overcrowded. Dr. Chadha, Chair of the Panel, summed up the discussions stating that the library is a service organization, and therefore the user participation and feedback are most important in its development. He said that one must look for an opportunity to serve the users with additional, but, relevant information that may or may not confine to the documents.



Participants of the 8th International CALIBER 2011

Suggestions for the INFLIBNET Products and Services

- ◆ SOUL 2.0 is due for next upgradation with Web 2.0 technologies and federated search imbedded in it;
- ◆ Shodhganga uses DSpace which is Unicode compliant, therefore, the titles of the thesis displayed in Shodhganga should also be in the native language; and
- ◆ One additional metadata field 'Place of work' may be added into Shodhganga for research scholars who gets their Ph.D. from a university, and actually do their research work from a research institution, such as NCL, Pune, etc.

Recommendations of the Convention

Following recommendations emerged from the discussions and deliberations during the 3-day convention:

- ◆ Develop knowledge portals to handle complex information requirements;
- ◆ Subject-wise analysis of e-resources offered by the consortium may be provided to assess availability of e-resources in different subject domain;
- ◆ Subject gateways are useful resources of information, it provides a great insight into a subject. The INFLIBNET Centre may build such subject gateways targeting Indian content;
- ◆ Development of subject portals may be assigned as topic of dissertation for the library and information science students;
- ◆ The encoding of the open source software developed by the INFLIBNET should be made available on open platforms;
- ◆ INFLIBNET's online copy cataloguing system is a very useful tool and needs more visibility by way of training programmes and other promotional media;

- ◆ There is a need to extend online and copy cataloguing facility beyond SOUL, Koha and NewGenLib software; and
- ◆ INFLIBNET and IGNOU may partner to develop content for "digital information literacy programme".

Resolutions

The following resolutions were made during the convention:

- ◆ Libraries should be renamed as Knowledge Resource Centres (KRCs) considering their current services and activities;
- ◆ CALIBER should serve as a platform to provide interaction between library professionals and academic personnel to develop better synergy within the academic system;
- ◆ The technology today facilitates convergence and consolidation. As such, the INFLIBNET urges its members to act as its representatives to advocate the activities and facilities at institutional and regional level among the user community instead of forming independent networking at regional and local level;
- ◆ Libraries have greater opportunities for creating digital archives and, therefore, they should not limit their activities to creation of bibliographic databases alone. Libraries should explore the liberal policies of Govt. of India to fund digitization projects;
- ◆ Library professionals should develop proficiency in case of e-resources and impart training to the users on information literacy;
- ◆ Good libraries make good universities. The libraries should use metrics and impact factor to derive ROI;
- ◆ Libraries should take-up the additional role of publishing via institutional repository. **IN**

Workshop on Dspace, University of Calicut, Kozhikode, January 3-7, 2011

The C H Mohammed Koya Library, University of Calicut, in collaboration with the INFLIBNET Centre, organised 5-day National Workshop on Dspace from 3rd to 7th January 2011. Dr. Jagdish Arora, Director, INFLIBNET Centre, Ahmedabad inaugurated the Workshop. Prof. Anwar Jahan Zuberi, Vice Chancellor, University of Calicut presided over the function. Dr. Abdul Azeez T.A., Librarian in-charge welcomed the participants and guests. Mr. Manoj Kumar K, Scientist D, INFLIBNET Centre, Dr. K M Jayaram, Syndicate Member, University of Calicut and Dr. K P Muraleedharan, Director, College Development Council, University of Calicut felicitated the function. Dr. K N Soman, Assistant Librarian proposed a warm vote of thanks.

Besides Dr. Jagdish Arora and Shri Manoj Kumar K. from INFLIBNET Centre, Shri Yatrik Patel, Scientist C, INFLIBNET Centre, Dr. Mohammed Salith T K, Information Scientist, University of Calicut, Dr. Mohammed Haneefa K, Assistant Professor, DLISc, University of Calicut, Dr. M G Sreekumar, Librarian, IIM, Kozhikode, Mr. T R Nishad, Lime Consultants were the resource persons for the Workshop. 25 participants consisting of library, information and computer science professionals from various universities and institutions of nearby places participated in the Workshop.



Dr. Jagdish Arora, Director, INFLIBNET Centre, Ahmedabad addressing the participants during Inaugural Session of the Workshop on Dspace at University of Calicut, Kozhikode

Prof. T K Narayanan, Registrar, University of Calicut was the Chief Guest for Valedictory Session. Dr. Abdul Azeez T.A., Shri Manoj Kumar K and Shri Yatrik Patel also presented their views during the Valedictory Session. Feedback were obtained

from the participants in order to improve the quality of the workshop in future. Certificates of Participation were distributed to all the participants. [IN](#)

University of Calicut Signs MoU on Shodhganga

The University of Calicut signed an MoU with the INFLIBNET Centre, Ahmedabad on 3rd January 2011 for hosting of electronic version of the Ph.D. theses awarded by the University into the Shodhganga. Prof. Anwar Jahan Zuberi, Vice Chancellor, University of Calicut and Dr. Jagdish Arora, Director, INFLIBNET Centre signed the MoU on behalf of their respective institutions.

Dr. K P Muraleedharan, Director, College Development Council, University of Calicut handed over electronic copies of the Ph.D. theses to Shri Manoj Kumar K, Scientist D (CS), INFLIBNET Centre in the presence of Dr. Abdul Azeez T.A., University Librarian in-Charge, University of Calicut and Dr. K M Jayaram, Syndicate Member, University of Calicut. **IN**

Rs 40.115 Crores Sanctioned for the N-LIST Project

A formal proposal was submitted to the Ministry of Human Resource Development (MHRD), under the NME-ICT projecting requirement of funds for the year 2011. Based on recommendation of Standing Committee, the Project Approval Board of MHRD has sanctioned proposed amount of Rs 40.115 crores. The Ministry has released Rs. 35.115 crores (Rupees

thirty five crores eleven lakhs and fifty thousand only) vide release order No F.2-10/2008-DL dated March 15, 2011 as first installment for the project.

The distribution of the funds for college component and cross-subscription of e-resources is as follows:

Consortium / Institute	Rupees	%
UGC-Infonet, INFLIBNET Centre, Ahmedabad	14,30,07,000.00	40.73
INDEST-AICTE, IIT Delhi	20,81,43,000.00	59.27
Total	35,11,50,000.00	100

IN

Training Programme on SOUL 2.0

The INFLIBNET Centre organised following two training programmes on SOUL 2.0 at the INFLIBNET Centre during the period under report:

Name of the Programme	Date of the Programme	Venue	No. of Participants
88 th SOUL 2.0 Training Programme	January 17-21, 2011	INFLIBNET Centre, Ahmedabad	31
89 th SOUL 2.0 Training Programme	March 14-18, 2011	INFLIBNET Centre, Ahmedabad	26



Participants of 88th Training Programme on SOUL 2.0 with the Director and Technical Staff of the INFLIBNET Centre



Participants of 89th Training Programme on SOUL 2.0 with the Director and Technical Staff of the INFLIBNET Centre **IN**

INFLIBNET Regional Training Programme on Library Automation

Four INFLIBNET Regional Training Programme on Library Automation (IRTPLA) were organized by the INFLIBNET Centre in collaboration with Govt. MLB Girls PG (Autonomous) College, Bhopal, Mata Gujri College, Fatehgarh Sahib, Mohanlal Sukhadia University, Udaipur and Orissa University of Agriculture and Technology, Bhubaneswar. A brief reports of the programmes are given below.

