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Implementation of OJS Based iJC Media E-Journal System at University of Pramita Indonesia

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Abstract

The increasing development of information technology in the era of 5.0 can provide information that is informative and very easy to obtain in the form of electronics. But not at Pramita University of Indonesia in managing journals or other scientific works still using conventional or manual methods that cause the main problem that is causing increased costs and time, the data can be separated because the old data is not archived properly and the management of scientific works also does not meet the specified requirements by Ristekdikti with regard to Journal Accreditation which requires that journals be managed online because that will be easier and faster. With the iJC (iLearning Journal Center) can publish journals online, make it easier for users to submit journals, change the management of ejournal to be more distributed and can simplify the process of submitting manuscripts, reviewing, editing, until the publication stage and by using iLearning Journal Center will produce e quality journal. In this study, researchers used several methods, namely the method of observation and study of literature and using Flowcharts.

Keywords: e-journal, IJC, Universitas Pramita Indonesia.

1. Introduction

In the era of industry 4.0 which is growing rapidly and quickly is clearly seen in information technology [1] and increasing to the sophistication of information technology 5.0 today, the internet is the largest source of information. Based on the latest survey conducted by the Asosiasi Penyelenggara Jasa Internet Indonesia (APJII) in 2016, it shows that in Indonesia there are at least 132 million internet users and 40% are social media users. Along with the development of technology and modernization, establishing relationships can be done

online [2]. The benefits of information [3] in human life have a considerable impact on the development of an agency. High-quality or high-quality information can only be generated from a quality information system. No matter how small the information generated from a system will ultimately relate to data and information. The emergence of a computerized system as a progress in science and technology [4] is certainly very helpful in solving various problems encountered, especially in data processing in order to obtain information that is fast, accurate and relevant to the actual situation. So the management and publication of scientific journals online becomes very important, so we need a system that can be used to support the management and publication of scientific journals online [5]. Open Journal System (OJS) is one of the open source software used to publish journals online. At present the agencies and associations that are the object of research have used the OJS based journal processing system version 2.4.8 [6].

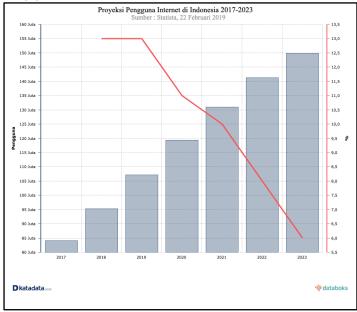


Figure 1. Internet User Statistics 2017-2023

Statista 2019 data shows that internet users in Indonesia in 2018 were 95.2 million, growing by 13.3% from 2017 which was 84 million users. In the following year internet users in Indonesia will increase with an average growth of 10.2% in the 2018-2023 period. In 2019 the number of internet users in Indonesia is projected to grow 12.6% compared to 2018, which is 107.2 million users. In 2023, the number of internet users in Indonesia is projected to reach 150 million users [7].



Figure 2. Logo of University of Pramita Indonesia

University of Pramita Indonesia is a tertiary institution located in the Binong area, Tangerang has 3 (three) faculties and 1 (one) postgraduate program including: Faculty of Economics, Faculty of Engineering, Faculty of Social and Political Sciences and Postgraduate programs of Social and Political Sciences which respectively each Faculty has a journal management but it is still carried out in a conventional form therefore iJC collaborates with

LPPM University of Pramita Indonesia with the aim of being able to overcome these problems [8].

Scientific works or also referred to as journals that contain scientific matters and the information contained therein are the result of research by researchers and publications are conducted regularly. The information provided in journals is up to date which sometimes cannot be obtained from reading sources such as books [9]. The nature of the journal is usually more actual because it will link with the problems in the field with a philosophical review. If there is new scientific work, the journal can be used as a reference in the writing. In its development, journals have two forms that can be accessed by users, namely: the conventional printed form alias in the form of books and electronic / digital forms [10]. Journals with electronic or digital forms that have a high reputation usually present accurate and quality content on the information in them. However, it cannot be denied that existing journals, especially journals that are not well managed, will provide inaccurate information and have a low level of trust and validity or also provide non-contemporary information content.

