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Wireframe Documentation: LIB-ARCH: A Manuscript Archiving with Comprehensive Learning for DHVSU Lubao Campus

In Partial Fulfillment
of the Requirements for the Course of
Human Computer Interaction and SIA

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Abstract

Large amounts of information given as electronic, printed, or paper-based data present a difficulty for educational institutions nowadays. In order to organize and store all of the information that has been gathered and used at universities and colleges, digital archival and data management systems have recently replaced traditional archives used for the deposit of printed documents. Information management systems are used in educational institutions since designing, gathering, storing, classifying, and expanding data handled by organizations for their everyday operations is essential.

Introduction and Discussions

The archives serve as a storehouse for institutional memory, holding crucial knowledge about the universities research and all of its initiatives and advancements of technology. Manuscript accessibility and preservation are essential in the digital age for academic research growth and history preservation. The traditional focus of manuscript archiving was on physical preservation, but it is currently changing to include comprehensive learning strategies. The current manual record-based system of research archiving in the DHVSU Lubao campus faces problems like storage issues, lengthy search times for related theses, human errors, and time constraints. The desired outcomes of the project include efficient preservation of manuscripts through digitization and archiving processes, improved accessibility to manuscript collections for researchers, students, and teachers, supporting student research projects and fostering critical thinking skills through engagement with academic documents, and promoting long-term preservation strategies to ensure the sustainability of digitized manuscripts.



Motivation and Context

Traditional document keeping, were simply place to save all the files and documents. The situation of manuscript archiving presents problems due to several problems of some papers. In an increasingly digital age, the preservation and accessibility of manuscripts have become paramount for institutions, researchers, creating a strong system to archive manuscripts is needed to make sure these valuable documents last a long time, are easy to access, and are kept safe. This document explains why we need a manuscript archiving system and describes its importance and benefits. Manuscript archiving helps student while providing useful data. As new methods and educational technologies are explored and used, this manuscript archiving helps the needs of modern learning environments.

Related Work

There are so many related works that is related or synonymous to the paper that is about to be reviewed. Among these are the following published papers: (1) Mobile Library Resources Application (MoLiRA) by Rivera (2021). (2) Electronic Document Archiving System (EDAS) by Cuevas & Casauay (2022). (3) Students Reasearch Archiving System(SMCBI) by Del Rosario, E. & Bisquera J. M., (2023) These published studies were recommended well and being used as reference respectively by the succeeding researchers.



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Overview of Modelling Method

Archiving

Archiving refers to the systematic process of storing manuscripts or documents in a digital or physical repository for long-term preservation and access. Key steps in the archiving process include the collection of manuscripts including research papers from various sources, such as authors, publishers, or research collections. Next, cataloging involves assigning metadata to each research paper, including title, author, date of publication, and other relevant information, which aids in the organization and future retrieval of the documents. Storage ensures that documents are kept securely and organized, using databases and secure servers for digital archives. Preservation includes measures to protect the manuscripts from degradation, such as regular backups for digital files.

Searching

Searching is the process of locating specific manuscripts or sets of manuscripts within the archive based on various criteria. This process involves providing users with a user-friendly search interface to input their queries. Indexing is crucial as it creates an index of the archived manuscripts using their metadata, allowing for quick and efficient search operations. Query processing interprets the user's search query and matches it against the indexed metadata to find relevant manuscripts, while search algorithms rank the search



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results based on relevance, using techniques such as keyword matching, boolean search, or natural language processing.

Retrieving

Retrieving is the process of accessing and obtaining the specific manuscripts identified through the search process. This involves ensuring access control, where users must have the necessary permissions to retrieve the requested manuscripts. Data delivery provides the requested manuscripts to the user in the desired format, such as downloading a PDF or viewing the document online for digital archives.

Tool Support

These are the tools that support the LIB-ARCH: A Manuscript Archiving with Comprehensive Learning for DHVSU Lubao Campus.

PHP

PHP code is usually processed on a web server by a PHP interpreter implemented as a module. Additionally, PHP can be used for many programming tasks outside the web context, such as standalone graphical applications and drone control. PHP code can also be directly executed from the command line.



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MySQL

MySQL is an open-source, Relational Database Management System that stores data in a structured format using rows and columns. It's software that enables users to create, manage, and manipulate databases.

Firebase

Firebase is a set of backend cloud computing services and application development platforms provided by Google. It hosts databases, services, authentication, and integration for a variety of applications, including Android, iOS, JavaScript, Node.js, Java, Unity, PHP, and C++.