Govt. MLB Girls PG (Autonomous) College, Bhopal, January 10-14, 2011

Govt Maharani Laxmi Bai (MLB) Girls P.G. (Autonomous) College, Bhopal, in collaboration with the INFLIBNET Centre and its Regional Service Centre (Central Zone M.P. & C.G.), Bhopal organized IRTPLA at the College from 10th to 14th January 2011. 52 participants mostly librarians from different colleges of the region, attended the training programme. The Chief Guest, Mr. Vishwas Sarang, M.L.A. (Narela) and President Madhya Pradesh Laghu Vanopaj Sangh inaugurated the programme. Mrs. Krishna Gaur, Mayor, Nagar Nigam Bhopal was the Chairperson of the Inaugural Session. Dr. U.C. Jain, Principal, MLB Girls PG (Autonomous) College welcomed the participants and guests to the programme. Dr. Jain, in his welcome speech, enumerated the achievements of the college and noted the landmark created as first automated library of the State. Mr. Sarang, in his inaugural speech, thanked to INFLIBNET Centre for playing important role in library automation in the state.

The 5-day training programme was divided into two sessions for covering different modules of SOUL 2.0 along with its installation and hands-on practice. Technical presentations were made in the morning sessions and the hands-on practice were imparted in the afternoon sessions. Mr. Abhishek Kumar, Scientist B (CS), Shri Rakesh Khare, SOUL Regional Coordinator and Librarian, MLB PG Girls College, Shri Vijay Shrimali, SOUL Technical Assistant, Shri Kamlesh Vegad, SOUL Technical Assistant and Shri Kavi CA, Technical Assistant of the Regional Service Centre were resource persons for the training programme.

Mr. Uma Shankar Gupta, Home Minister, Govt. of Madhya Pradesh was the Chief Guest for the Concluding Session. Dr. Shobhna Bajpai (Maru), Principal, Sarojini Naidu Girls PG (Autonomous) College, Bhopal was the Chairperson of the session. The feedback from the participants were very positive. Participants suggested to have such training programme in future for more than 5 days. The participants also made some recommendations for improving the functionalities of the SOUL 2.0.



Dignitaries on the Dais of the IRTPLA Training Programme at the MLB PG Girls College, Bhopal

Besides, the college also organised one-day User Awareness Programme on N-LIST on 11th January 2011. The programme was attended by more than seventy professors, research scholars, students of various colleges in Bhopal. Shri Abhishek Kumar made a presentation on e-resources available to the colleges under N-LIST Programme and highlighted the important points of the programme including its accessibility to the users.

Mata Gujri College, Fatehgarh Sahib (Punjab), February 8-12, 2011

The Mata Gujri College, Fatehgarh Sahib, Punjab in collaboration with INFLIBNET Centre, Ahmedabad organized IRTPLA at the College from 8th to 12th February 2011. Twenty nine participants from different colleges of the region participated in the programme. Mrs Hema Cholin, STA (LS), Ms Nabila Shaikh, SOUL

Technical Assistant (CS), INFLIBNET Centre and Shri Ranjeet Kumar, Technical Assistant, SOUL Regional Service Centre, New Delhi were the resource persons for the programme.

Mrs. Jaswinder Kaur Walia, Assistant Librarian, Mata Gujri College and Co-ordinator of the Programme welcomed the participants and guests. The programme was inaugurated by Dr. Gurmohan Singh, Director SGPC Education by lighting the traditional lamp. Dr B S Ghuman, Dean, Faculty of Social Sciences, Punjab University, Chandigarh and Dr. Jatinder Singh Sidhu, Director-Principal, Mata Gujri College, Fatehgarh Sahib were also present during the Inaugural Session. Dr Gurmohan Singh, Dr BS Ghuman and Dr Jatinder Singh Sidhu shared their views and advised participants to take the training programme seriously.



INFLIBNET Resource Persons along with the Participants and Guest of the Training Programme

Mrs. Hema Cholin introduced the participants to the activities and services of the INFLIBNET Centre and N-LIST programme for college libraries and different modules of the SOUL 2.0. Ms. Nabila Shaikh and Sh. Ranjeeth Kumar helped in imparting hands-on practice to the participants. Besides, a lecture on "SQL Basics" was delivered by Dr. Navdeep Singh, Sr Professor, Department of Computer Science, Mata Gujri College. Ms. Manjit

Kaur, Assistant Professor, Department of Library and Information Science made presentation on "Digital Libraries & Consortium". Dr. Jatinder Singh Sidhu and Mrs. Babita, Librarian, Mata Gujri College distributed certificates of participation to the participants during the Valedictory Session. Mrs. Jaswinder Kaur Walia proposed a warm vote of thanks to the participants and INFLIBNET resource persons.

Mohanlal Sukhadia University, Udaipur, February 23–27, 2011

The 5-day IRTPLA was held at University Central Library, Mohanlal Sukhadia University, Udaipur from 23rd to 27th February 2011 for college librarians of the region. The programme was jointly organized by INFLIBNET Centre, Ahmedabad and Mohanlal Sukhadia University (MLSU), Udaipur. Prof. I.V.Trivedi, Vice-Chancellor, MLSU, Udaipur inaugurated the training programme. Prof. L.N. Verma, former Deputy Librarian, University Central Library, MLSU, Udaipur was the Guest of Honour in the

programme. Prof. I V Trivedi also inaugurated the Swarna Jayanti Library Wing of the University Central Library, MLSU, Udaipur.

In the inaugural address, Prof. Trivedi expressed his satisfaction over the progress made in the library in automation of the library and computer networking facilities. Prof. A K Goswami, Officer-in-Charge, University Central Library advocated for use of recent information technologies for better user services. Dr. K Venugopalan, Dean, P G Studies made a brief presentation on campus networking.