In line with the Ministry of Research, Technology and Higher Education Circular Regarding National Journal Accreditation Number 101/E5.2/SE/2018, there are 7 (seven) requirements for accreditation of scientific journals including journals which must be published online and have at least 2 (two) publications online. has a minimum of 5 (five) articles [11].

Therefore to answer the challenges of the Ristekdikti iLearning Journal Center (iJC) is present in order to provide a forum for a process in managing electronic journals (e-journals) or publishing journals online which in its application is focused on being able to shift a system in publication and managing conventional alias printed journals developed by the Public Knowledge Project (PKP) based on Open Journal Systems (OJS) with open source that can be used to manage an electronic journal or e-journal that provides convenience, and can reduce the increase in costs and time in managing journals. The main objective at this time of the iJC system (iLearning Journal Center) is to facilitate the academic community in the form of management and publication of every scientific work or journal on a regular basis at the college he made online.

The obligation to produce a journal is a provision created to improve the quality and quality of education in Indonesia. Current educational institutions must always prioritize innovative and creative, the number of applications that have been made online journal management is no less important than other systems and applications needed by universities because with the online management, the journals that want to be published will not be scattered [12]. Even some other universities that have used the e-journal format to make it easier for writers to do scientific work, and in order to train their students to process information is made a graduation requirement in the process of validating journals for students so that students can more easily get a value at the Higher Education, and so students can be better trained in managing and writing scientific papers in order to provide updated information to other communities [13]. But there are also many universities that still use the system that is still manual so that it has problems such as publishing journals that are so difficult and the data is fragmented because it takes a long time and the costs are quite large. journals that require journals to be managed online in a way that is done more easily and quickly [14]. After the researcher analyzes the problem using a data collection method in the form of observation, interviews and literature studies and uses UML (Unified Modeling Language). To overcome these problems researchers provide a system proposal that makes it easy for users so that the journal management process can make it easier for users [15].

2. Research Method

In a study certainly requires research methods in order to more easily obtain accurate information. In this study using several research methods including design methods and data collection methods where there are observations, interviews and also literature study. And the following is a picture of the data collection process flow:

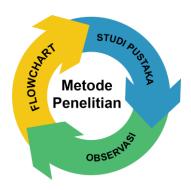


Figure 3. Research Method Models

Notes:

Observation Method

It is a method of collecting data that is carried out directly at the research location. This research was conducted at the University of Pramita Indonesia in order to obtain accurate data in accordance with what happened.

Flowchart Method

It is a useful method for obtaining researchers references in obtaining accurate information from previous studies and this research method is useful for storing information that is relevant to the topic or problem that is relevant to the topic that you want to study.

Literature Study Methods

It is a useful method for obtaining researchers' references in obtaining accurate information from previous studies and this research method is useful for storing information that is relevant to the topic or problem that is relevant to the topic that you want to study. There are several literature studies that have been done in previous research on iJC (iLearning Journal Center) and other related but existing research, including:

A research of scientific work that has been done by Indri Handayani, Erick Febriyanto and Fitra Putri Oganda in 2020 with the title "Pemanfaatan Sistem iJC sebagai Media E-Journal Pada Perguruan Tinggi dan Asosiasi". In the research conducted, it discusses the utilization of the iJC system such as its use and for the dissemination of information about managing journals accurately and efficiently, so that this is related to journal writing or scientific work so that it can display accurate information and can make it easier for administrators to monitor using computer based [16]. Research conducted by Nurlaila Suci Rahayu Rais, Ruli Supriati and Siti Ika Danti in 2018 entitled "Instalasi Open Journal System (OJS) Versi 3 Sebagai Pendukung Kegiatan Pengelolaan dan Publikasi Jurnal Ilmiah". This discusses about understanding how to install OJS version 3 and to find out the advantages of OJS version 3 which can support processing and publication activities in electronic scientific journals (e-journals) [17].

Research has been conducted by Untung Rahardja, Erick Febriyanto, Indri Handayani and Hesti Widya Ningsih entitled "Penerapan Teknologi Open Journal System Sebagai Media Publikasi Jurnal Ilmiah Elektronik Bagi Perguruan Tinggi Non IT Di Tangerang" in 2019 where this research discusses the use of the Open Journal System on Non IT campuses, the majority of which do not have workers in the IT field so as to facilitate users in managing journals, then the use of OJS for Non IT campuses to carry out the National Journal

Accreditation requirements [18]. Scientific journal research conducted by Indri Handayani, Erick Febriyanto and Muhammad Shofwatullah in 2019 with the title "Pengembangan Sistem Pengelolaan E-Journal Berbasis Open Journal System (OJS) 2.4.8 ke Versi 3.1.0.1" in this study discusses improving the installation of the Open Journal System version to the version that has the best quality so that in managing the journal process can be done more efficiently and effectively then the appearance of the system can be more attractive [19].

