E-Publishing of Nirma University Law Journal using Open Journal System: A Practical Implementation

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E-Publishing of Nirma University Law Journal using Open Journal System:
A Practical Implementation

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ABSTRACT

The purpose of this paper is to describe the best practices towards practical implementation to e-publishing of Nirma University Law Journal using widely used open source e-publishing software i,e, Open Journal System (OJS). The whole process and mandatory consideration included in this paper which has been adopted to make available the journal online. The paper includes brief information about e-publishing of the journal using Open Journal System. Future planning towards e-publishing of the journal is also mentioned in the present paper.

(**Keywords:** *Open Journal System, E Publishing, Nirma University Law Journal,*)

Introduction

The present scenario towards the rise of new technology has massively changed the ways of the publishing industry. With the rises of electronic publishing has brought a revolution in the traditional publishing approach. At the beginning time of e-publishing only digitization passion is loudly shouted in emerging world. Internet and web technology has forced to publishing community to driven towards e-publishing to full fill criteria for open access. This rapid change in the e-publishing has affected the traditionally printed journals. According to Quinn traditional scholarly journals will likely to disappear within 10 to 20 years and electronic substitutes will be different from the contemporary periodicals. In present open access phenomena, there are a number of effective tools and software are widely emerge to publish scholarly content electronically. The American Chemical Society (ACS) was the first professional body to publish their journals in electronic form in 1983. The American Physical Society (APS), the Institute of Electrical and Electronic Engineers (IEEE) and the Institute of Engineers offer their prestigious journals in electronic form.

With the acceptance of present environment and transformation towards e-publishing model, Institute has planned to publish its journal electronically. A study carried out by (Bhatt, 2014) on law faculty opined that online databases and electronic journals are their preferred resources. To spread out awareness among scholarly research work and articles which are publishing in *Nirma University Law Journal* is the main purpose to made available online the same. *Nirma University Law Journal* (NULJ) has been published half yearly since July 2011 in print format. This has been made available online through e-publishing using open journal system with all past issues of the publication. (https://www.nulj.in/).

Electronic Publishing and Open Access

Electronic Publishing is the process for the production of typeset quality documents containing text, graphics, pictures, tables, equations etc. E-publishing has already become a widespread practice among academic libraries. The ultimate goal of electronic publishing is to provide fast and easy access to the information contained in the objective publications with simple, powerful search and retrieval capabilities. Electronic publishing process considers many factors and objects i.e. digital contents, platforms, server spaces, network setup, human resources, copyright issues, plagiarism check.

At the beginning of the twenty-first century, Carol Tenopir and Donald W. King reported that among 6,771 titles published in the U.S. in 1995, 40 percent were commercially published, 23 percent by scholarly societies, 16 percent by educational publishers including university presses, and 21 percent by "others" (2000, p. 237). Open access publishing is the publication of material in such a way that it is available to all potential users without financial or other barriers. This rapid change in electronic publishing has affected the traditionally printed journals.

Open Journal System (OJS)

Open Journal Systems (OJS) is an online journal management and publishing platform that was first launched in 2002 as open source software freely distributed by the Public Knowledge Project (Willinsky, 2005). In addition, Open Journal System is a highly flexible editor-operated journal management and publishing system that can be downloaded for free and installed on a local or web server. Open Journal System has several common features which are mentioned below.

1. Locally installed and locally controlled

2. System follow step by step e publishing process

3. Online submission of e contents.

4. Standard metadata supported.

5. Comprehensive indexing

6. Auto notification and alert facility

7. Open source community

The software can be downloaded from the Public Knowledge Web site (https://pkp.sfu.ca/ojs/) and installed on a Web server with a Linux, Windows, or Unix operating system, running Apache, PHP and the MySQL database. OJS management systems are structured around the traditional journal workflow required to move a submission through reviewing, and if accepted, editing and publishing.

Below charts show the roles which are predefined in Open Journal System. Superuser will be assigned a role to individually according to the work responsibility in publishing process

of a journal. These roles are depended on the whole process to e-publishing journal which is followed by Open Journal System.

Journal Manager :	Responsible for overall functions and maintain website
Reader :	Very simplify role limited to read and download an e contents.
Author:	Able to submit online manuscripts to the journal directly
Editor	Responsible for entire review, editing and publishing process.
Section Editor:	Responsible to edit and review for assigned papers or articles.
Reviewer:	This role is selected by Section Editor to review a submission.
Subscription Manager:	Responsible for manage journal's subscription , types of subscription etc.
Copyeditor:	Specially assigned to editing grammatical error or any further writing.
Layout Editor:	Transform the manuscript in to perfect formats
Proof Reader:	Specially assigned role for overall proof reading of journal content.