Shri Swapnil Patel, Scientist B (CS), INFLIBNET Centre along with the Participants of the IRTPLA Training Programme at Udaipur

Sixty six participants from different libraries of the Rajasthan state participated in the programme. Shri Swapnil Patel, Scientist-B (CS), INFLIBNET Centre, Ahmedabad delivered keynote address focusing on the initiatives of the INFLIBNET Centre pertaining

to SOUL 2.0 and e-resources available through UGC-Infonet Digital Library Consortium and N-LIST Project to universities and colleges. Besides, following presentations were also made during the programme:

Sr. No.	Title of the presentation	Name of the speaker
1	Planning for Library Automation	Shri T S Bohara, Assistant Librarian, MLSU, Udaipur
2	A Model of Automated Library	Dr. U K Agarwal, Deputy Librarian, MLSU, Udaipur
3	Library Software and its Uses	Dr. T D Tilwani, Associate Professor, DLIS, MLSU, Udaipur
4	Basics of Networking and Security	Dr. J M S Rathore, Assistant Librarian, MLSU, Udaipur
5	Development of Union Catalogue at the INFLIBNET Centre	Shri Swapnil Patel, Scientist B (CS), INFLIBNET Centre
6	Library Software Operations in College Libraries	Dr. L N Verma, former Deputy Librarian, MLSU, Udaipur
7	Lectures on Different Modules of SOUL 2.0 and Hands-on Practice	Shri Swapnil Patel, Shri Mayur Gohel, SOUL Technical Assistant (CS), Shri Imran Mansuri, Project Assistant (LS), INFLIBNET Centre

Dr. Ramkesh Meena, Assistant Librarian, University Central Library and Organizing Secretary of the Programme extended a warm vote of thanks to the participants and guests during the Valedictory session of the programme. Participants were also distributed the certificates of the participation.

Orissa University of Agriculture and Technology, Bhubaneswar, March 7-11, 2011

The Central Library, Orissa University of Agriculture & Technology, Bhubaneswar, organised IRTPLA in collaboration with INFLIBNET Centre, Ahmedabad held at Biju Pattnaik Conference Hall from 7th to 11th March 2011. 30 library & information science professionals working in colleges and universities in Orissa state, participated in the programme. The training programme was inaugurated by Prof. S.S. Nanda, Dean, Extension Education, Orissa University of Agriculture and Technology. Prof. Nanda, in his inaugural speech, emphasised on the necessity of library automation and its benefits to the user community. He stressed on the use of e-resources and databases of agriculture and veterinary sciences. Prof. Nanda suggested that all university libraries in India should get benefit of the services of INFLIBNET Centre. Dr. R K Mahapatra, Chief Librarian, Central Library and Coordinator of the programme welcomed the guests and participants to the programme. Shri Divyakant Vaghela, Scientist

B (CS), INFLIBNET Centre presented a brief on various activities and services of the Centre and discussed about the use of SOUL software among university and college libraries. Dr. R K Mahapatra extended a warm vote of thanks.

The lectures on different modules of the SOUL 2.0 were held at the lecture hall of the College of Forestry and hands-on practice cum demonstrations were held at the Central Library of the University. Shri Saroja Kumar Panda, Scientific & Technical Assistant (LS), INFLIBNET Centre and Shri T Venkata Ravi Kiran, Technical Assistant, SOUL Coordinator of Andhra Pradesh were resource persons for the programme along with Shri Divyakant Vaghela. Besides, Dr. K C Das, Reader, Department of Library & Information Science, Utkal University delivered a lecture on Library Automation & Networking.

Prof. Hrushikesh Senapati, Dean, Post Graduate Programme cum Director of Research Institutes of the University was the Chief Guest for the Valedictory Session. Prof. Senapati stressed upon the need for automation in all kinds of libraries in the information era. He urged the university libraries in India to adopt a single good software for developing a nation-wide network among all the libraries in higher education system. He also advocated for use of existing open access digital libraries software.



Shri Divyakant Vaghela, Scientist B (CS), INFLIBNET Centre during Inaugural Session of the IRTPLA Training programme at Bhubaneswar

IN

User Awareness Programme on N-LIST

As part of the information literacy initiative, the INFLIBNET Centre organises user awareness programme in the universities and colleges having access of e-resources under either UGC-Infonet Digital Library Consortium or N-LIST programme. During the current quarter, the Centre organised following user awareness programmes on N-LIST in Tamil Nadu and Manipur states:

Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, February 11, 2011

The Central Library Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu organised one day User Awareness Programme on Access to E-Resources in collaboration with the INFLIBNET Centre on 11th February 2011 at the Senate Hall. Besides, faculty, research scholars, students and staff of the university, the programme was attended by the principals, faculty, librarians and students of the affiliated colleges and institutions of the Manonmaniam Sundaranar University. Prof R T Sabhapathy Mohan, Vice Chancellor, Manonmaniam Sundaranar University inaugurated the programme. Prof. Sabhapathy Mohan

while inaugurating the programme thanked INFLIBNET Centre for providing e-resources to their affiliated colleges. He also expressed the usefulness of the e-resources in developing quality higher education system. Dr. S Manickam, Registrar, Manonmaniam Sundaranar University was also present along with Shri Ashok Kumar Rai, Scientist D (CS), INFLIBNET Centre, Ahmedabad. Around 150 participants consisting of faculty, research scholars, students, principals and librarians participated in the programme. Shri Ashok Kumar Rai, who was the resource person from the INFLIBNET Centre, made

detailed presentation on N-LIST programme and explained about the e-resources available under it to the member libraries along with access mechanism for to the users.

Dr. A Thirumagal, Librarian, Manonmaniam Sundaranar University and organising Secretary of the User Awareness Programme extended a warm vote of thanks to the participants, Vice Chancellor and Registrar of the University. The certificates of participation were distributed to the participants. Dr. P Balasubramaniam, Deputy Librarian and Dr. K Kannan, Assistant Librarian, Manonmaniam Sundaranar University were Convener and Co-convener of the awareness programme, respectively.



Shri Ashok Kumar Rai, Scientist D (CS), INFLIBNET Centre during the Inaugural Session of the User Awareness Programme at Tirunelveli, Tamil Nadu

Manipur University, March 17, 2011

The Manipur University, Imphal in collaboration with the INFLIBNET Centre, Ahmedabad and the Directorate of University & Higher Education, Government of Manipur organized User Awareness Programme on Access to E-resources under N-LIST Programme on 17th March 2011 at the Manipur University Library. The programme was targeted to colleges in Manipur that are covered under the 12(B) and 2(F) Sections of the UGC Act. Dr. R K Yaiskul Singh, Additional Director, Directorate of University & Higher Education, Government of Manipur inaugurated the programme. Dr. R K Ranjan Singh, Director, College Development Council, Manipur University was the President of the programme and Shri Manoj Kumar K, Scientist-D (CS), INFLIBNET Centre was the Guest of Honour.

Dr. Th. Khomdon Singh, Librarian and Co-ordinator of the programme welcomed the participants and guests and briefed

the participants about the programme. Dr. Yaiskul Singh, in his inaugural address, assured colleges for full support from the Directorate of University & Higher Education for overall development of college libraries in Manipur. Dr. Ranjan, in his Presidential Address, appealed to all the participants for joining such a useful programme in future as well. Shri Manoj Kumar K highlighted the important points of the N-LIST Programme covering the availability of e-resources, importance to the users and its accessibility. Dr. R K Joteen, Information Scientist proposed a warm vote of thanks.

Shri Manoj Kumar K also made presentation on the INFLIBNET Centre and its major activities and services. 100 academicians attended the N-LIST Programme. The impact of the programme was quite good. Participants requested to repeat such types of training programme in future also.