Research conducted by Denny Jean Cross Sihombing, Tomoyud Waruwu and Marganda Simarmata in the research year 2018 entitled "Perancangan dan Implementasi e-Journal Menggunakan Open Journal System Pada Journal of Information Technology and Accounting (JITA)" this study discusses the design and implementation of the Open Journal System in the Journal of Information Technology and Accounting (JITA) so as to facilitate users in the process of submission and management from Call of Paper to Publication [20].

From the several literature studies obtained, it can be concluded that there have been many studies that have been carried out regarding the application of the Open Journal System as an e-journal media, especially in terms of its utilization, then its management and publication. Where in this study the focus on the iJC system (iLearning Journal Center) can be said as a forum for management and publication of journals or scientific papers that are useful online at universities and associations.

3. Results and Analysis

Open Journal System (OJS) is a journal management and publishing system with a very easy level of operation and can be downloaded for free and installed to local web providers. The Open Journal System (OJS) has been designed to reduce the time and effort devoted to writing and management tasks related to editing a journal while increasing the record-keeping and efficiency of the editing process and the source of solutions for being able to organize and publish scientific journals online. Open Journal System (OJS) is intended to improve the quality of scholarship and general quality in journal publishing through a number of innovations, starting from making journal policies more transparent to increase indexes.

However, the development of technology and information today is able to make journals of various kinds and is also the reason universities are required to provide a faster, more efficient, more effective and cost-effective information search facility. iLearning Journal Center (iJC) is a system that facilitates the management and publishing of journals online or commonly called e-journals, this system uses the Open Journal System (OJS) developed by PKP (Public Knowledge Project) in Open Source in the sense that it can be developed by anyone. iLearning Journal Center has a goal that Pramita University of Indonesia can publish journals online. Journal data management applied at Pramita University of Indonesia still uses the print media system in the process of submitting to publication so this raises several problems namely ineffective and inefficient, and the process of submitting manuscripts is also quite complicated because it requires coming to Pramita University of Indonesia and using forms.



Figure 4. Home Display ijc.ilearning.co

Figure 4 is the starting page on the iLearning Journal Center (iJC) web page where ordinary users or visitors can view the published journal in the iLearning Journal Center. Then visitors can visit journals from the iLearning Journal Center, which is as a partner, then can read the results of articles from each of these journals. An example is the Lens Journal from Universitas Pramita Indonesia, which is a journal client at the iLearning Journal Center.



Figure 5. Cover of the Lens Journal

Figure 2. Lens Journal, Journal of University of Pramita Indonesia, published 2 (two) times a year in March and September by the Research and Community Service Institute of University of Pramita Indonesia. In each issue of Lens covers three scientific disciplines in accordance with the Faculties available at the University of Pramita Indonesia, namely: Social Sciences and Political Science, Economics and Engineering.

System Flowchart

The system design method uses Flowchart. Flowcharts are used to determine certain symbols that will describe the sequence of processes in detail and the relationship between a process (instruction) with other processes in a program that contains procedures for using the system. The flowchart in this study is as follows:

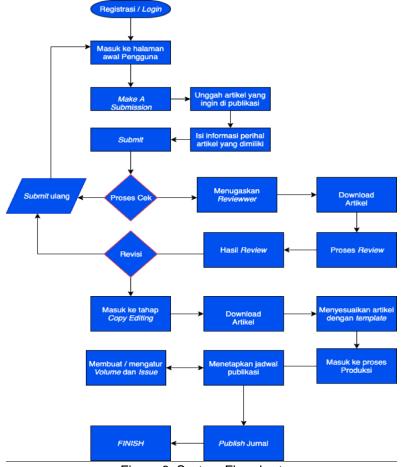


Figure 6. System Flowchart

The explanation for the flowchart from the submission process to publication in the picture above is as follows:

1. Registration/Login



Figure 7. Display Registration / Login

Author can login or register before proceeding to the submission of new manuscripts on the web ijc.ilearning.co.