Open Journal System Requirements:

Operating System: Any OS that supports the below software, including Linux, BSD, Solaris, Mac OS X, Windows

Database: MySQL 4.1 + or PostgreSQL 9.1.5 +

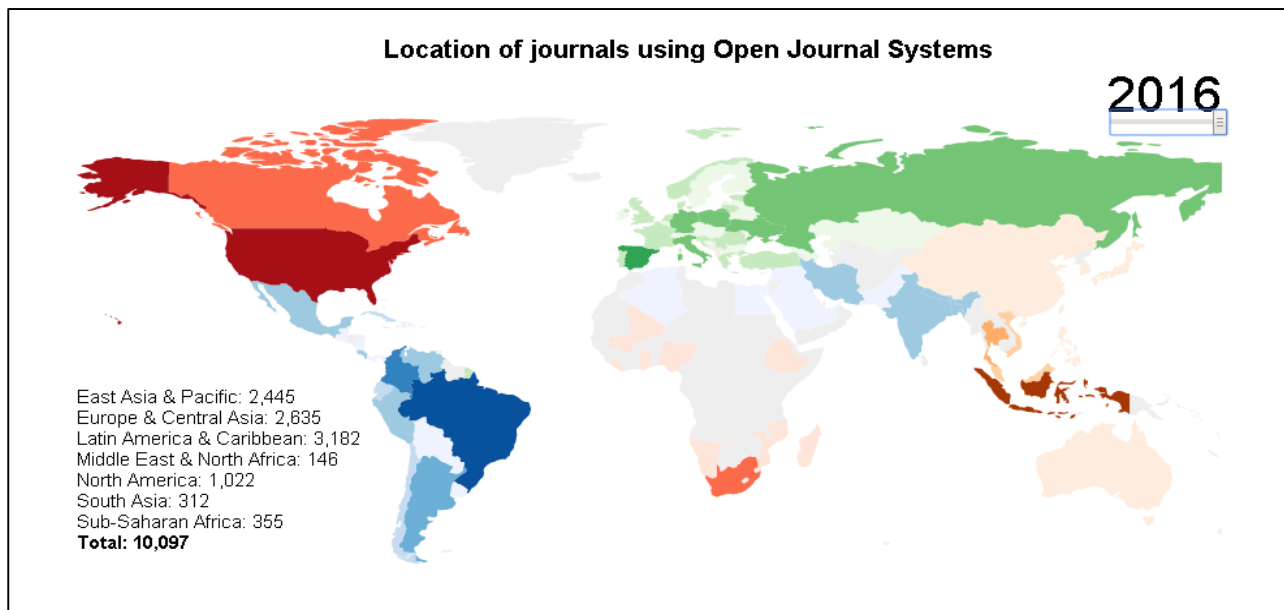*Server*:   Apache 1.3, 2x +

Language used: PHP 5.6

Development of E publishing using Open Journal System

Figure no. 1.0 clearly shows that continues development in e-publishing of scholarly content using Open Journal System.
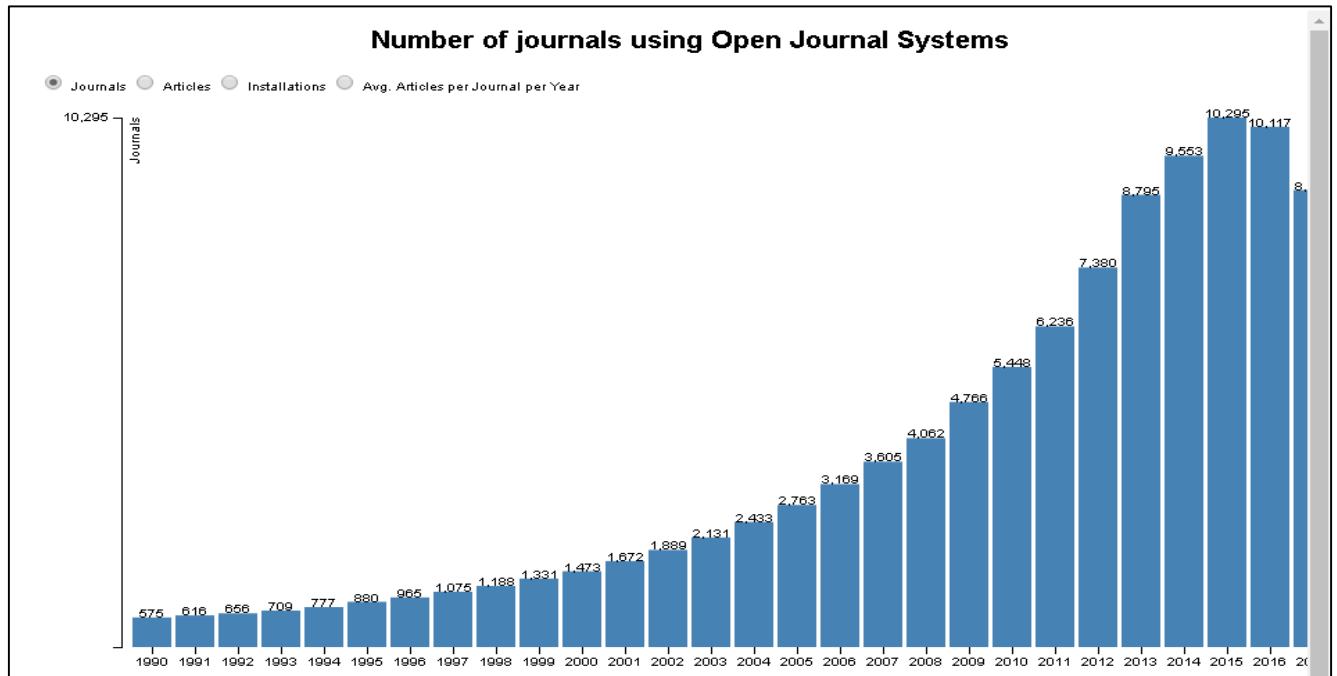
Figure 1.0 *No of journals using OJS*

Figure 2.0 *Region wise usage of OJS*

Region wise usage of Open Journal System

Open Journal System has been used globally to e-publishing scholarly contents. There are total 10,097 institutions and organization has installed Open Journal System till 2016 in the world. Latin America and Caribbean region using Open Journal System in large amount followed by Europe and Central Asia.

Objectives to E-publishing of Nirma University Law Journal

1. To make available online and openly accessible.
2. To increase Visibility, Usage, and Impact of Published Research.
3. To increase readership and citations.
