

## THE IMPLEMENTATION OF OPEN SOURCE ELECTRONIC MATERIALS FOR ACADEMIC PURPOSES

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### Abstract

The aim on making this article is know the implementation of open source electronic materials towards university students in their study. This article is one way to know that students are able to find, retrieve information that they need easily and the most important thing is the information is free of charge and it is very suitable to students. Most of the information or materials that students need can be found in the library and also at the websites but in the library they need to find manually and it may take time in searching the materials they need. By using website, some of them needed to pay if they need the information and the information that free in the websites are not fully give the information. As we mention, this article is very useful for students to make them know the open source electronic materials that are useful for them in study.

**Keywords:** open source electronic materials, open source, electronic materials,

### INTRODUCTION

Open access electronic materials is a system for publishing in which research materials is made available online at no cost or free to the reader. It is also users can customize it as much as they want. Powell (2008) cited that open source software has become prevalent in many applications, from server operating systems to scientific computing and high-end graphics. The cost of publishing the material is thus covered using a financial model other than subscriptions. These applications also give libraries or resources center and student's opportunities to check out research on a large scale than a library could afford. After all, expanding the base of knowledge is the main purpose of an academic journal. Digital publishing has made this module more feasible. There are open source electronic materials that have been known nowadays to make it flexible for those who are using internet in their daily life furthermore open source electronic materials are able to provide a service to users and cost savings for the students by utilizing this material. Open source electronic materials split up into few materials which are database, journals and reference materials. Reference materials includes book, dictionary, encyclopedia, almanac, maps, atlas, magazine, newspaper, handbook, biography and many other materials that are from printed becoming a non-printed and it can be used by the users free and available in the internet anytime as long as there are internet connection.

## ISSUES

Even though the open source electronic materials is free to be used by the students, but the information mostly are not exactly found when students find it. In this article, we identify several issues which is problem regarding on how open source that are able to access by the students freely, but they need of internet connection, lack of materials that are suitable for all types of students. Based on my observation from the previous study, there are still some limitations about the uses of open source electronic materials among university students.

The first issues is on how open source that are able to access by the students freely, but they need of internet connection. It is because, open source are available on the internet so students need to internet connection to get the information. If the electricity broke down, it may be a problem in their process of getting the information.

Other than that, the other issues in making this article is the skill in access the information for all types of students. In searching the information, students need to know on how they need to find the information. For example, the journal online on open source electronic materials that available but the students must know the ways to find the materials and make sure that the source or journals are one of the open source electronic journals.

In addition, open source electronic materials need to be maintained to make sure that system that they used are updated suitable with this era that information expanding every day.

## RESEARCH OBJECTIVES

- To helps students in finding information that they need by using open source electronic materials if they are not available to go to the library at the moments by access to the internet.
- To make students easy to retrieve information and use the open source electronic materials because the information in the open source electronic materials are many and available with free access.
- To give information to all types of students not only focuses on university's students but the student in primary school also can get the information using open source electronic materials.
- To expose students with the application of open source electronic materials that can be download to the computer or smartphone and can be use when there are no internet connection.

## RESEARCH QUESTIONS

- How open source electronic materials helps students in study?
- Is information in open source electronic materials difficult to use?
- The open source electronic materials available to all type of students?
- How effective open source electronic materials to university students?

## LITERATURE REVIEW AND PROPOSED FRAMEWORK

Based on the framework, our main topic is the implementation of open source electronic materials. In this paper we propose the research framework as shown in Figure 1. In this framework, we identify the variables from the discussion in chapter 2 which is literature review so we identify the dependent and independent variables. The dependent variables available in this paper is the implementation of Open Source Electronic Materials because it is the objective of the paper and it will depend on the independent variables which are the effectiveness of Open Source Electronic Materials and the usage of Open Source Electronic Materials. The effectiveness and the usage of open source electronic materials are become dependent variable because in the literature review in chapter two, we identify that most of the articles that we are using are discussing about the effectiveness and usage of open source electronic materials.

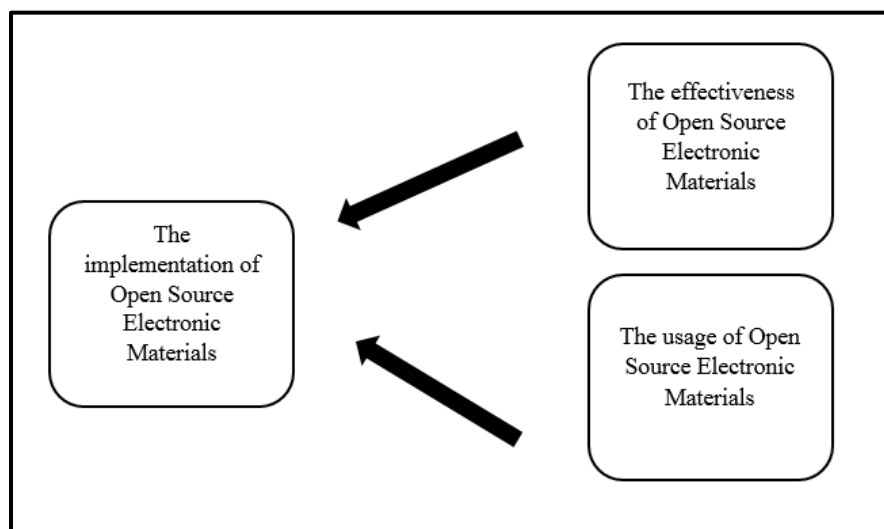


Figure 1: Proposed framework

## **Effectiveness of open source electronic materials**

The effectiveness of open source electronic materials means that either students can use open source electronic materials as a tools in making their assignment, task or in retrieve the information needed. For example, a students who are making an assignment, but then he or she do not want to go to the library to find the information he or she need, so he or she is trying using the other way which is searching the information that needed on open source electronic materials and he or she found out that the information on open source electronic materials is reliable and can be used to complete the assignment or task given.