2. Submission of new manuscripts

Beranda / Penyerahan	Open Journal Systems
Penyerahan	Make a Submission
Serahkan naskah baru atau cek naskah yang telah diserahkan.	Bahasa

Figure 8. Display submission of new manuscripts

If after logging in, the Author can submit a new script on the dashboard display with the file format, namely .doc.

3. Assignment to Reviewer



Figure 9. Assignment to Reviewer

After the Author has finished submitting the manuscript, the Journal Manager can submit an assignment to the Reviewer to conduct the first Review, namely Format Template, then the second Review, namely plagiarism and review on the writing.



Figure 10. Copyediting

The reviewer has done his job as a reviewer with the review process on the author article, then furthermore if the article has been accepted to be published then the Journal Editor can do the copyediting process in the journal.

Journal entry into Production



Figure 11. Production process and publication

Articles that have been finished copyediting then the next article is ready to be produced and included in the specified publication schedule.

4. Conclusion

As stated in the National Journal Accreditation Guidelines issued by Ristekdikti, journals are required to be managed electronically using an electronic journal management system (e-journal) such as OJS that has fulfilled the Journal Accreditation requirements stated in the RISTEKDIKTI circular regarding Accreditation of Issued Issued Periodical Scientific Year 2016 point 7, "Aside from being published in print (conventional) for the proposed scientific periodicals must have an electronic version of the publication, by submitting the address of the scientific periodical website". So that journals managed using the iJC digital platform can be said to be able to meet the criteria for the accreditation, especially in the adaptation of electronic journals to print journals more easily than print journals to electronic journals because basically journals that are managed electronically only need to take care of print ISSN's and print a journal using an electronic version that already exists. Based on the research above discussing the management and publishing of journals at the University of Pramita Indonesia still using conventional systems or manually in its management, therefore the iLearning Journal Center has the aim that the University of Pramita Indonesia can publish journals online with the conclusion of the above research is to make it easier for users to submit journals by using iJC can change the management of e-journals to be more distributed and can simplify the process of submitting manuscripts, review, edit, to the stage of publication and by using iLearning Journal Center will produce quality e-journals.