Laravel

Laravel is a free and open-source PHP- based web framework for building high-end web applications. Some of the features of Laravel include modular packaging system with a dedicated dependency manager, different ways for accessing relational databases, utilities that aid in application deployment and maintenance, and its orientation toward syntactic sugar.



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Tailwind

Tailwind is a CSS framework that uses low-level utility classes to create UIs. Tailwind CSS is known as the utility-first framework. It allows users to style HTML webpages even without creating a CSS file and leaving HTML file. All CSS properties can be written as a utility class using Tailwind CSS.

Industrial Case Study and Lesson Learned

Application Integrity

Ensuring the integrity of digital archives is crucial for the preservation of manuscripts. This case study looks at how a manuscript archiving system was used in an industry setting and what was learned about maintaining the integrity of archived materials. It focuses on a digitization project by a major university library to save its historical manuscripts. Ensuring detailed metadata creation, implementing strong security measures, conducting regular quality checks, and planning for scalability are key factors in achieving a reliable and effective digital archiving system.

Decomposition

By decomposing the manuscript archiving system into these components, institutions can better manage the complexities of implementation and ensure all aspects are properly addressed for a successful and reliable system. A manuscript archiving system is a complex structure designed to store, manage, and retrieve documents efficiently.



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File System Integrity

Ensuring the file system integrity of a manuscript archiving system is critical to guarantee that the archived documents are stored securely, accurately, and remain accessible over time. Maintaining the file system integrity of a manuscript archiving system involves a comprehensive approach that includes technical measures, administrative controls, and physical security. By implementing these strategies, organizations can ensure the long-term reliability, security, and accessibility of their archived documents.

Efficiency

Manuscript archiving are created using a API. Maintaining the file system integrity of a manuscript archiving system involves a comprehensive approach that includes technical measures, administrative controls, and physical security. By implementing these strategies, organizations can ensure the long-term reliability, security, and accessibility of their archived documents. Efficiency in a manuscript archiving system can be achieved through a combination of optimized storage solutions, automated processes, and user-friendly interfaces. Regular maintenance and performance monitoring are also crucial to ensure the system runs smoothly and can handle the growing volume of data effectively. By implementing these strategies, organizations can ensure that their manuscript archiving system operates efficiently, providing reliable and quick access to archived documents.



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Highlights

Title and Content

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Enhanced Access - By digitizing manuscripts or research papers, the system makes them accessible to a wider audience, including remote researchers and students who otherwise might not have physical access to the archives. The system includes advanced search capabilities, allowing users to quickly locate specific documents or information within large collections. Detailed metadata and indexing improve discoverability, enabling users to find manuscripts based on various criteria such as author, date, subject, or keywords.

Improved Preservation - Digitization reduces the need to handle physical documents, thereby minimizing wear and tear. Digital copies are stored in secure systems, protecting against physical damage, loss, or degradation. The system ensures that digital copies are backed up safeguarding the archives against disasters like fires or floods.

Security - The system implements robust access control measures, ensuring that only authorized personnel can modify or delete documents, thereby preserving the integrity and authenticity of the manuscripts.



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Impact

- Researchers from DHVSU Lubao campus can access archived research papers.
- Ensures that research papers are preserved for future reference.
- Promotes transparency in research by providing access to original manuscripts.
- Improves access to scientific research or capstone projects, fostering public understanding and engagement.
- Facilitates collaboration among researchers by providing easy access to relevant work.

Strengths

A manuscript archiving system offers numerous strengths that enhance both the preservation and accessibility of scholarly work such as research papers. Firstly, it ensures the long-term preservation of manuscripts, protecting them from physical deterioration and loss. This digital preservation is crucial for maintaining the integrity and availability of academic resources over time. Secondly, such systems improve accessibility, allowing researchers to access manuscripts from the university. Additionally, manuscript archiving system include advanced search functionalities, making it easier to locate specific documents or topics, thereby enhancing research efficiency.



Weaknesses

A manuscript archiving system, while essential for preserving academic and literary works, has several weaknesses that can hinder its effectiveness. One significant issue is the potential for data loss or corruption due to hardware failures and software bugs, which can compromise the integrity and accessibility of archived materials. Furthermore, without robust metadata and search functionalities, users may struggle to locate specific manuscripts, reducing the system's overall utility. Finally, privacy and security concerns must be carefully managed to protect sensitive or proprietary information from unauthorized access or misuse.