Baich, (2014) said from her article that from previous study, lending requirements for open access electronic materials improved whereas all requests held steady. Because of the number of request of open source increasing time to time, Indiana University-Purdue University Indianapolis University Library can give serices that with cut cost to the user in order to utilizing this matter. The difficult things that users have in navigating after using the open source electronic material is to navigate with the others online information information such as interlibrary loan requests. The services of ILL will decreasing according to the expending of information in open source materials. That is said by Baich (2015), from the article that purpose of to investigating the interlibrary loan services and request for open access materials. Interlibrary loan are using by the students to borrow the books that they need in the other library if there are not available in their library. But then, when the open source electronic materials become famous, the ILL will no be not interested anymore to the students or users.

## **Usage of open source electronic materials in study**

The impact of open source electronic materials in study means that from the usage of open source electronic materials, students realize that open source electronic materials suitable for their study or not. For example, students are using a journal from open source electronic materials, and they found out that the way they used the information more useful because it can be used in short time, do not have to take time to go to the library and do not have to pay for the information. Other than that, students found out that their study even getting bad or worst when they are using the open source electronic material because when they have to deal with internet, their focus on study or task will affect to other thing for example to the social media such as Facebook, Twitter, Instagram, YouTube and any others.

Barlas(2015), from the previous article have a research on the open source. The aim of the article to provide an overview of open source (OS) data science tools recommended a classification scheme that can be used to study OS data science software. The data analysis from this study are conception extraction of knowledge from data and it is includes the various of elements and progress on approach in many elements that cointain many types learning aiming to extract value from data. The propose of this study is classification scheme is based on general characteristics, project activity, operational characteristics and data mining characteristics. The authors then use the

proposed scheme to examine the 70 identified of the Open Source Software. From this, the authors provide insight about the current status of the OS data science tools and reveal the state-of-the-art tools. From the article the author find out that the features of 70 OS tools are recorded based on the crarateristics of the four group characteristics, general characteristics, project activity, operational characteristics and data mining characteristics. The best results came from the analysis of these characteristics and are recorded in the article.

### ***Analysis Review***

Most of the previous article are about the open source software and the article are focuses on function, effect and others on the open source software mostly but in this research, we are making a research on the 21 century that the era increase well now as well as the information expanding and more impressive to the people nowadays. Along with the times and technology, people now can access to the internet everywhere to connect to the internet as long as they have internet connection. In contrast to our research, the research study on the implementation of open source electronic materials for academic purposes. This research are helping students to manage their time properly in order to use the information and also used internet in a proper ways. In addition, people nowadays are mostly lie to used internet in their daily life for example to access the information about everything and most of them are using internet to exposes themselves to the social media such as Facebook, Youtube, Instagram and other else. This research again can give many benefits to the students which they can know deeper about open source electronic materials and when they know about the usage and effectiveness of the open source electronic materials, they can get the information they need without wasting their time to go to the library and take time to find the information on the shelves.

### **EXPECTED OUTCOME**

The aim of this reaserch is to know the implementaion of the open source electronic materials for academic purposes. This article cover the previous in the usage of the open source and also the effectiveness of open source electronic materials itself. In the future the framework of the research will benefits devepmentation of open source elecctronic materials at university. The value of the implementation will make sure that the performance of the institution will benefits the students. While, library is also one of the place to find the information and knowledge so, in the future there will be as same library to the students to those who want to get and earn knowlegde for themselves and also for their studies. Besides that, university students will found out that open source are really helpful in accomplish their study because information that create in the open source are very good and it have the copyrigt that give the author authority of their works. On the other words, the information in the open source electronic materials are from a relevant sources that may give students useful information that are suitable with their studies. It is a commercial usage because of the low cost of the marketing and logistic services. With open source, it is the best implementation for the university

students. Throughout this study, we can make sure that university students will more attract to the open sources as we explain about the usage and effectiveness of open source electronic materials.

## CONCLUSIONS

This article summarize the previous article that re related to the topic that we have chosen which open source electronic materials is. So that, we have conclude that this article are suitable for the students not even in the university level, but also for the students that are from primary and secondary school to get it as their references or materials to get the information about the open source electronic materials. This research are explaining about the previous articles that related to the topic of the article which is the implementing of open source electronic materials for academic purposes. This research examine about the usage of open source electronic materials and also the effectiveness of open source electronic materials towards university students. Other than that, we are using the previous article that are from 2012 until 2016 because we want to make sure that our information is up to date regarding to the open source nowadays that will be more popular and will become a choose in students choices in their studies.

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