Dr. R K Yaiskul Singh, Additional Director, Directorate of University & Higher Education, Government of Manipur delivering Inaugural Address

IN

Welcome to New Member, Governing Board, INFLIBNET Centre



Dr. R. K. Chadha,
Joint Secretary, (in
the HAG Scale)
Parliament of India,
Lok Sabha
Secretariat was
nominated to
Governing Board of
the INFLIBNET
Centre for a period
of three years w.e.f.
March 2011.
Besides prime
responsibility of
Parliament Library,

Research and Information, Dr. Chadha oversees the work of Parliamentary Committee on SC & ST and Editorial & Translation Service. Dr. Chadha's contribution in planning, designing and construction of most modern, high-tech parliament library building and automation of various activities of Indian Parliament are well known.

Dr. Chadha has nearly 35 years of experience in managing the library and information centres of national and international repute to his credit. He has worked at the British Library, Lucknow; National Institute of Design (NID), Ahmedabad; ICRISAT, Hyderabad; and National Informatics Centre (NIC), New Delhi. He has contributed more than 60 scholarly papers in journals, conferences, seminars, etc. and had been Executive Member of IFLA and Editor of AGLIS Journal.

Dr. Chadha has been actively contributing in the planning of library and information system at national and international level. He has been associated as a Member of Working group on Digital libraries, Ministry of Information Technology 2007-13; Working Group of Planning Commission on LIS for Ninth Five Year Plan; UGC, Subject Panel on LIS, 1997-2000. He has also been associated as consultant with a number of Libraries including IIPA, IGNC, Panjab University, Mizoram University, Aligarh Muslim University for automating their activities.

He had visited USA during 1993 and 2002 under International Visitor Exchange Programme (IVEP) of USIS and had been to Belgium, Denmark, France, Germany, Japan, Thailand, The Netherlands, Sweden, Singapore, and UK on various government and project assignments including for attending International Conferences.

Recipient of SATKAL National Librarian Award, Dr. Chadha has conducted several training programmes in the field of library automation in different parts of the country. He has been involved with several academic assignments including preparation of course material for LIS courses being conducted by various universities besides first online course on digital libraries being conducted by CEC, New Delhi. The Director and INFLIBNET staff welcomes him as a Member of the Governing Board of the INFLIBNET Centre. **IN**

INFLIBNET Celebrated Republic Day

The INFLIBNET Centre celebrated 63rd Republic Day on Wednesday, 26th January 2010. The National Flag was hoisted by Dr. Jagdish Arora, Director, INFLIBNET Centre. Dr Arora addressed the staff members and their families regarding the

activities of the Centre. A number of games were organized for staff and their children during the event and prizes were distributed to the winners of the games.



Dr. Jagdish Arora, Director, INFLIBNET Centre hoisting the National Flag

IN

Feature Article : Cloud Computing and Its Impact on Library Services

Cloud computing is a buzz word now a days in the world of ICT. The concept has made huge impact in the technological application especially pertaining to the database and software applications. The cloud computing can be effectively implemented in various library application too. Different services and applications being used in library for providing services to the users are influenced with cloud computing. Shri Yatrik Patel, Scientist C (CS) of the Centre touches upon the topic of cloud computing in his article entitled "Cloud computing and its impact on library services"

"Cloud Computing" sounds like a new term, actually it is not, infact the term "Cloud" evolved with history of Internet itself. The idea of an "intergalactic computer network" was introduced in the sixties by J.C.R. Licklider (aka "Lick") , who was responsible for enabling the development of ARPANET (Advanced Research Projects Agency Network) in 1969.

According to Larry Roberts, the primary ARPANET architect

"Lick had this concept of the intergalactic network which he believed was everybody could use computers anywhere and get at data anywhere in the world... He didn't have a clue how to build it. He didn't have any idea how to make this happen. But he knew it was important, so he sat down with me and really convinced me that it was important and convinced me into making it happen."

Other experts attribute the concept of cloud computing to computer scientist John McCarthy who proposed the idea of computation being delivered as a public utility which date back to the sixties.

In the past, computers were clustered together to form a single larger computer as common industrial practice that allowed users to configure computers to talk with each other using standard

protocols to balance the computational load across the machines. As a user, one need not care about which CPU ran the program, and the cluster management software ensured that the "best" CPU at that time was used to run the code.

In the early 1990s, Ian Foster and Carl Kesselman came up with a new concept called "Grid". With analogy to the electricity grid where users could plug into the grid and use a metered utility service. The same was applied for computing resources in case of grid computing where in a user plug into a grid of computers and pay for what he/she uses. Grid computing expands the techniques of clustering

where multiple independent clusters act like a grid due to their nature of not being located in a single domain.

The main bottleneck for moving cluster computing to grid computing was "data residency". The computers in the cluster were usually physically connected to the disks holding the data, where as in grid the computational nodes could be situated anywhere in the world. It was fine having all that CPU power available, but the data on which the CPU performed its operations could be thousands of miles away, causing a delay (latency) between data fetched and its execution.

To avoid this bottleneck and to take grid further at the level of service, concept of the cloud computing was introduced, as such concepts of grid computing was evolved to a service offered by data centres.

In short the concept of "cloud" does not only involve computers but also encompasses

- ❖ First cloud around networking (TCP/IP abstraction)
- ❖ Second cloud around documents (WWW data abstraction)
- ❖ The currently emerging cloud abstracts infrastructure complexities of servers, applications, data, and heterogeneous platforms.

The Cloud Computing

In generic term, cloud computing can be defined as "a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction." (NIST)

As far as a user is concerned, a cloud is a service that satisfies all of the following conditions:

- ❖ it is delivered over a telecommunications network;
- ❖ users place reliance on the service for data access and/or data processing;
- ❖ the data is under the legal control of the user;
- ❖ some of the resources on which the service depends are virtualised, i.e. the user has no technical need to know which server is running or which host is delivering the service, or where the hosting device is located; and
- ❖ the service is acquired under a relatively flexible contractual arrangement.

The fundamental elements of cloud computing can be categorised as follows:

Primary	Secondary
<ul style="list-style-type: none">• Virtualisation• Grid technology• Service Oriented Architectures• Distributed Computing• Broadband Networks• Browser as a platform• Free and Open Source Software	<ul style="list-style-type: none">• Autonomic Systems• Web 2.0• Web application frameworks• Service Level Agreements

The conceptual model of cloud promotes availability and is composed of five essential characteristics, three service models, and four deployment models.

Essential Characteristics of Cloud

- ❖ **On-demand self-service** (i.e. automated response by servers to direct requests by clients)
- ❖ **Broad network access** (i.e. from anywhere, using any device)
- ❖ **Resource pooling** (i.e. the provider allocates resources according to demand, rather than assigning resources to particular clients)
- ❖ **Rapid elasticity** (i.e. resources are scalable according to demand)
- ❖ **Measured service** (i.e. resource usage is metered)

Cloud Service Models

Software as a Service (SaaS)

The applications are accessible from various client devices through a thin client interface such as a web browser (e.g., web-based e-mail). The user does not manage or control the underlying cloud infrastructure including network, servers, operating systems, storage, or even individual application capabilities, with the possible exception of limited user-specific application configuration settings.

