

Design and Development of Digital Library : an initiative at TISS

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Abstract :

Digital Libraries are the systems providing users the organised information access to repository of information and services at knowledge base. Ultimately, it is the demand for high quality content and ease of access and use that will drive the initiation and development of digital libraries. The major objectives and principles of digital library have been narrated with applied knowledge system at TISS library. The functional components of the Digital Library have been presented as a model for the information services of the library. The digitisation activities and procedures are also discussed here.

Introduction

Libraries form a vital part of the world's systems of education and information storage and retrieval. They make available- through books, films, recordings, and other media- Knowledge that has been accumulated through the ages. People in all walks of life- including students, teachers, business executives, government officials, scholars, and scientists- use library resources for their research. Large number of people also turn to library to satisfy a desire for knowledge or to obtain material for some kind of leisure-time activity. In addition, many people enjoy book discussions, and other activities that are provided by their Libraries.

The Library of the future will be less a place where information is kept on a portal through which students and faculty will access the vast information resources of the world. The Library of the future will be about access and knowledge-management, not about ownership. The main products of the library and information professionals in the 21st century will be introduction of the digital Libraries and the archives.

Design And Development Of Digital Library

David Stern



Design And Development Of Digital Library:

Handbook of Research on Digital Libraries: Design, Development, and Impact Theng, Yin-Leng, Foo, Schubert, Goh, Dion, Na, Jin-Cheon, 2009-02-28 This book is an in depth collection aimed at developers and scholars of research articles from the expanding field of digital libraries Provided by publisher *Encyclopaedia Of Research On Digital Libraries: Design And Development Volume 3 (Digital Library And Information Development)* Sumangala Jha, 2013 **Encyclopaedia Of Research On Digital Libraries: Design And Development Volume 1 (Digital Library Resources)** Sumangala Jha, 2013

Digital Libraries David Stern, 2014-05-22 An unparalleled overview of current design considerations for your digital library Digital Libraries Philosophies Technical Design Considerations and Example Scenarios is a balanced overview of public services collection development administration and systems support for digital libraries with advice on adopting the latest technologies that appear on the scene As a professional in the library and information science field you will benefit from this special issue that serves as an overview of selected directions trends possibilities limitations enhancements design principals and ongoing projects for integrated library and information systems In Digital Libraries you will discover the latest ideas and research on digitizing and distributing online library material including information on organization and administration of new digital library facilities collection development in digital libraries technological infrastructures for seamlessly integrated computer databases over the Internet XML and other new standards for displaying data on the web interface design issues in the search environment object oriented interfaces and improved searching possibilities a brief history of patents on the internet Digital Libraries is a working reference for your digital library specific problems Split into three related sections Philosophies Technical Design Considerations and Example Scenarios Digital Libraries addresses the many complexities and new issues that have evolved with the development of digital libraries and their future technologies You will gain a thorough understanding of the public service and design considerations that are necessary to take your digital library into the 21st century Discover Digital Libraries Iris Xie, Krystyna Matusiak, 2016-07-26 Discover Digital Libraries Theory and Practice is a book that integrates both research and practice concerning digital library development use preservation and evaluation The combination of current research and practical guidelines is a unique strength of this book The authors bring in depth expertise on different digital library issues and synthesize theoretical and practical perspectives relevant to researchers practitioners and students The book presents a comprehensive overview of the different approaches and tools for digital library development including discussions of the social and legal issues associated with digital libraries Readers will find current research and the best practices of digital libraries providing both US and international perspectives on the development of digital libraries and their components including collection digitization metadata interface design sustainability preservation retrieval and evaluation of digital libraries Offers an overview of digital libraries and the conceptual and practical understanding of digital libraries Presents the lifecycle of digital library design use preservation and

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Design, Development, and Management of Resources for Digital Library Services Ashraf, Tariq, Gulati, Puja Anand, 2012-11-30 This book offers a global perspective on the development and design of a digital library and highlights its benefits over a traditional library Provided by publisher

Design and Development of Digital Library Shilpa Waghchoure, Hindurao Waydande, 2014-10-13 In the era of Internet the initiative of digital library is to facilitate the access to electronic information to ensure that the information needs of user community are met regardless of their location It enables libraries to deliver valuable information that already exists within library walls electronically to the users outside those walls to create new digital resources locally and to integrate local digital resources with remote ones the book will be helpful to the professionals and researchers in the LIS fields

Design, Architecture and Development of Digital Library Venkatarama Reddy C. S., 2011-12 Digital Library is emerging as a trend in the present era the information society of today suffers not from the lack but from a surplus of information Distinguishing relevant information from non relevant information is one of the main tasks of Librarians The development of information technology in the field of digital libraries has attracted many research efforts during the last years Many interesting projects have been started dealing with the various open issues arising in this field addressing the challenges such as metadata selection preservation technology obsolescence and copyright issues etc

