Private Repository of Bali State Polytechnic Lecturer

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Keywords: Private, Repository, Lecturer, File, Link, Promotion.

Abstract: The development of computer technology now is very much developed from previous years. This development occurs in all areas of life. Like the world of medicine, industry, agriculture and others. Technology also greatly helps various human jobs become easier, faster and more efficient. This computer technology in the form of hardware and software. The software used can be in the form of systems and applications. To run the system and application requires software in the form of file processing in the form of files and when the files become digital documents that will be uploaded to the storage system. Previously there were many problems in terms of making digital file links that were uploaded. For example, when the digital file was used as evidence in terms of promotion of the PNS Lecturer in Bali State Polytechnic. This Private Repository application will help users in creating links to the digital document files. Both the writing of the uniform resource locator and the name of the uploaded file are shorter and easier to find. This application can be coupled with any recording system by providing a link in the form of a button.

1 INTRODUCTION

1.1 Problem Background

Today's technological advances are very rapid and cover all disciplines. Especially in computer technology, the use of computers in everyday life cannot be separated from the lifestyle. Almost every activity or work that is done is greatly helped by the presence of a computer. Advances in technology always aim to help human life become better, more comfortable, or easier. But there are still many people who still don't take advantage of technology, for example, the one closest to our lives, namely digital technology.

Digital technology has been used a lot in various fields, both felt and not felt, as the closest example is song. In the era of the 80s and 90s, listening to music was still using a cassette (cassette tape), whereas now without feeling it is using digital files for songs, namely mp3. Digital cameras also provide us with many conveniences compared to film cameras.

In the development of institutional repositories, documents that are managed and will be included in institutional repositories also vary whether only local content in gray literature is in the form of transcribed text which is included in the institutional repository or digital content such as audio, video, image formats are also included in the institutional repository (Yazid, 2017). Of course, it all depends on the policies of an institution and the vision and mission carried out by the higher education institution. As for this storage media, it is combined with other systems which will require a very large capacity (Kusrianto, 2006). So that researchers have the idea to create a digital document recording system for personal archiving where the digital file address needs can be used by the user.

1.2 Problem

One way to make it easier for computer users to interact with the system is by managing files into digital documents and obtaining file addresses. The problems that arise are, how to find out the file name

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and file address so that it can be uploaded easily and is not difficult to find, and what applications are used to find out the processing of these files.

2 RESEARCH METHOD

2.1 Approaches and Concepts

Using books, articles and other appropriate sources, such as texts available on the Internet, to support this research problem. The research design is described as shown in Fig. 1 From the picture above is a research concept which can be explained by the following steps as like as, prepare files that are related to each other, for example Microsoft Word files, Microsoft Excel and Microsoft PowerPoint files and or others, the resulting original file has a name and address that refers to the year and file number, with the maximum size of MB capacity, using the PHP programming language as file processing to produce digital documents that are easy to find, files in the form of digital documents produce file names and addresses that are easy to find (Arista, 2012).

2.2 Flowchart

This research begins by preparing supporting data such as windows system, word application, excel, powerpoint, photoshop, corel draw, anti virus application as resident memory application and several other applications. File processing uses the PHP programming language that runs on the Windows Explorer and Mozilla Firefox browse as shown in Figure 2.

2.3 Research Procedure

Installation of systems on computers with various versions such as Windows XP SP3 System, Windows Vista System and Windows 7 System and several other applications such as Microsoft Word, Microsoft Excel, Microsoft Powerpoint, graphic applications such as Adobe Photoshop, Corel Draw, Macromedia Flash, Macromedia Dreamweaver; Implementation of the PHP programming language is used on localhost first with various browsers such as Windows Explorer and Mozilla Firefox (Sutaji, 2017); Perform processing on localhost, after running well then publish it to the hosting and server domain; Measurement of file names and document addresses on uploaded condition; Compare the results of file processing with the sample in the institutional

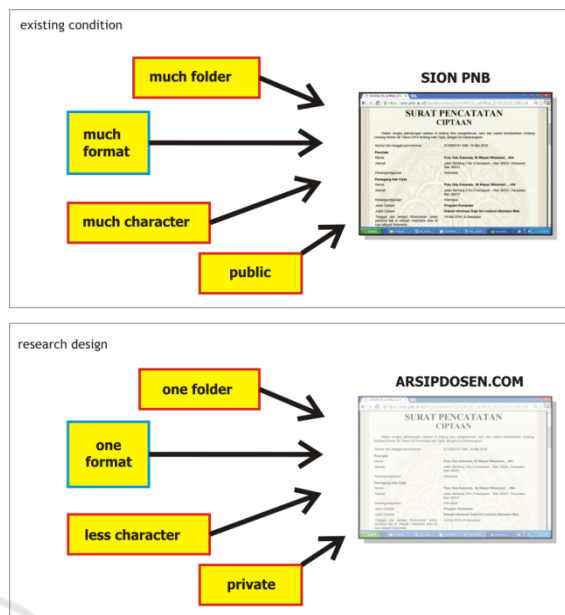repository, both from the file name and the address.