4. Move towards e-publishing.

E-publishing of Nirma University Law Journal

There are number of circumstances, challenges, ideas, questions and solution faces during work on it. To accomplish the prescribed objectives and make successful this process, it was mandatory for us to identify best option and way to e-publishing *Nirma University Law Journal*s. Following steps are involved in this whole process from starting to future planning for made available online to *Nirma University Law Journal*.
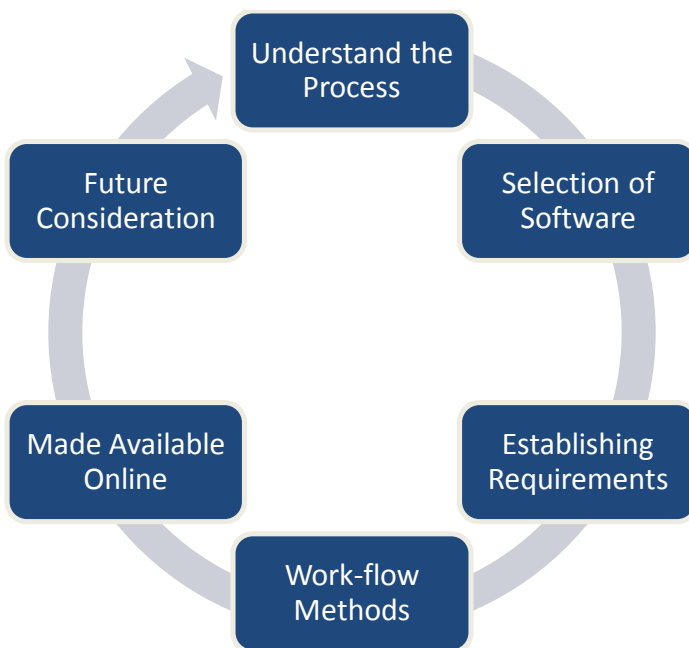

Figure 3.0 *Process of E publishing the Journal using OJS*

1. Understand an e-publishing process

The first step to start the process in any kind of practical work or an implementation, it is mandatory to understand deeply concept regarding the work will be carried out. It is became necessary to clear the way of work and design to avoid any kind of problems. In this implementation of e-publishing, author understood a basic concept of e-publishing; its requirements related to content development, choose a platform to e-publishing and aware about consideration which was needed.