Design, Development, and Management of Resources for Digital Library Services Tariq Ashraf, 2013 This book offers a global perspective on the development and design of a digital library and highlights its benefits over a traditional library Provided by publisher

Design and Usability of Digital Libraries Yin-Leng Theng, Schubert Foo, 2005 Particularly recommended for those who are interested in cross cultural and cross lingual digital library research and development this volume covers an important area of digital library research with 20 chapters contributed by academics and researchers from around the globe

Digital Libraries Kuo Hung Huang, 2011-04-04 Digital library is commonly seen as a type of information retrieval system which stores and accesses digital content remotely via computer networks However the vision of digital libraries is not limited to technology or management but user experience This book is an attempt to share the practical experiences of solutions to the operation of digital libraries To indicate interdisciplinary routes towards successful applications the chapters in this book explore the implication of digital libraries from the perspectives of design operation

and promotion Without common agreement on a broadly accepted model of digital libraries authors from diverse fields seek to develop theories and empirical investigations that to advance our understanding of digital libraries

Digital Library

Development Deanna B. Marcum, Gerald George, 2006 An international cadre of leading thinkers and experimenters provide their considered opinions concerning the influence of digital technology on teaching and learning in general and the role of the library in the educational enterprise in particular Topic treatments include envisioning the future facing major challenges creating projects and programs and developing digital libraries A must read for anyone involved in higher education The Kanazawa Institute of Technology is Japan's largest institution of higher education specializing in engineering and technology It is a world leader and collaborator in electronic initiatives often on the forefront of systems design and telecommunications advancement It is also the site of an annual symposium series on digital library development Marcum and George have pulled together an international cadre of leading thinkers and experimenters all of whom have participated in these symposia to provide their considered opinions concerning the influence of digital technology on teaching and learning in general and the role of the library in the educational enterprise in particular Their contributions have in turn been arranged into four thematic groupings which range from envisioning the future and facing major challenges to creating projects and programs and developing digital libraries An informative read for anyone involved in higher education

Development of a Digital

Library based on Cloud Computing Model Chimdi Walter Ndubuisi, 2019-01-18 Research Paper undergraduate from the year 2016 in the subject Business economics Information Management course Communication Engineering language English abstract Over the years there has been the need to improve the level of services provided by traditional libraries in the areas of resource accessibility and management This is in a bid to address the challenges and inconveniences in accessing and managing the library resources A viable means of achieving this purpose is by deployment of digital libraries In this project a digital library prototype based on cloud computing will be developed to demonstrate the viability of deploying and running cloud based digital libraries in Nigerian higher institutions to curb the challenges encountered in accessing resources in traditional libraries by providing ubiquitous access to library resources Developing the digital library will comprise of two design phases viz developing the library website and designing a local intranet on which the website will be hosted The website will be developed using web scripting and programming languages such as Hypertext Mark Up Language HTML JavaScript and Hypertext Pre Processor PHP etc while the local intranet is a network of computers and other Wi-Fi enabled digital devices and a wireless access point The network will be configured and the digital library website hosted on a dedicated server which provides services to the user devices through the access point At the end of this project a prototype of cloud based digital library will be developed On the library website users can perform basic operations such as registering with the library and viewing the content of materials in the library collections While the library administrator performs functions of book uploads and user authentication This project though demonstrated as a prototype shows that deploying

cloud based digital libraries in Nigerian higher institution will curb the challenges associated with traditional libraries

Digital Library Use Ann Peterson-Kemp, Nancy A. Van House, Barbara P. Battenfield, 2003-10-10 Viewing digital libraries as sociotechnical systems networks of people and technology interacting with society The contributors to this volume view digital libraries DLs from a social as well as technological perspective They see DLs as sociotechnical systems networks of technology information artifacts and people and practices interacting with the larger world of work and society As Bruce Schatz observes in his foreword for a digital library to be useful the users the documents and the information system must be in harmony The contributors begin by asking how we evaluate DLs how we can understand them in order to build better DLs but they move beyond these basic concerns to explore how DLs make a difference in people s lives and their social worlds and what studying DLs might tell us about information knowledge and social and cognitive processes The chapters using both empirical and analytical methods examine the social impact of DLs and also the web of social and material relations in which DLs are embedded these far ranging social worlds include such disparate groups as community activists environmental researchers middle school children and computer system designers Topics Documents and society the real boundaries of a library without walls the ecologies of digital libraries usability and evaluation information and institutional change transparency as a product of the convergence of social practices and information artifacts and collaborative knowledge construction in digital libraries