Conclusions

In conclusion, online manuscript archiving has revolutionized the way academic and research communities share and preserve knowledge. The transition from traditional paper-based systems to digital repositories has facilitated greater accessibility, enhanced collaboration, and ensured the long-term preservation of scholarly works. The benefits of online manuscript archiving extend beyond mere convenience. They include increased visibility for authors, a wider dissemination of knowledge, and improved citation rates.

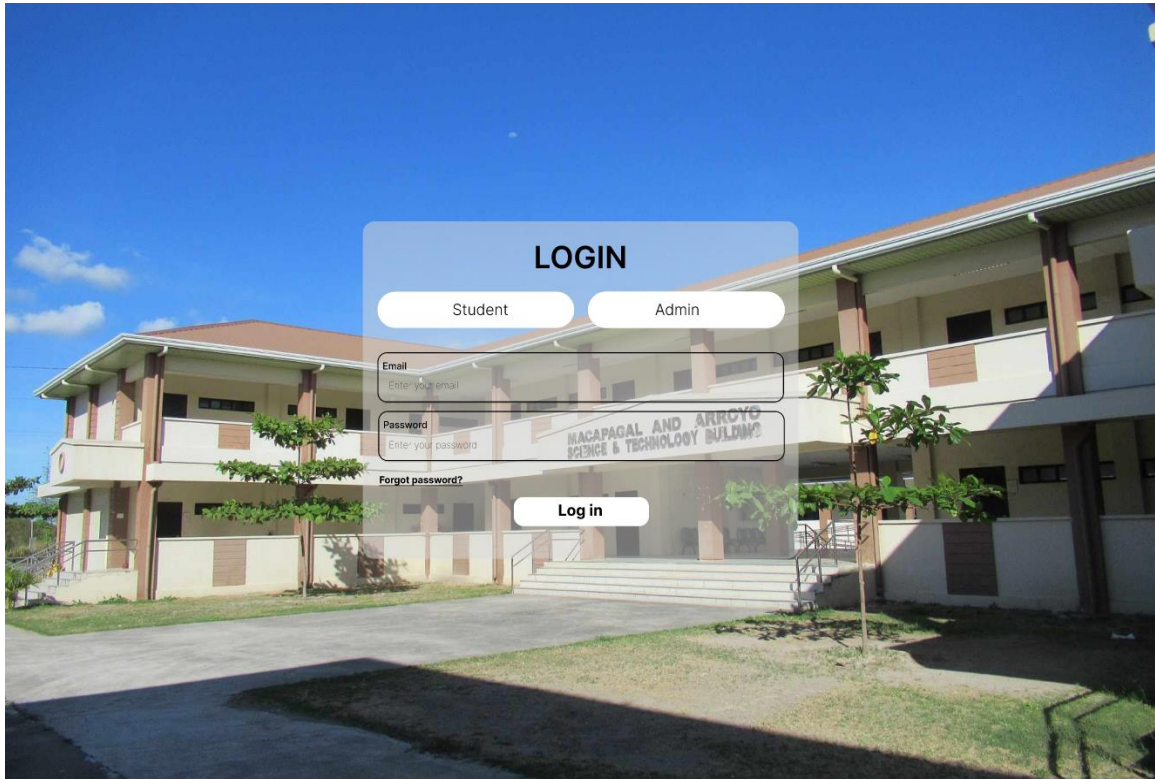


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Storyboard

Landing Page



Login Page

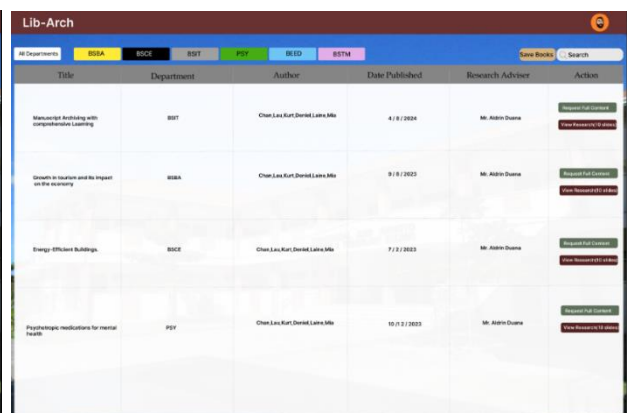
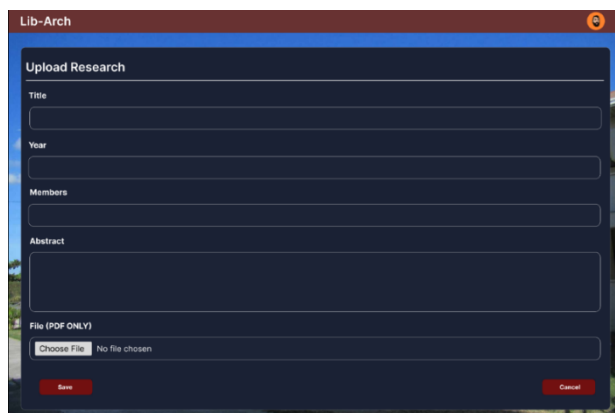
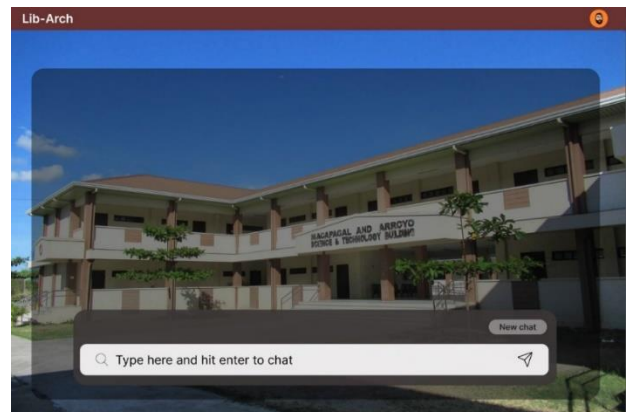
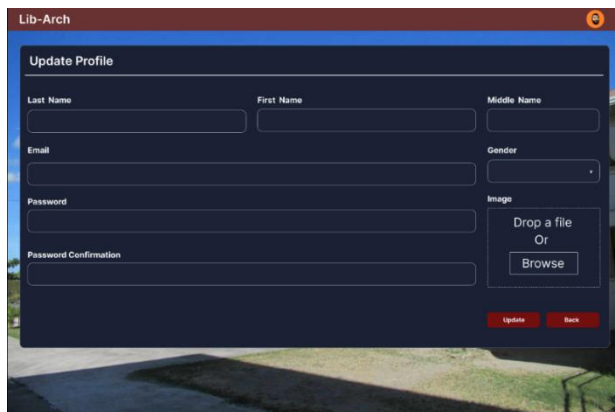




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Student Side





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Lib-Arch

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Student Email

Requested Research Output


Title

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View Research



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Title	Department	File	Action
Manuscript Archiving with comprehensive Learning	BSIT	lib-arch.pdf	✕
The impact of school funding on student's achievement.	BEED	teaching.pdf	✕
Energy Efficient Buildings.	BECE	usut.pdf	✕
smart tourism trends	BSHM	libat.pdf	✕



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Admin Side