Platform as a Service (PaaS)

PaaS provides an application platform, or middleware, as a service on which developers can build and deploy custom applications. Common solutions provided in this tier range from APIs and tools to database and business process management systems to security integration, allowing developers to build applications and run them on the infrastructure that the cloud vendor owns and maintains.

Infrastructure as a Service (IaaS)

It is the capability provided to the user to enable processing, storage, networks, and other fundamental computing resources where the user is able to deploy and run arbitrary software, which can include operating systems and applications. The user does not manage or control the underlying cloud infrastructure but has control over operating systems, storage, deployed applications, and possibly limited control of select networking components.

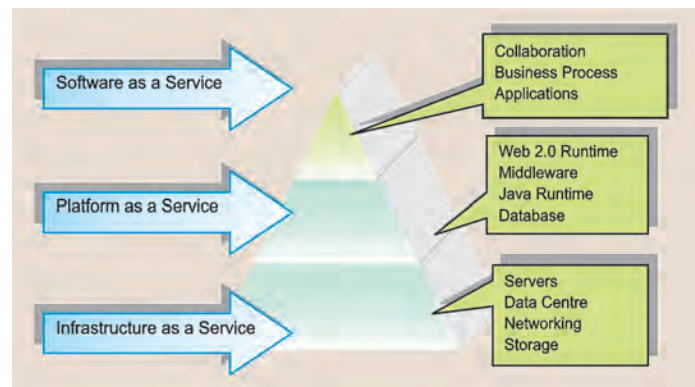


Figure: Cloud Service Models

Cloud Deployment Models

There are four primary cloud deployment models. Each deployment model necessarily exhibits the previously discussed essential characteristics. The basic differences lies in the scope and access of cloud services, as they are made available to end users.

- ❖ **Public Cloud** – A public cloud is a publicly accessible cloud environment owned by a third-party cloud provider.
- ❖ **Community Cloud** – A community cloud is similar to a public cloud except that its access is limited to a specific community of cloud consumers.
- ❖ **Private Cloud** – A private cloud is owned by a single organization.
- ❖ **Hybrid Cloud** – A hybrid cloud is a cloud environment of two or more different cloud deployment models.

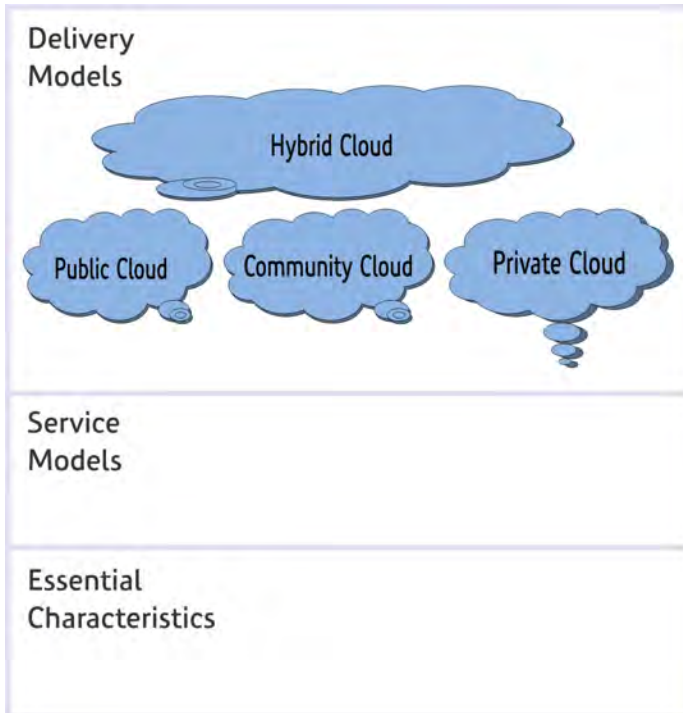


Figure: Conceptual Framework for Cloud Computing

Advantages of Cloud Computing

There are a number of advantages of cloud, though it depends on case to case basis, following are the general benefits:

- ❖ Assured maximum availability of your data, application and infrastructure;
- ❖ Need to pay only for what has been used (i.e. Bandwidth, Resources);
- ❖ Relieves burden of IT staff within organization, as routine jobs are being handled by service providers; and
- ❖ Easily scalable as per requirement of organization.

General disadvantages of cloud are dependent upon network connectivity, security, legal issues (ownership of data), latency etc. which needs to be carefully reviewed.

Cloud Computing and IT-Based Library Services

Most common library services can be divided into following three categories:

Data : Bibliographic, Technical, Access, Licence

Content : Collection, Subscription, Digital, Print, Publishing

Services : Library as a place, content-access, content-creation, research, preservation

As libraries are having service-oriented mission they are in a position to adopt cloud computing. Libraries (or librarians) are in constant search of finding proper solution within limited resources, moreover the outreach of service is quite dependent on support of external or internal computing (IT) support staff. It may also be noted that there are very few libraries that are having IT support staff with expertise on advance IT management. This situation makes SaaS, PaaS or IaaS approach tempting to move towards cloud computing for providing better library services.

Libraries have been adopting cloud-based solutions services like electronic journal access management, statistics tracking, digital library hosting and now trend is coming up for hosted library management systems.

The use of SaaS in libraries dates back to early 2000 with establishment of companies like Serialsolutions (<http://serialssolutions.com>). There are also examples of availability of hosting platforms for Institutional Repositories and others (eg. <http://duracloud.org>; <http://biomedicalcentral.com/>).

In the IaaS, one of the pioneer i.e. Amazon Elastic Computing Cloud (EC2) offers IT infrastructure with differently sized servers using a choice of operating systems, including several flavours of Linux and Windows. EC2 provides organizations with unlimited storage using S3 service, the ability to take snapshots of both data and servers, and the ability to include EC2 servers in an organization's private network. A full catalogue of EC2 features is available on the EC2 website (<http://aws.amazon.com/ec2/>).

Conclusion

By using cloud, library services can be made online without worrying about correct versions of platforms or the underlying technology. It also gives facility to induce new applications quickly without having to focus on identifying available server space or configuration and IT-based library services can be delivered much more quickly than when using local-based hardware or software.

Libraries can make choices about the allocation of resources and to offer better services than would be possible if relying on in-house solutions.

