Re-imagining Today's Librarianship:
ADINET 2017 Proceedings of 125th Birthday Celebrations of Dr. S. R. Ranganathan

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Developing Video Archive Library Using Omeka: An Open Source Digital Library Management System

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Abstract

The purpose of this paper is to aware LIS professionals and students about a Video library for educational video content using Open Source DLM Software - OMEKA. This paper will discuss about the importance of Video Library for developing new education serve platform, within the context of Digital Media and Digital Library environment. OMEKA has been adopted by large number of Libraries and Museums at outside of India. This paper will highlight the brief description of OMEKA DLMS. And also focus in detail with how to create Video Library using OMEKA DLMS; which includes online exhibition, video archive and connect with social networks.

Keywords: Video Library, Digital Library, OMEKA, Archive

Introduction

In present digital era, vital information is available on web as structured and unstructured digital format. Those are wanted to self-learn through web that is not trusted platform, but if it should make possible to provide an information to user as right way through right platform as per user interest format than maximum learning and knowledge gathering should possible for user. Now day digital information is providing in a different way by libraries, information centres and archival centre. Libraries are accepting recent technologies and it's become a digital library, video library. Video libraries are providing information through e-lectures, digital video.

National Digital Preservation programme of India was initiated by Ministry of Communications & Information Technology in 2008, Devi et.al. (2012).

Video Archiving is a continuing process that starts when video is ready to upload on particular platform and platform is ready for user to educate user in present and future also. Archive video is one of the many technologies used in the development on multimedia. There are so many video formats i.e. AVI, MPEG, MKV.WMV etc. Metadata also needs to be taken when preparing video archive. As much metadata that can be captured is recommended particularly when ease of retrieval is important.

One of the major features of video Library is providing Self-learning platform with fun through video contents/lecture series. Video Library in general term is a platform to video archive and self-learning for students. Video content have now become an extremely important aspect of the e-learning. As technology becomes a key tool for good teaching (Adonis, 2006) academic institutions promote and encourage optimization of the internet technology for information dissemination through video library. Below some are the major softwares and platforms which are used by media library, archival centre and museums to create

video library and also media archive. **OMEKA, Collective Access, Collection Space, Pachyderm, Open Exhibits.**

Literature Review

The rapid development of information and communication technology (ICT) during the past decade has caused a significant impact on education (Norouzi 2014). According to Song and Hill state that online learning gives more control of instruction to learners. In addition, online learning affects the learners' perception towards their level of self-direction. The changing needs of millennial students require instructors to evolve through expanding the scope of traditional face-to-face courses with online content, such as video lectures in a blended course format (Keith & Simmers, 2013).

(Mukesh 2012)Digital contents represent many challenges at every level of their selection, preservation, access at the same time these resources have also come with many advantages giving solutions to many professional problems like providing remote access, convenience in use.

Video is a content-rich medium for perception of information. With the evolution of Internet, (Wactlar 2000) further proposes related techniques for video library deployment over Internet. Video Libraries are becomes wide platform today for diverse different communities i.e. Social, Cultural, Historical research. The important task in creating a Video library is the production or collects the educational video lectures and archive. There should be a perfect statement about the same requirements and there a to z processes video archivin has begun emerging as an academic discipline in only the last few years.

Video library meets the needs of students who might otherwise be unable to attend any class or special lectures, due to archive of video lectures. E- Learning through Video library allows learning to take place in all time zones a same time. It is available twenty four hours a day, seven days a week, nonstop. E- Lectures makes possible for the learners to experience the learning in real time.

(Chang 2008) designed an ideal virtual archival system that was able to satisfy users' individual demands, share archival information and start online video studying in cyberspace. Video Libraries have played, are playing and will be playing great role in teaching-learning process (Rajendra 2014) According to Wieling Video is a very durable, sharable, malleable medium in e-learning because it can be repeatedly viewed and present information in an attractive manner.

