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Designing of YouTube Access Interface for Institutional Digital Repository

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Abstract

YouTube is a video-sharing website. It allows users to upload, view, rate, share, add to favorites, report, comment on videos, and subscribe to other users and offers a wide range of user-oriented and education-related videos. Digital resource is growing and digital libraries will include digital materials that subsist outside the physical and administrative bounds of any one digital library. Even though digital libraries include all traditional processes, these have to be revised and enhanced to accommodate the differences between digital media and traditional media. This paper describes a system that can describe and manage digital resources in libraries.

Keywords: Collection Tree Interface, Institutional Digital Repository, Metadata, Omeka, Open Access, Search Interface, Word Cloud, YouTube Collection

1. Introduction

"We remain committed to finding a solution to the music licensing issue in Germany that will benefit artists, composers, authors, publishers and record labels, as well as the wider YouTube community".

---- YouTube Loses Court Battle Over Music Clips (2012). BBC News. London. April 20, 2012.

Learning is inevitable and indispensable for every community in the society due to increasing the tools of information communication technology in the learning environment. New learning technologies seek to manage a wide range of educational videos. These videos can easily be imported into institutional digital repositories. YouTube is a good website with thousands of videos. Most academic libraries are involved in building institutional repositories. Repositories are important and can be made to manage even open access resources is providing sophisticated search interface to find the digital resources available. Institutional digital repositories can easily manage open access resources using tools like OAI-PMH. Search engines including Google Scholar, Yahoo and Scirus can also use OAI-PMH to find deep web resources.

2. Objectives

The objectives of this paper are:

1. To explore the YouTube collection for developing institutional digital repositories;
2. To examine means for importing resources on the YouTube into the repository using Dublin Core and Visual Resource Association Core metadata standards; and
3. To explore web 2.0 word cloud of YouTube collection for identifying suitable videos.

3. Review of Related Literature

Hardesty (2014) discussed the digital library collection of different levels have identified through open source tool Omeka. Apart from this it also manage the multiple digital resources to improve the user community. Rath (2016) opined that omeka have performed many library activities such as administration of website, collection optimization, item types formats, collaboration, standards of metadata, creation of simple page, advanced custom

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page, social networking, and many parameters. This paper also discusses the web hosted version of the exhibit tool which support the cross collaboration for digital humanities projects, determine to addressing the gap in the social literature for libraries and professional staff. The main objectives of this paper are to select how and why virtual machines, cloud computing, and important development regarding the web based activities for enhancing the library and information services and it also highlights the effects of virtualization for LIS education (Tomer, 2017). This is also an important paper in the field of institutional repositories which clearly discuss the benefits and disadvantages of repositories in different software framework for librarians' and authors' participative roles and open access. Here also select the global recommendations of institutional repository for the successful implementation in different institutions such as academic, research and public sector which can easily identifying the scholarly communication (Jain, 2011). Learning object repository is an important aspect in content management system and this can be achieved by using the open source software Wordpress which helps to many library professionals because its very user-friendly and simple. In this paper only study the Wordpress for easy implement in different libraries for the better management of digital resources (O'Neill, 2017). Web 2.0 facilities have also important elements in designing and developing the open access repositories and this can be performed by using the different tools and techniques for constructing the institutional digital repository (Shafi, Gul & Shah, 2013). Library 2.0 is another aspect in content management system and this can be achieved on the basis of exploratory questionnaire survey (Edda, 2014). In this paper only discuss the popular metadata standard SWORD for the development of interface of different institutions (Lewis, et al., 2009). Linking the different repositories is the main objectives of this paper which opined by Awre and Swan, 2007 to identify the suitable models both the technical and theoritical aspects of end-user related services if four areas user community requirements, roles and responsibilities, technical architecture and infrastructure, and business and management models. In the light of this study the following papers have been noted--Mandal (2015) in his paper states about thesaurus construction tool and in another paper (Mandal, 2016) studied on search indexing tool. Mandal (2017) his paper, developed a domain specific cluster for college libraries. Chakrabarti and Mandal in their paper on DOAB showed how single window search facility of books is helpful for researchers.