2. Selection of software or system to e-publishing

After understanding the process; the main question has arrived and it was for the selection of software or system which has been fulfilled the whole criteria as per objectives. In view of this, the task of making a good initial selection of open source software for e-publishing and after did some literature review basis on an e-publishing software, After getting information associated to some most probably used system or software; Open Journal System (OJS) has been found out as a best open source platform which was developed by Public Knowledge Project.

3. Establishing requirements

To implementation of Open Journal System for e-publishing; it has required to arrange some pre-requisite to install Open Journal System. In order to access an item of software, it is important to be clear on what one's needs are. Cloud-based server space has been adopted to install and run the Open Journal System. The main benefits of using cloud-based server are security, back up and avoid crashing circumstances. Following important has been carried out during this steps i.e.

- Installation and configuration of open journal system
- Customizing user interface
- Installing PKP harvester

4. Developing work-flow method

To start backend work and upload all past and present articles of the journal on this platform; the object-oriented method has adopted. To maintain a record and full fill the value of metadata; one master database has been prepared which includes author, title, abstract and keywords. Issue wise article uploading process carried out as per the assigned role. Following functions are involved in this method i.e.

- Content development (If self-submission)
- Uploading content (If self-submission)
- Adding metadata
- Editing submitted papers
- Reviewing final submission
- Publishing article

5. Implementation and made available online

After completed all backend work and verification; procure suitable domain to made journal online available and Enabling search engine friendly URL i.e. (https://www.nulj.in/).

6. Future Consideration

E-Publishing of the journal is continuing process. Time to time changes and up gradation work is carried out similarly. Identify problems and solutions is became the main task to compete with future e-publishing systems.

Snaps of Nirma University Law Journal Online Platform

https://nulj.in/

Figure 4.0 *Home page of Nirma University Law Journal*

https://nulj.in/index.php/nulj
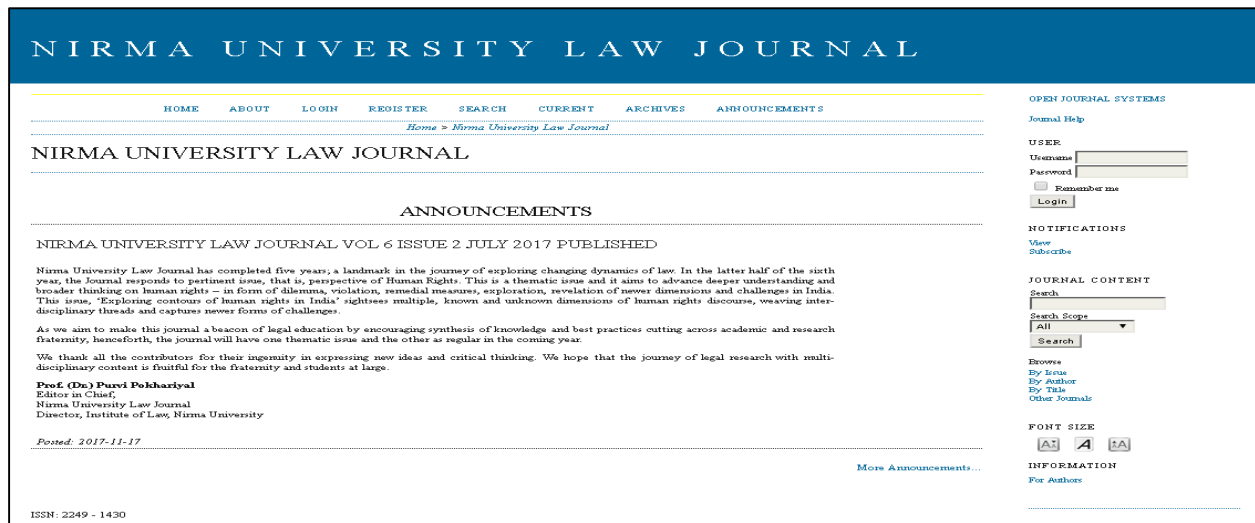
Figure 5.0 *Announcement of Nirma University Law Journal*