At INFLIBNET Centre, strategies are being worked out to offer cloud based service for Indian academic organizations to support its mandate and promote scholarly communication. It would not be an exaggeration to state that the visionary scientist and educationist Prof. Yash Pal, knowingly or unknowingly applied combination of idea from John McCarthy and concept from JCR Licklider to build Information and Library Network Centre in 90s with a clear cut objective of leveraging the latest technology to create a virtual network of people and resources in academic institutions with an aim to "provide effective and efficient access to knowledge through perseverance, innovation and collaboration and to provide seamless, reliable and ubiquitous access to scholarly electronic resources to the academic community in all educational institutions with a focus on services and tools, processes and practices" (one of the objectives of INFLIBNET Centre) i.e. **the idea of delivering scholarly content as a public service !**

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New Appointment at the Centre



Shri Swapnil Patel joined the INFLIBNET Centre on 1st February 2011 as Scientist B (CS). Prior to his present assignment, he was Project Officer (CS) at the Centre for more than 3 years. He has completed Bachelor of Engineering in Computer Science from Hemchandracharya North Gujarat University, Patan. He is associated with the Software R&D and Open Source Software R&D Group of the Centre. At present, he is working on Indian Subject Gateway Portal of the Centre. He has also contributed to SOUL 2.0 development. He has number of papers in seminars and conferences to his credit. His areas of research interests are data transfer using different database servers, creating institutional repositories and open source software development related to library science field. Shri Swapnil can be contacted at swapnil@inlibnet.ac.in.



Shri Divyakant Vaghela joined the INFLIBNET Centre on 1st February 2011 as Scientist B (CS). He has completed Bachelor of Engineering in Computer Science from Hemchandracharya North Gujarat University, Patan. Prior to his present assignment, he was working in the Centre as Project Officer (CS) for more than 2 years and as Computer Programmer for almost a year. He is associated with the Software R&D Group of the Centre. Shri Vaghela is presently engaged in design and development of the SOUL 2.0, its installation, customization and trouble shooting. He also has number of papers in seminars and conferences. His areas of interest are Library Automation, Database Management and Data Conversion. He can be contacted at divyakant@inlibnet.ac.in.



Mr. Saroja Kumar Panda joined INFLIBNET Centre as Scientific & Technical Assistant-I (LS) on 18th October 2011. He did his Bachelor of Science and Master of Library and Information Science from Utkal University, Bhubaneswar. Prior to joining in this post, he was a Project Assistant (LS) for more than 2 years and Project Associate (LS) for more than 1 year in the Centre. Shri Panda is associated with N-LIST Project, ILL service and e-consortium activities of the Centre. He has contributed a number of papers in seminars and conferences. His areas of interest are e-resource management, ILL service, library automation & open source software in the field of library science. He can be contacted at saroj@inlibnet.ac.in. **IN**

Staff News

North Maharashtra University, Jalgaon, February 21, 2011

Shri H G Hosamani, Scientist B (LS) was invited as Resource Person to the North Maharashtra University, Jalgaon on February 21, 2011 during One Day Workshop on Use of SOUL Software for Library Automation. The Workshop was jointly organised by the Central Library and the Department of Library and Information Science, North Maharashtra University, Jalgaon. More than 100

library professionals consisting of college librarians and library science students participated in the programme. Shri Hosamani made presentation on Overview of SOUL 2.0 and focused on its operational aspects covering to various modules. He also spoke about e-resources available through N-LIST Programme and its benefits to the colleges.



Shri H G Hosamani, Scientist B (LS), INFLIBNET Centre Lighting the Traditional Lamp During the Inauguration of the Workshop at North Maharashtra University, Jalgaon

IN

Corrigendum

INFLIBNET Newsletter, Vol. 17, No.4 published an article on "National Research Productivity in Library and Information Science" by Shri Rajesh Chandrakar and Dr. Jagdish Arora. The following reference is missing in the article:

Chandrakar, Rajesh & Arora, Jagdish. 2009. Automation of library in India: past, present and future. [Feature article]. Information Standards Quarterly (ISQ), 21(4), Fall 2009. pp. 11-15.

Besides, in the article, table 2 lists out top 29 institutions who made its presence in the Web of Science database with at least 4 articles has 10 library schools instead of 8. Further, in the table 3 on top 22 library science schools with at least two articles indexed in the Web of Science Database, where "place" for the Aligarh Muslim University is mentioned as Delhi may be read as Aligarh, Uttar Pradesh. **IN**

लाइब्रेरी में पुस्तक है या नहीं

विधि केन्द्रीय पुस्तकालय में स्वर्ण जयंती विंग का उद्घाटन

नगर संचालक | अजय

छात्र अब इंटरनेट पर ही कॉलेज की लाइब्रेरी में उपलब्ध विषयों की पुस्तकों की जानकारी ले सकेंगे। सूक्ष्मि में केन्द्रीय पुस्तकालय के नवनिर्मित विस्तार कक्ष स्वर्ण जयंती विंग का बुधवार को कुलपति प्रो. आई.बी. त्रिवेदी ने उद्घाटन किया।

कुलपति प्रो. त्रिवेदी ने बताया कि केन्द्रीय पुस्तकालय को एडवॉन्स तकनीक से जोड़ने के बाद छात्र इस सुविधा का लाभ ले सकेंगे। सफाईक महाविद्यालयों के छात्रों को अब पुस्तकालय में उनके विषयों की पुस्तकें प्राप्त करने के लिए भटकना नहीं

पड़ेगा। किसी भी तरह इंटरनेट पर ही छात्रों को कॉलेज लाइब्रेरी में उनके द्वारा खोजी गई पुस्तक है या नहीं, किसी और को इस पर है तो कब जमा लेगी, आदि की जानकारी मिल सकेगी। उन्होंने कहा कि आने वाले समय में पुस्तकालय में संकायों को और अधिक आधुनिक करने के प्रयास किए जा रहे हैं। कुलपति ने नवनिर्मित कक्ष में पुस्तक स्वचालन पर पांच दिवसीय क्षेत्रीय प्रशिक्षण कार्यक्रम का शुभारंभ किया।

इस अवसर पर पीजी डीन प्रो. वेणुगोपालन, प्रो. एल.एन. वर्मा ने शिक्षकों से इस नई तकनीक के प्रति छात्रों में जागरूकता लाने का आग्रह किया। पुस्तकालय प्रभारी प्रो. ए.के. गोस्वामी ने पुस्तकालय में संचालित नई तकनीकों की जानकारी दी। कार्यक्रम में ली कॉलेज डीन प्रो. शरद श्रीवास्तव, जर्मन कॉलेज डीन प्रो. दरिद्रच सिंह चुंदावत, छात्र



केन्द्रीय पुस्तकालय स्वर्ण जयंती विंग के उद्घाटन समारोह को संबोधित करते कुलपति प्रो. आई.बी. त्रिवेदी।

कल्याण अग्रवाल, प्रो. विनयलक्ष्मी चौधन, प्रो. फरीद शाह, प्रो. एल.सी. खत्री, डॉ. रेणु जटाना, डॉ. पीके सिंह, डॉ. आरएस चौहान, डॉ. जीएस राठीड़ आदि मौजूद थे।