4. Methodology

In this work the design and development of an integrated institutional digital repository has been done using the Omeka open source software. The download automatically imports YouTube with metadata in Omeka on Ubuntu operating system. We chose the Ubuntu operating system because it is very reliable and secure for the management of YouTube. The download process is very simple; one has to just copy the YouTube URL and paste into the Omeka Window; the YouTube - both the users as well as admin interfaces- appear in Omeka interfaces.

5. Import YouTube

Development of a digital repository in the field of library and information science education is fairly simple and straightforward. In this research describes a project to successfully import educational videos in library and information science into the institutional digital repository for managing and retrieving the YouTube resources. The process and methodology is very simple and user-friendly for importing YouTube by using only four fields, viz., YouTube URL, collection, responsibility, and public visibility. The Figure 1 represents the YouTube import option to access the video in the field of library and information science. This is the admin interface of institutional digital repository using the open source software omeka high performance.

6. Collection Tree

Collection is an important component in content management systems and online digital collections. Items created under the collections include the 15 Dublin Core metadata elements. Items are added to each collection to enable user's easy access to online resources. The Figure 2 represents the collections tree interface of the digital repository using omeka and here also the new collection with sub-collections in the repository are displayed.

7. YouTube User Interface

This enables users to easily access the YouTube videos from the user interface. It can easily manage the different types of metadata. All the YouTube videos in a collection are displayed (Figure 3). Search devices such as Truncation, proximity operators can be employed for effective search. proximity he admin interface could be used to edit and modify as also to manage the blog Users can change the login and password as super user to create and maintain

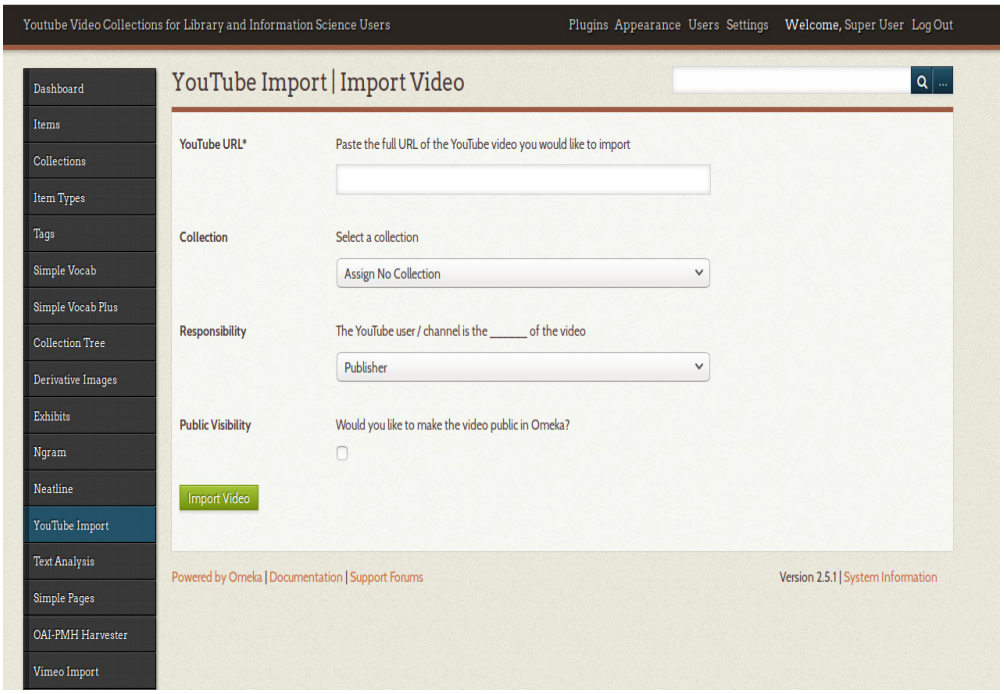

Figure 1. Importing YouTube video interface.

the institutional digital repository. It can save the time of the user in accessing the videos in library and information science.

It is also possible to access and view the full video with a click and it will start automatically. Figure 4 shows the full video display with suitable citation interface in Omeka.

The Web 2.0 facilities can also be made available by using this integrated framework for institutional digital repository. This interface is known as word cloud interface. Browsing by tag facility is also available from this interface. The Figure 5 represents the word cloud interface of YouTube.