Figure 6.0 *Archives of Nirma University Law Journal*

Figure 7.0 *Table of Content of Nirma University Law Journal*
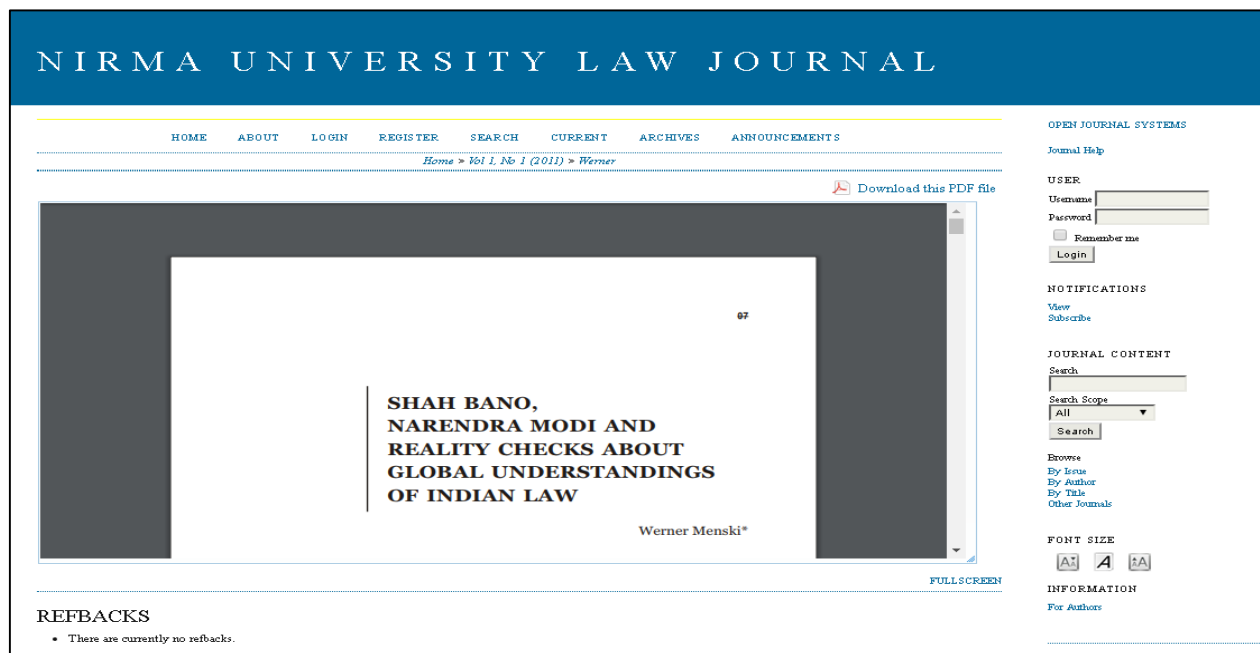
Figure 8.0 *Full Text paper of Nirma University Law Journal*

A practical implementation for e-publishing of the journal is very significant work to fulfill all objectives. User-friendly interface is required to attract user and increase usage of the journal platform. Figure no. 4.0 shows the home page of the journal, the user can access the journal details from here. This platform has a facility with an announcement of current publication, latest issue or any further attraction. Announcement page looks like the same which is mentioned in figure no. 5.0. All past issues of the journal have been uploaded, a user may access any article from any issues of the journal from archive page and from the particular issue page as per shown in figure no. 6.0 and 7.0. Anyone can access full-text paper or download the same as per appear in figure no. 8.0.

Advantages of e publishing of Nirma University Law Journal

1. Open accessible all the articles with archives with full text.

2. Anyone can download, read and cite an article

3. Increase readability, awareness, and visibility of the journals

4. Author has enable to online submission of an article

Future Planning and Developments

1. More journals of the institute will be planned to publish on this platform

2. Dynamic customization of the user interface

3. Increase readability, awareness, and enrolment of the research community

Conclusion

E-publishing will have a great role in making the scholarly publications more useful. It may be a very easier way to read scholarly e contents anytime, anywhere using supportable devices. It's an interesting thing to imagine as "Research in Pocket". E-publishing of scholarly content makes knowledge capture society and support to research community in their research work to find out related research work. *Nirma University Law Journal* is now continuously publishing online as well as print.

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