Figure 1: Existing Conditions and Research Design.

3 RESULT AND DISCUSSION

In this study we used the same files to obtain stability in measurements. This treatment is carried out on the same application by differentiating the use of localhost and cpanel in the hosting. Creating index.php file using Macromedia Dreamweaver and sent using Filezilla. Header design using Corel Draw (Chandra, 2003).

3.1 Result Measurement

The files uploaded in this study use the pdf format generated from the CutePDF Writer printer using the standard procedure of the printer.

3.2 Discussions

Uploaded files generated from this study do have few characters and are simple and easy for the user to remember by using the NIDN as the prepared folder and file name. If in the future it is used for the file link, it will still be seen in the file link filling form. To enter this system, the user can communicate first with the admin via Whatsapp API. Communication via whatsapp is more effective and gets. Whatsapp media is currently more familiar with other media and the average person use fluently. Likewise to get it is very easy and is facilities from the mobile.
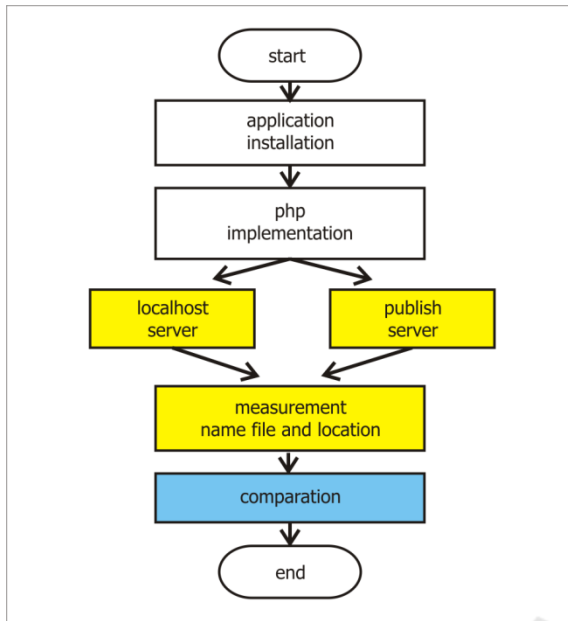
Figure 2: Research Flowchart.

Table 1: Files Used From Research.

Object	Files		
	Activity	*Localhost*	*Hosting*
Dreamweaver	coding	index.php	index.php
Corel Draw	design	header.cdr	header.jpg
Filezilla	upload	folder	zip file
Xampp	machine	ver. 1.6.3	ver. 1.7.4
PHP	machine	ver. 5.2	ver. 5.6

Table 2: Uploaded Files.

Object	Files		
	Name	*Format*	*Result*
Integrasi	integrasi.jpg	jpg	research05.pdf
Vastuwidya	vastuwidya.jpg	jpg	research04.pdf
Jurtik	jurtik.pdf	pdf	research03.pdf
Matrix	matrix.jpg	jpg	research02.pdf
Logic	logic.pdf	pdf	research01.pdf

The Bali State Polytechnic logo is an animation made with Macromedia Flash and the images contained in the landing page are designed with Corel Draw and given an outline in Photoshop, placing the fire from Whatsapp makes it easier for users to communicate with the admin faster.

There is also a glimpse of information about the system and file upload schedule coordinated by the admin. There is also a login link to enter the system, a gallery button, a lecturer news button, and a system guide download button.
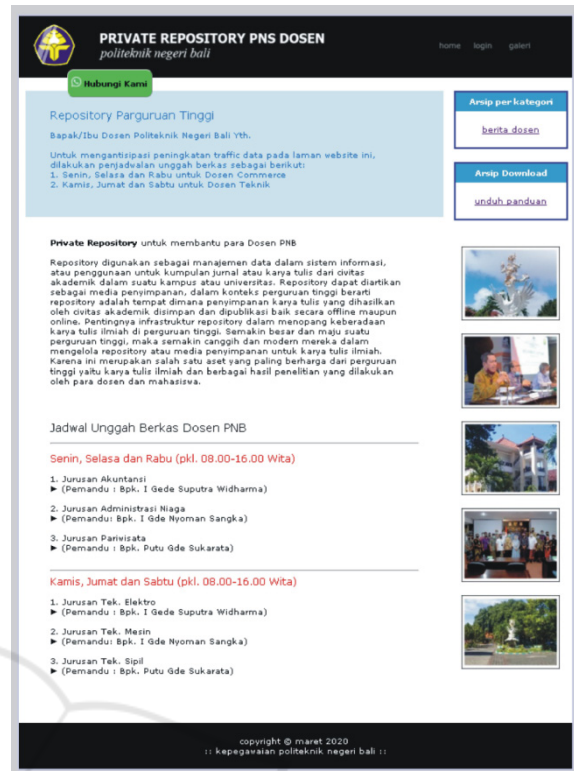

Figure 3: Landing Page.