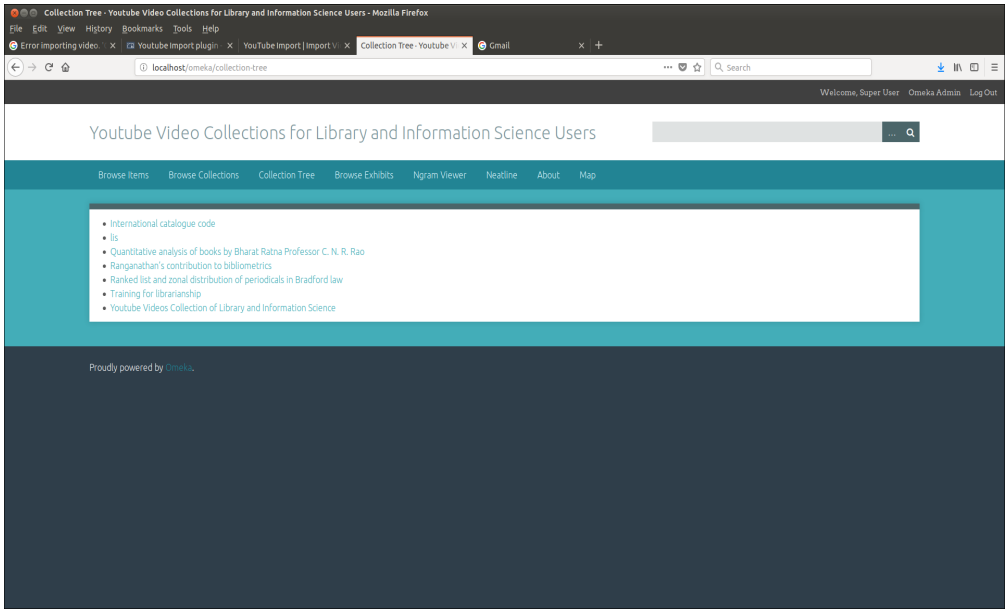

Figure 2. Collection tree interface of YouTube.

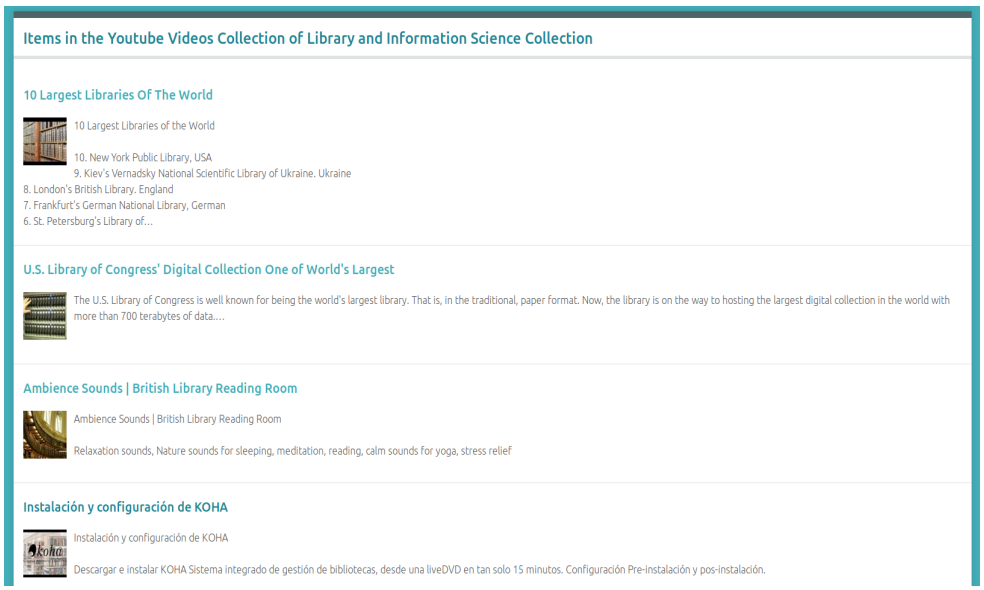

Figure 3. User interface of YouTube.