User Studies for Digital Library Development Milena Dobрева, Andy O'Dwyer, Pierluigi Feliciati, 2012-06-22 This landmark text captures a global cross section of leading voices and provides a clear and coherent overview of the user studies domain and user issues in digital libraries As the information environment becomes increasingly electronic digital libraries have proliferated but the focus has often been on innovations in technology and not the user Although user needs have become a popular concept in practice the users are rarely consulted in the development of services Research and analysis of users is essential to fine tune the content and approach of digital libraries to the diverging requirements and expectations of incredibly varied communities and to ensure libraries are effective accessible and sustainable in the long term Key topics include what is the place of user studies in digital libraries and what are the basic user study methods explaining user centric studies information behaviour and user experience studies exploring user study methods such as surveys questionnaires expert evaluation methods eye tracking deep log analysis personae and ethnographic studies critical issues around user studies such as evaluation of digital libraries digital preservation social media the shift to mobile devices and ethics user studies in specific types of institutions libraries archives museums audiovisual collections and art collections the most popular questions and what to do next Readership Information professionals involved in supporting developing or designing digital library services researchers wanting to address the user dimension in their work and students on LIS and computer science courses who want to understand the importance of the user in information services

Interactive Information Retrieval in Digital Environments Xie, Iris, 2008-04-30 This book

includes the integration of existing frameworks on user oriented information retrieval systems across multiple disciplines the comprehensive review of empirical studies of interactive information retrieval systems for different types of users tasks and subtasks and the discussion of how to evaluate interactive information retrieval systems Provided by publisher

Developing In-House Digital Tools in Library Spaces Laura Costello, Meredith Powers, 2017-06-23 Presents the latest empirical research on organisational issues examples of library automation case studies of developing library products and assessment of the impact and usefulness of in house technologies This volume features coverage of a broad range of topics such as linked data mobile applications and web analytics Design, Development and Management of Resources for Digital Library Pramod Kumar Singh, 2017-11 In this book changes in the collection of funds and attendance of libraries under the influence of the growing popularity of electronic resources in comparison with paper libraries are considered Methods of increasing the efficiency of using licensed databases improving electronic catalogs and websites of libraries are discussed A brief review of metadata formats describing electronic resources and collections logical structures of electronic publications as well as standards for data collection and exchange was made A range of new responsibilities for librarians responsible for electronic resources is described Changes in the field of library education are considered Problems of preservation of electronic resources their influence on schoolchildren students and in general on libraries are discussed Over the last ten to fifteen years a new generation of readers has grown up in Western and northeastern European countries especially in the US and Russia who prefer electronic editions to paper Accordingly libraries increasingly redistribute funds in favor of electronic publications to the detriment of paper publications The American Association of Scientific Libraries having conducted a study among more than 100 of its members found that over the last decade the annual average library spending on electronic resources increased by 400% to approximately 1.5 million in 2002 At the same time the total budget for the acquisition of library funds in the same period grew by only 61% Libraries as a rule primarily cancel paper subscriptions to publications in the field of humanities and social and political sciences and subscriptions to scientific and technical publications are canceled to a lesser extent The advantages of using electronic publications are well known to librarians and they are actively replenishing their collections A large university library today can offer students faculty and researchers up to 25 000 electronic periodicals in licensed databases and up to 200 000 e books and more In addition to paid electronic resources the easy to use Internet search engines Google for example and websites provide serious competition to traditional library collections Recognizing the fact that more and more readers use the Internet to access information libraries themselves have actively engaged in the creation of electronic collections by digitizing their own funds and building electronic libraries Collections of materials for digitization digitization technologies and methods of building electronic libraries contribute to the birth of new information resources It significantly increases the effectiveness of education and research allows creating unique collections of previously disparate documents However it can also be found in different libraries and archives

including foreign ones can detect unknown collections by combining electronic descriptions of materials on a specific subject from different storages that simply did not know about the existence of the respective collections from each other The growing popularity of electronic resources and the use of the Internet as an information source has led to a decrease in library attendance and a reduction in the number of references and bibliographic services For example at the University of Idaho the number of library visitors has decreased by more than 20% since 1997 while the use of articles in electronic form has grown by 350% since 1999 In these conditions public and university libraries try to attract readers back to their premises creating comfortable conditions for reading and working with computers allocating rooms for recreation and meetings and provide on site cafeterias Competing with free search engines and sites on the Internet many of which contain information of questionable quality libraries have improved their own electronic catalogs and websites and provide readers with access to better paid electronic resources The same licensed databases allow readers to use remotely the Internet using the personal passwords and proxy server of the library

Remote Access Technologies for Library Collections: Tools for Library Users and Managers Fulkerson, Diane M., 2012-03-31 This book is crucial to understanding changes and the new expectations that library users have in the 21st century including identifying implementing and updating new technologies understanding copyright and fair use laws creating metadata for access to digital collections and meeting user needs Provided by publisher

Design, Development, and Management of Resources for Digital Library Fiona Mathis, 2018

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