Some of the pictures that are shown to sweeten the display of the system.

Figure 4: Login Page.

Login page by entering the user's NIDN and password obtained from the admin and later changing the password. The appearance of the communication button via whatsapp is also visible on this page. The home button is provided when the user returns to the front page, the login button is prepared if the user is ready with the NIDN and temporary password provided by the admin. The footer on this page is the same as the front page and is included on every subsequent page.

The user page displays the user's identity, such as NIDN, name, department, gender and address. The

displayed data can be directly managed by the user after pressing the save button. There is a logout button for users to exit the system and a dashboard button for the file upload page.

Initial user information is the appearance of the NIDN and the schedule for uploading files which will be guided by each Lecturer who is in charge as admin, there are also buttons as user navigation in using the system, including: Logout : the user leaves the system, Change Password : users can change the password according to the instructions in the manual, Personal Identity : completeness of user identity, Upload Files : users can upload files according to the conditions, View File Links: the user will then copy and paste. On this page there will be more detailed interaction between the user and the system where there are several important connections to the use of this system.
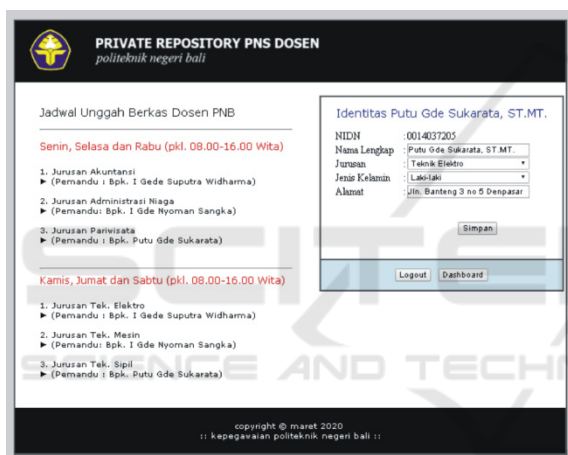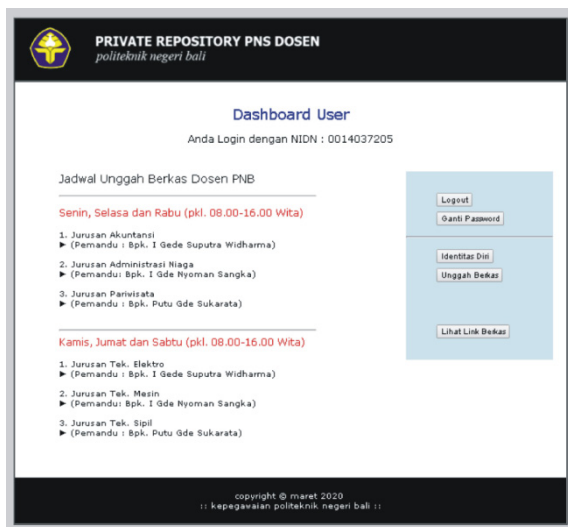

Figure 5: User Page.

Figure 6: Dashboard User.

File upload information page and user can manage uploaded files and print button for information that can be used by user as an archive. This management can be in the form of editing file data such as ISSN, journal name, volume, number, month year, and delete link if the data entered is no longer needed

Tried file upload results on the localhost system have been successfully uploaded to the hosting system. This condition is exactly the same when doing a local experiment.
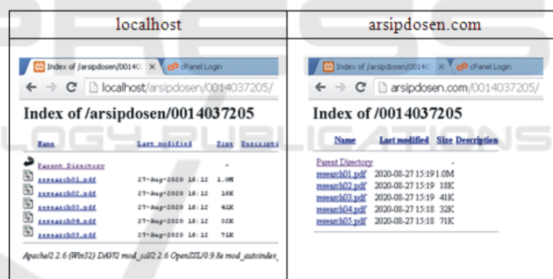

Figure 7: Uploaded Files Page.

Figure 8: Files upload Result.

Thus it can be said that this system can run well. it's just that for connection to hosting there is a change in the database address, database name, username and password to connect to phpmyadmin on the xampp machine.

This system uses a database consisting of three tables, namely the user table, the berkas table and the dosen table. the function of these tables is to accommodate the data inputted and processed by the system (Harianto, 2004). Processing that occurs is still one door through the system admin (Janner, 2006).