Video lectures make available instructor-quality through video library that students can view and study as much as needed to meet their individual learning needs. Educational Video library serve major strategic purposes, they give additional teaching time to students who cannot fully understand the course material through the classroom lectures and support materials such as the textbook. (Brecht, 2008)

Objectives

a) The Main objective of developing video archive library is for educational videos made available for the future and raises awareness and educate to future generation.

b) To knowledge sharing through e- learning using emerging technology

c) To develop an inexpensive, efficient, and easily accessible e-learning platform through digital video library of educational videos

d) To improve ways to e-leaning through video.

e) For Increase access to learning and encourage though video library

f) Easy to understand things through video content in research.

Why Choose OMEKA?

Omeka is a best open source, next generation web publishing platform for media collections. It bridges the scholarly, library, and museum worlds through, and by helping to advance, a set of commonly

recognized web and metadata standards. Omeka aims to put serious web publishing and archiving within reach of all media files.

Omeka offers low startup and maintenance costs which appeals to individual scholars and smaller cultural heritage organizations that lack technical staff or funding for outside web design services. Omeka is available as a free installable download for the standard open source LAMP/WAMP/XAMPP stack.

OMEKA: Video Archiving Software

OMEKA is a free, open source web publishing system for online digital archives and was developed by the **Center for History and New Media at George Mason University**. It allows users to publish cultural heritage objects, extend its functionality with themes and plug-in, and curate online exhibits with digital objects. OMEKA (pronounced oh-MEH-ka) is a Swahili word meaning to display or layout.

"Omeka is a free, open source web publishing system for online digital archives"

http://omeka.org

"Omeka is a simple, free web publishing system built by and for scholars that is used by hundreds of archives, historical societies, libraries, museums, and individual researchers and teachers to create searchable online databases and scholarly online interpretations of their digital collections" http://amandafrench.net

Where is Omeka Use?

There are number of museums and archivist used Omeka for archive and exhibition of them content. Some of the best example of Omeka used for "Bracelo History archive", "The April 16 archive", "The Fiery Trial Abraham Lincoln & The Civil War" etc.

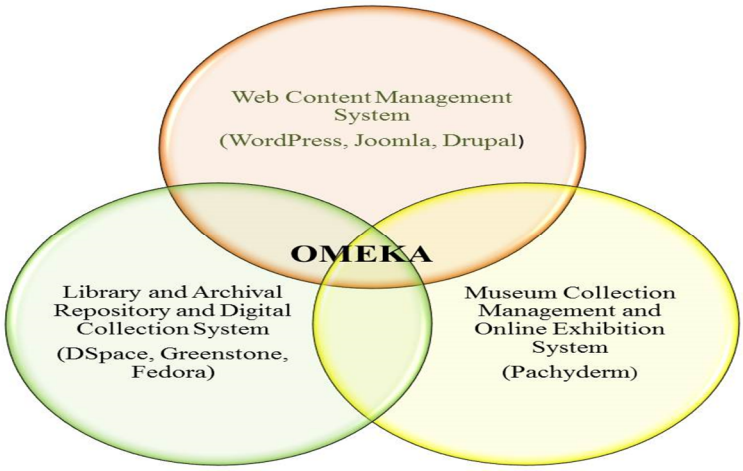
Feature and Functionality of OMEKA

a) Free, open-source,
b) Digital publishing suite,
c) No contracts or annual fees,
d) Easy to use,
e) Strong community of documentation and support,
f) Extensible,
g) scalable and flexible,
h) Standards-based metadata and web design,
i) Customizable Web Design,
j) Interoperable.