References

- [1] Q. Aini, U. Rahardja, A. H. Arribathi, and N. P. L. Santoso, "Penerapan Cloud Accounting dalam Menunjang Efektivitas Laporan Neraca pada Perguruan Tinggi," *Comput. Eng. Sci. Syst. J.*, vol. 4, no. 1, p. 60, Feb. 2019, doi: 10.24114/cess.v4i1.12051.
- [2] "2016, Pengguna Internet di Indonesia Capai 132 Juta." https://tekno.kompas.com/read/2016/10/24/15064727/2016.pengguna.internet.di.indonesi a.capai.132.juta. (accessed Feb. 22, 2020).
- [3] "Interaksi Dan Komunikasi Berbasis Teknologi Informasi Dan Komunikasi Dalam Pendidikan | Andiani | Jutisi: Jurnal Ilmiah Teknik Informatika dan Sistem Informasi." http://ojs.stmik-banjarbaru.ac.id/index.php/jutisi/article/view/232/218 (accessed Dec. 16, 2019).
- [4] W. Winarno, Y. Muhtadi, and M. A. Aldiya, "Application of Learning Management Using Non-test Instrument to Improve the Quality of Education," *Aptisi Trans. Manag.*, vol. 3, no. 1, pp. 46–56, Jan. 2019, doi: 10.33050/atm.v3i1.831.
- [5] A. Amrizal, "Pemanfaatan Open Jurnal System (OJS) Untuk Pengelolaan Jurnal Lumbung di Politeknik Pertanian Negeri Payakumbuh," *LUMBUNG*, vol. 17, no. 2, pp. 64–74, Jul. 2018, doi: 10.32530/lumbung.v17i2.36.
- [6] "Peran E-Journal dalam Knowledge Sharing sebagai Basis Pengelolaan Pengetahuan di Universitas Kristen Satya Wacana | Request PDF." https://www.researchgate.net/publication/312947817_Peran_E-Journal_dalam_Knowledge_Sharing_sebagai_Basis_Pengelolaan_Pengetahuan_di_Universitas Kristen Satya Wacana (accessed Feb. 22, 2020).
- [7] "• Number of internet users in Indonesia 2023 | Statista." https://www.statista.com/statistics/254456/number-of-internet-users-in-indonesia/ (accessed Nov. 02, 2019).
- [8] "Universitas Pramita Indonesia Wikipedia bahasa Indonesia, ensiklopedia bebas." https://id.wikipedia.org/wiki/Universitas_Pramita_Indonesia (accessed Jul. 27, 2020).
- [9] A. Kaba and C. K. Ramaiah, "Predicting knowledge creation through the use of knowledge acquisition tools and reading knowledge sources," VINE J. Inf. Knowl. Manag. Syst., vol. 50, no. 3, pp. 531–551, Jan. 2020, doi: 10.1108/VJIKMS-07-2019-0106.
- [10] T. O. Wibowo, "Strategi pengelolaan jurnal akses terbuka menggunakan open journal system (OJS)," *Berk. Ilmu Perpust. dan Inf.*, vol. 15, no. 1, p. 101, May 2019, doi: 10.22146/bip.38504.
- [11] "(No Title)." https://www.ristekbrin.go.id/wp-content/uploads/2018/01/Akreditasi-Terbitan-Berkala-Ilmiah-Tahun-2018.pdf (accessed Feb. 13, 2020).
- [12] "PERANCANGAN SISTEM INFORMSI E-JURNAL PADA PERGURUAN TINGGI BERBASIS WEB | Journal CERITA." http://ejournal.raharja.ac.id/index.php/cerita/article/view/685 (accessed Feb. 22, 2020).
- [13] N. Fajrin et al., Instalasi dan Implementasi Open Journal System di Local Area Network Laboratorium Telematika STEI-ITB. 2016.
- [14] U. Rahardja, I. Handayani, N. Lutfiani, and F. P. Oganda, "An Interactive Content Media on Information System iLearning+," *IJCCS (Indonesian J. Comput. Cybern. Syst.*, vol. 14, no. 1, p. 57, 2020, doi: 10.22146/ijccs.51157.
- [15] T. C. Krehbiel *et al.*, "The Journal of Effective Teaching an online journal devoted to teaching excellence," 2017. Accessed: Jun. 12, 2020. [Online]. Available: https://eric.ed.gov/?id=EJ1157450.
- [16] I. Handayani, E. Febriyanto, and F. P. Oganda, "PEMANFAATAN SISTEM IJC (iLearning

- Journal Center) SEBAGAI MEDIA E-JOURNAL PADA PERGURUAN TINGGI DAN ASOSIASI," *CSRID (Computer Sci. Res. Its Dev. Journal)*, vol. 11, no. 1, pp. 23–33, Feb. 2020, doi: 10.22303/CSRID.11.1.2019.23-33.
- [17] N. S. Rahayu Rais, R. (Ruli) Supriati, and S. I. (Siti) Danti, "Instalasi Open Journal System (OJS) Versi 3 sebagai Pendukung Kegiatan Pengelolaan dan Publikasi Jurnal Ilmiah," *Technomedia J.*, vol. 2, no. 2, pp. 66–80, 2018, doi: 10.5281/ZENODO.1325983.
- [18] U. Rahardja, E. Febriyanto, I. Handayani, and H. W. Ningsih, "PENERAPAN TEKNOLOGI OPEN JOURNAL SYSTEM SEBAGAI MEDIA PUBLIKASI JURNAL ILMIAH ELEKTRONIK BAGI PERGURUAN TINGGI NON IT DI TANGERANG," Dec. 2019.
- [19] I. Handayani, E. Febriyanto, and M. Shofwatullah, "Pengembangan Sistem Pengelolaan E-Journal Berbasis Open Journal System (OJS) 2.4.8 ke Versi 3.1.0.1," *SISFOTENIKA*, vol. 9, no. 1, p. 1, Dec. 2018, doi: 10.30700/jst.v9i1.422.
- [20] D. Sihombing, T. Waruwu, ... M. S.-(Journal of I. T., and undefined 2018, "Perancangan dan Implementasi e-Journal Menggunakan Open Journal System Pada Journal of Information Technology and Accounting (JITA)," *osf.io*, Accessed: Feb. 19, 2020. [Online]. Available: https://osf.io/3g9a4/download.

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