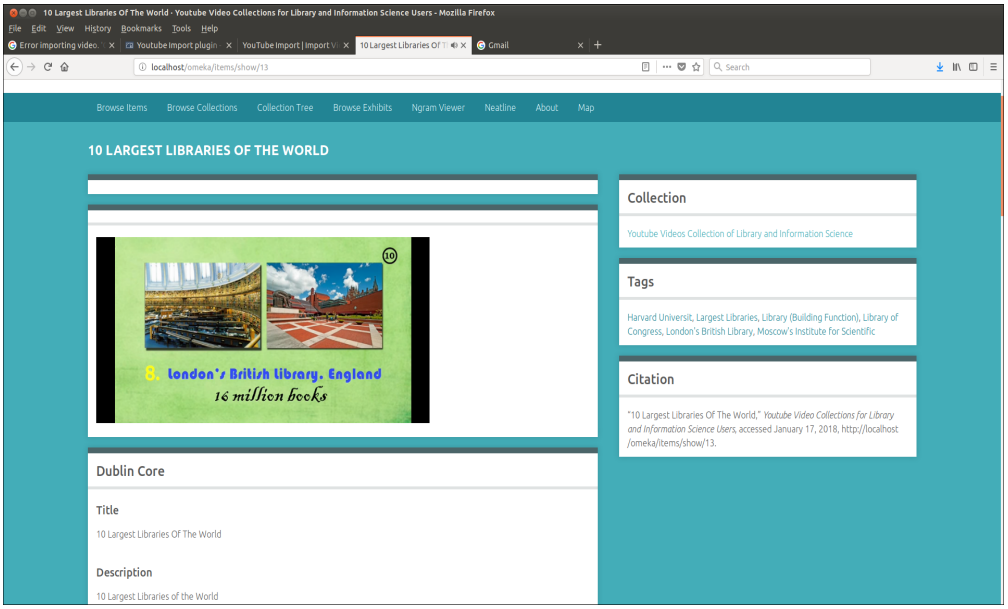

Figure 4. Full YouTube video display interface.

8. Conclusion

This research has demonstrated successful integration of YouTube with Omeka open source software for the better management and retrieval of YouTube videos. It performs different important tasks such as interactive education, learning from others, etc. This single window interface is very user-friendly to users.

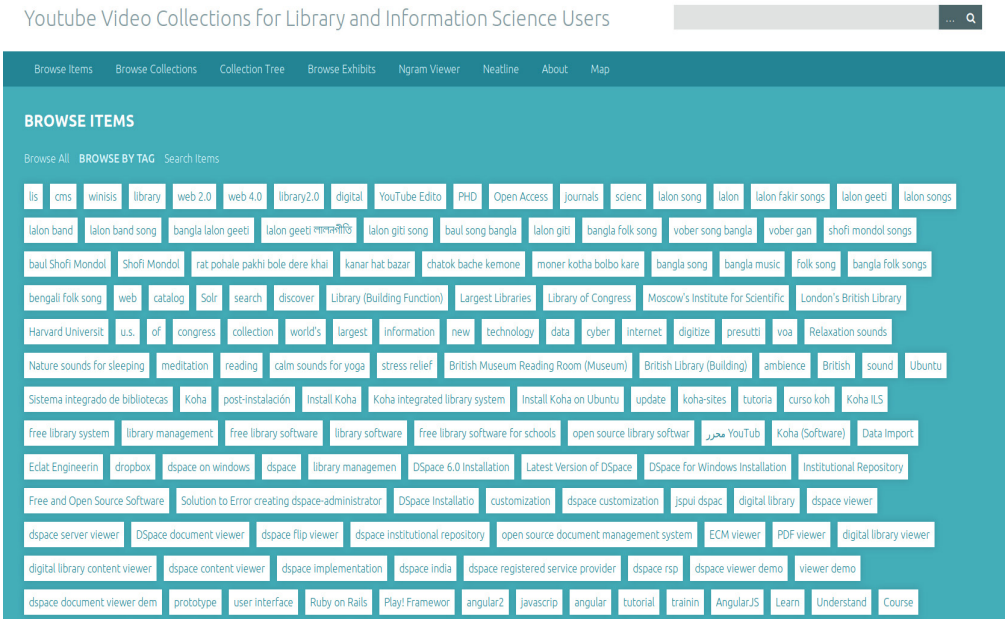

Figure 3. User interface of YouTube.

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