Formats Support

- Documents = PDF, DOC, TXT, DOCX, HTML, XML etc.
- Still Images = TIFF, GIF, PNG, JPEG etc.
- Moving Images/Video = MPEG,AVI, MP4, SWF,WMV, QT, SWF
- Sound = MP3, WAV, MIDI, AIFF, RA, OGG

System Architecture



Required Hardware/Configuration to Create Video Library

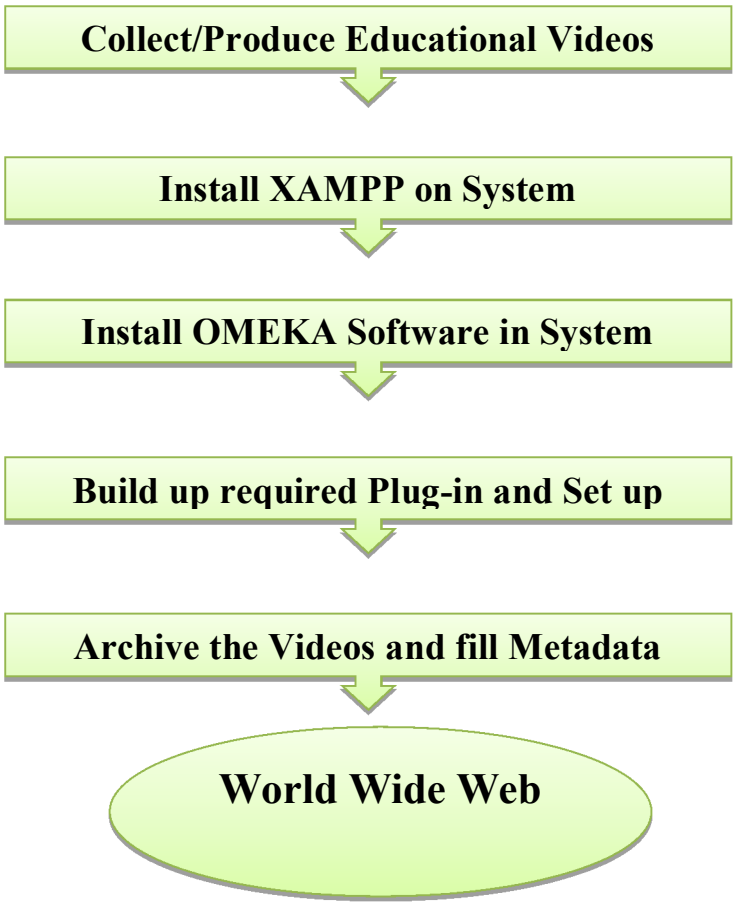
Omeka is conventional Linux/Windows OS, Apache, Mysql, PHP, Perl (LAMP/WAMP/XAMPP) application. Omeka also utilizes an open-source image processing package-Imagemagick, to enable the auto resizing of images added to the system for display. A basic familiarity with Apache web server and Mysql database server administration is required for a successful installation. Foe a user comfortable with setting up XAMPP application, an Omeka installation can be efficiently accomplished in a very short amount on time. For Omeka installation required minimum configuration in system i.e. 500 GB hard disk, 4 GB RAM.

- Windows/Linux Operating System
- 4 GB RAM (you can exceed it)
- 500 GB Hard Disk (delimited as per requirements)
- XAMPP Pack: Apache Server , My SQL Database , PHP, Perl

How to Create Video Library Using OMEKA

First of all you decide, which video content do you want to archive on video library, here developer archived educational videos i.e. e-lecture. Before to install an Omeka, it is mandatory to install XAMPP/WAMP for Windows or LAMP for Linux pack in your system as per OS, developer used XAMPP pack to install an Omeka for video library, after completed installation of XAMPP one folder has been created in your default path i.e. XAMPP, in this folder one main folder i.e hcdocs had created, than put an Omeka software's source in this folder.

Now localhost system capable to run an Omeka after run apache and mysql from XAMPP control panel. After completed installation an Omeka set an appearance and install required plug-ins from Omeka plug-ins panel. Here step by step process mention for create video library…



Advantages of Video Library

a) Through this archive will reach at worldwide audience and build up e-learning environment.

b) Individual, self-directed, self-paced and convenient e-learning

c) Provides a media resource for students, faculty and alumni that support e-learning and collaboration.

d) Provide Flexible learning

e) The archive of ―Educational Video‖ will help to users to expand their knowledge about any field and they may know something different other than regular curriculum.

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