The berkas table consists of several fields including the id_dosen field (varchar20), the issn field (varchar50), the namajurnal field (varchar100), the volume field (varchar10), the nomor field (varchar10) and the bulan_tahun field (varchar50).

The user table consists of two fields, namely the id_dosen field (varchar20) and the password field (varchar10). It is in this table that the lecturers will enter their respective accounts to upload files which will later be used as links to prove that they have done research. These files are of course digital files that have been requested by the system in pdf format, in order to produce a small file capacity. The naming of files has been guided in the tutorial on using this system.

The dosen table consists of several fields including the id_dosen field (varchar20), the nama_dosen field (varchar50), the jurusan field (varchar50), the kelamin field (varchar10) and the alamat field (varchar100)
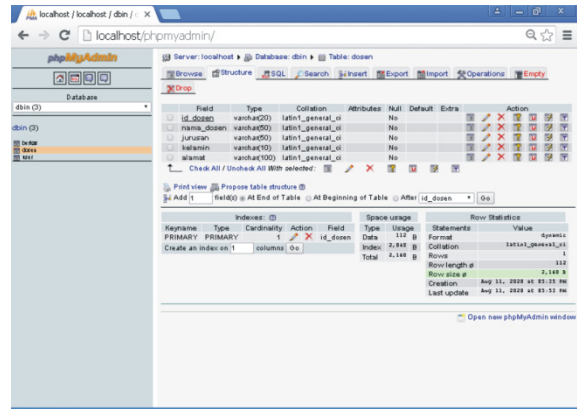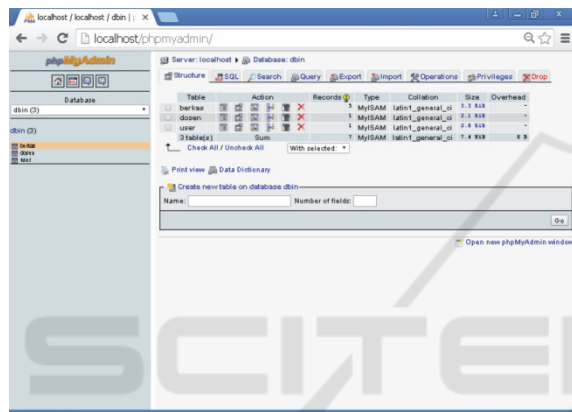

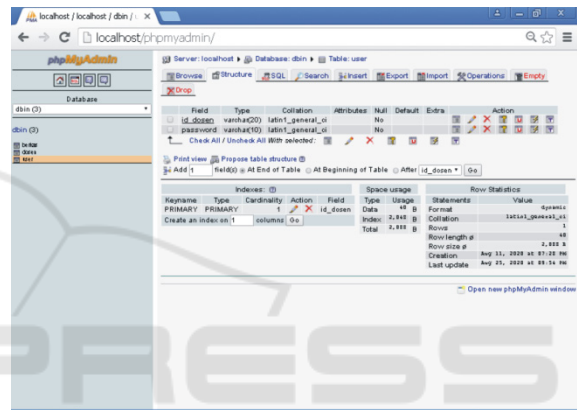Figure 11: Dosen Table.

Figure 9: Database.

Figure 12: User Table.

4 CONCLUSION

From the research we have done, it can be concluded that by uploading a file in a jpg format or in any format, you must first convert it to pdf. How to convert to pdf using the CutePDF Writer printer driver to make it easier and simpler.

When converting files, users are also advised to make sequential file names and number them with numbers to make it easier to find the file name link. In order to run properly the user should also try the search results after uploading this step so that the uploaded file can be accessed without difficulty.
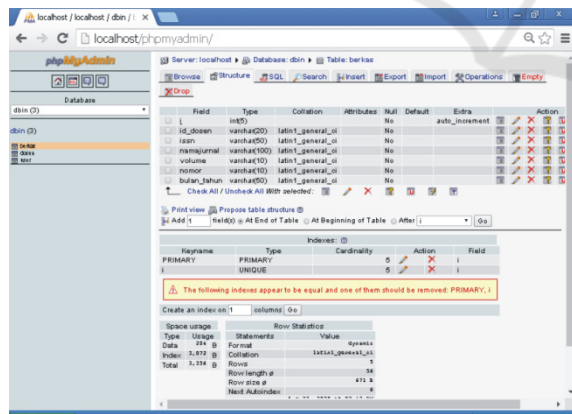

Figure 10: Berkas Table.

The admin will create folder names for users according to the user's IDN name. Meanwhile, the file names are adjusted by the user based on the instructions given in the downloadable system guidelines. Like giving a file name by providing a serial number.

ACKNOWLEDGEMENTS

Community to tried it this system, https://arsipdosen.com

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