टेक्नोलॉजी के साथ अपडेट रहना आवश्यक : प्रो. शर्मा

उद्योग, साइंस कॉलेज डीन प्रो. मणुसुजन शर्मा ने कहा कि लाइब्रेरी में नई टेक्नोलॉजी आने के बाद अपडेट रहना जरूरी हो गया है। प्रो. शर्मा ने यह बात सुविधि में केन्द्रीय पुस्तकालय में पांच दिवसीय पुस्तकालय स्वचालन पर आयोजित क्षेत्रीय कार्यक्रम के समापन समारोह में कही। मुख्य अतिथि प्रो. शर्मा ने परिभाषायों को यूसीसी के साथ सॉफ्टवेयर की महत्ता व रिसेट जर्नल के बारे में भी जानकारी दी। कार्यक्रम में शिक्षक अतिथि प्रो. एल.एन. वर्मा थे। इस अवसर पर वैज्ञानिक वर्तमान पर देश की विचार

सेवाएं आधुनिक करने को तत्पर पुस्तकालय

केन्द्रीय पुस्तकालय में स्वर्ण जयंती विंग का उद्घाटन

यूजी के छात्रों में जमा की पुस्तकों को इस सुविधि तक ले जाकर शिक्षक जानकारी दे देंगे। इसी सुविधा को अपडेट करने के लिए पुस्तकालय में नई तकनीक का उपयोग किया जा रहा है। पुस्तकालय में नई तकनीक का उपयोग करने के लिए पुस्तकालय में नई तकनीक का उपयोग किया जा रहा है। पुस्तकालय में नई तकनीक का उपयोग करने के लिए पुस्तकालय में नई तकनीक का उपयोग किया जा रहा है।

ऑनलाइन किताबों की ली जानकारी

स्वर्ण जयंती विंग का उद्घाटन

जस्ट रिपोर्टर

ई-लर्निंग से जोड़ने के लिए बुधवार को सुखाड़िया विश्वविद्यालय के कर्मचारियों का प्रशिक्षण शुरू हुआ। सुखाड़िया विश्वविद्यालय के केन्द्रीय पुस्तकालय में पांच दिवसीय क्षेत्रीय प्रशिक्षण शुरू हुआ। प्रशिक्षण का उद्घाटन कुलपति प्रो. आई.बी. त्रिवेदी ने किया। इस

मौके पर पुस्तकालय में स्वर्ण जयंती विंग का उद्घाटन भी किया गया। उन्होंने भी आई.बी. त्रिवेदी ने कहा कि पुस्तकालय में तकनीकों के प्रयोग से ही पुस्तकालय की फायदा हुआ है। कार्यक्रम में पुस्तक प्रभारी अधिकारी प्रो. ए.के. गोस्वामी, पुस्तकालय में तकनीक के उपयोग के लिए जानकारी दी। परिभाषायों का शुभारंभ प्रो. वेणुगोपालन ने बताया कि पुस्तकालय को लाइव करने के लिए पुस्तकालय में नई तकनीक का उपयोग किया जा रहा है। पुस्तकालय में नई तकनीक का उपयोग करने के लिए पुस्तकालय में नई तकनीक का उपयोग किया जा रहा है।

अत्याधुनिक लाइब्रेरी का आरंभ

सिटी रिपोर्टर एमपी की कॉलेज में चल रही लाइब्रेरी ऑटोमेशन कार्यशाला शुक्रवार को सम्पन्न हो गई। पांच दिनों में प्रदेशभर से आए लाइब्रेरियन ने डिजिटल लाइब्रेरी के बारे में जानकारी हासिल की। कार्यक्रम का शुभारंभ करते हुए गृहमंत्री उमाशंकर गुप्ता ने कहा कि इस प्रशिक्षण से लाइब्रेरी की सेवाओं को अत्याधुनिक बनाया जा सकता है। इसका सीधा लाभ शिक्षक व विद्यार्थी को होगा। यहां संस्थान के प्राचार्य डॉ. यूसी जैन, कार्यक्रम सचिव राकेश खरे एवं अन्य स्टाफ उपस्थित रहा।

लाइब्रेरी ऑटोमेशन

सिटी रिपोर्टर शासकीय महारानी लक्ष्मीबाई कॉलेज में 10 से 14 जनवरी तक रीजनल ट्रेनिंग प्रोग्राम ऑफ लाइब्रेरी ऑटोमेशन आयोजित किया जा रहा है। उच्च शिक्षा अनुदान आयोग की स्वशासी संस्था सूचना एवं पुस्तकालय नेटवर्क केन्द्र अहमदाबाद यह आयोजन कर रही है। इसमें प्रदेश के 70 पुस्तकालयाध्यक्ष शामिल होंगे। कार्यक्रम के दौरान पुस्तकालय ऑटोमेशन सॉफ्टवेयर एसओयूएल-2.0 पर कार्य करने संबंधी जानकारी दी जाएगी। इसी दौरान 11 से 13 जनवरी तक प्रतिदिन शाम 4 से 5 बजे तक इस सॉफ्टवेयर संबंधी समस्याओं का समाधान किया जाएगा। कार्यक्रम के मुख्य अतिथि विधायक विश्राम सारंग होंगे। अध्यक्षता महापौर कृष्णा गौर करेगी। इस अवसर पर उच्च शिक्षा क्षेत्रीय अतिरिक्त संचालक डॉ. सुधा बैस, महाविद्यालय की जनभागीदारी समिति की अध्यक्ष पूर्णिमा दाते और प्राचार्य डॉ. यूसी जैन विशेषरूप से उपस्थित रहेंगे।

लाइब्रेरियन को मिलेगा सॉफ्टवेयर प्रशिक्षण

महाराष्ट्र के लाइब्रेरी के लगभग 50-60 लाइब्रेरियन को सॉफ्टवेयर के प्रशिक्षण का प्रशिक्षण मिलेगा। इस प्रशिक्षण का आयोजन अहमदाबाद में किया जा रहा है। इस प्रशिक्षण में लाइब्रेरियन को सॉफ्टवेयर के प्रयोग के बारे में जानकारी दी जाएगी। इस प्रशिक्षण का आयोजन अहमदाबाद में किया जा रहा है। इस प्रशिक्षण में लाइब्रेरियन को सॉफ्टवेयर के प्रयोग के बारे में जानकारी दी जाएगी। इस प्रशिक्षण का आयोजन अहमदाबाद में किया जा रहा है। इस प्रशिक्षण में लाइब्रेरियन को सॉफ्टवेयर के प्रयोग के बारे में जानकारी दी जाएगी।

पुस्तकालय अध्यक्षों का प्रशिक्षण शिविर

पुस्तकालय अध्यक्षों का प्रशिक्षण शिविर का आयोजन किया जा रहा है। इस शिविर में पुस्तकालय अध्यक्षों को सॉफ्टवेयर के प्रयोग के बारे में जानकारी दी जाएगी। इस शिविर का आयोजन अहमदाबाद में किया जा रहा है। इस शिविर में पुस्तकालय अध्यक्षों को सॉफ्टवेयर के प्रयोग के बारे में जानकारी दी जाएगी। इस शिविर का आयोजन अहमदाबाद में किया जा रहा है। इस शिविर में पुस्तकालय अध्यक्षों को सॉफ्टवेयर के प्रयोग के बारे में जानकारी दी जाएगी।