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All Departments: BSA, BSCE, BSIT, PSE, BSOD, BSIM

Title	Department	Author	Student Email
Microsight Accounting with Comprehensive Learning	BSIT	Chen, Lian Kurt Daniel Laine, Ma	202324832@dhvsu.edu.ph
Growth in tourism and its impact on the economy	BSBA	Chen, Lian Kurt Daniel Laine, Ma	3445843232@dhvsu.edu.ph
Energy Efficient Buildings	BSCE	Chen, Lian Kurt Daniel Laine, Ma	3445843232@dhvsu.edu.ph
Psychotropic medications for mental health	PSE	Chen, Lian Kurt Daniel Laine, Ma	3445843232@dhvsu.edu.ph

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Title	Department	Author	Date Published	Research Adviser	Action
Microsight Accounting with Comprehensive Learning	BSIT	Chen, Lian Kurt Daniel Laine, Ma	4 / 8 / 2024	Mr. Arden Duane	✖ ✔
Growth in tourism and its impact on the economy	BSBA	Chen, Lian Kurt Daniel Laine, Ma	9 / 8 / 2023	Mr. Arden Duane	✖ ✔
Energy Efficient Buildings	BSCE	Chen, Lian Kurt Daniel Laine, Ma	7 / 2 / 2023	Mr. Arden Duane	✖ ✔
Psychotropic medications for mental health	PSE	Chen, Lian Kurt Daniel Laine, Ma	10 / 2 / 2023	Mr. Arden Duane	✖ ✔

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PSE	PSE	Female	3445843232@dhvsu.edu.ph

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Add Student

Last Name: First Name: Middle Name:

Email: Gender:

Password: Image:

Password Confirmation:

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Update Profile

Last Name: First Name: Middle Name:

Email: Gender:

Password: Image:

Password Confirmation:



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