यह वक्त की मांग है

यह वक्त की मांग है। पुस्तकालय में नई तकनीक का उपयोग करने के लिए पुस्तकालय में नई तकनीक का उपयोग किया जा रहा है। पुस्तकालय में नई तकनीक का उपयोग करने के लिए पुस्तकालय में नई तकनीक का उपयोग किया जा रहा है। पुस्तकालय में नई तकनीक का उपयोग करने के लिए पुस्तकालय में नई तकनीक का उपयोग किया जा रहा है।

पुस्तकालय विज्ञान के जनक को याद किया

पुस्तकालय विज्ञान के जनक को याद किया। पुस्तकालय में नई तकनीक का उपयोग करने के लिए पुस्तकालय में नई तकनीक का उपयोग किया जा रहा है। पुस्तकालय में नई तकनीक का उपयोग करने के लिए पुस्तकालय में नई तकनीक का उपयोग किया जा रहा है। पुस्तकालय में नई तकनीक का उपयोग करने के लिए पुस्तकालय में नई तकनीक का उपयोग किया जा रहा है।

लाइब्रेरी ऑटोमेशन पर प्रशिक्षण

लाइब्रेरी ऑटोमेशन पर प्रशिक्षण का आयोजन किया जा रहा है। इस प्रशिक्षण में लाइब्रेरी ऑटोमेशन के प्रयोग के बारे में जानकारी दी जाएगी। इस प्रशिक्षण का आयोजन अहमदाबाद में किया जा रहा है। इस प्रशिक्षण में लाइब्रेरी ऑटोमेशन के प्रयोग के बारे में जानकारी दी जाएगी।

अनुदान आयोग की स्वशासी संस्था सूचना एवं पुस्तकालय नेटवर्क केन्द्र अहमदाबाद

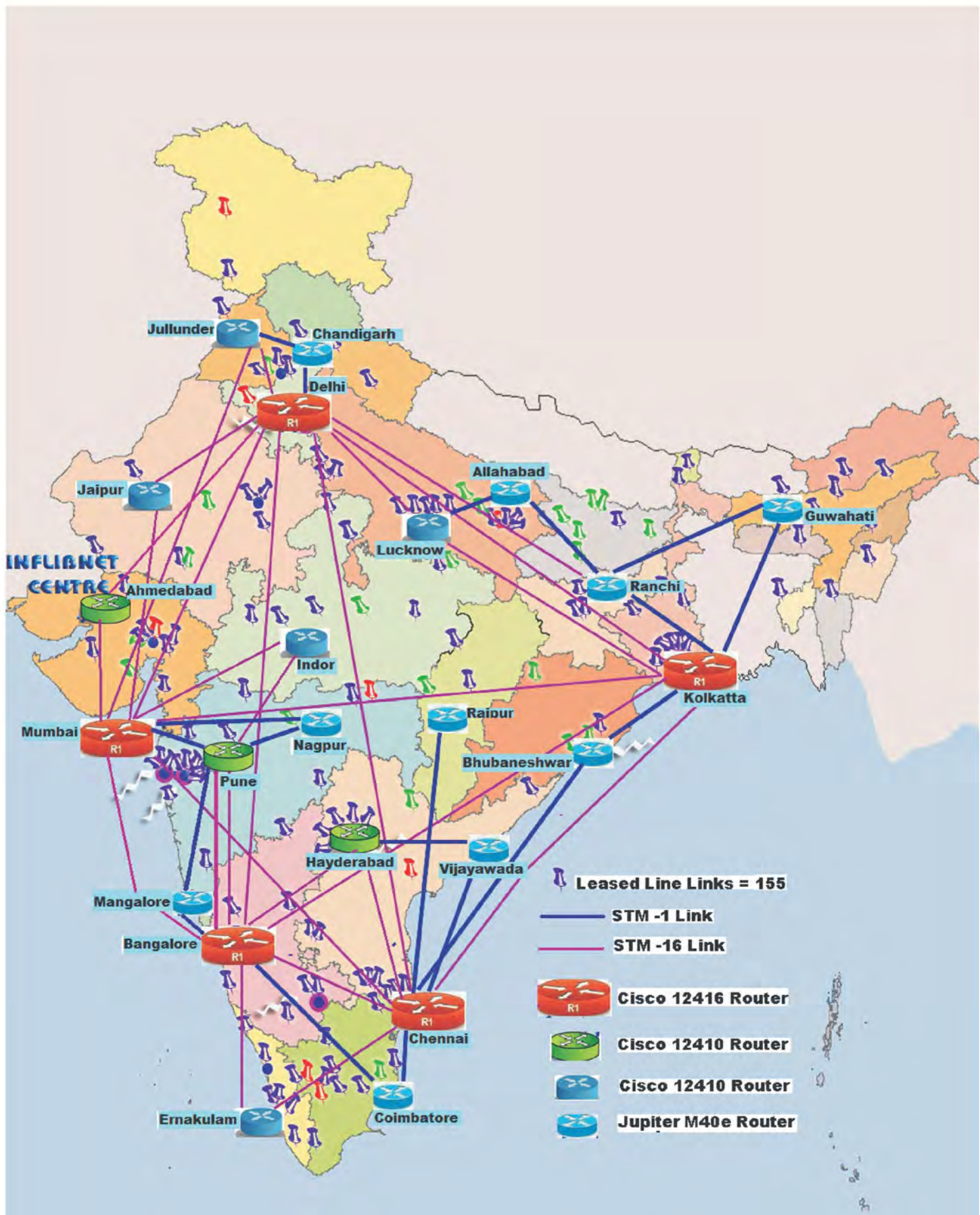
अनुदान आयोग की स्वशासी संस्था सूचना एवं पुस्तकालय नेटवर्क केन्द्र अहमदाबाद में लाइब्रेरी ऑटोमेशन पर प्रशिक्षण का आयोजन किया जा रहा है। इस प्रशिक्षण में लाइब्रेरी ऑटोमेशन के प्रयोग के बारे में जानकारी दी जाएगी। इस प्रशिक्षण का आयोजन अहमदाबाद में किया जा रहा है। इस प्रशिक्षण में लाइब्रेरी ऑटोमेशन के प्रयोग के बारे में जानकारी दी जाएगी।

स्वर्ण जयंती विंग का उद्घाटन

स्वर्ण जयंती विंग का उद्घाटन किया जा रहा है। इस उद्घाटन में पुस्तकालय में नई तकनीक का उपयोग करने के लिए पुस्तकालय में नई तकनीक का उपयोग किया जा रहा है।

अपने वाले समय में यह पुस्तकालय उद्घाटन में

अपने वाले समय में यह पुस्तकालय उद्घाटन में शामिल किया जा रहा है। इस उद्घाटन में पुस्तकालय में नई तकनीक का उपयोग करने के लिए पुस्तकालय में नई तकनीक का उपयोग किया जा रहा है।



Proposed Architecture for UGC Infonet 2.0



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