

# The Use of 'World Wide Web in Students' Learning of Tarbiyah and Teacher Faculty of IAIN Kendari

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Received: September 25, 2015 Accepted: October 28, 2015 Online Published: November 20, 2015

doi:10.5539/ass.v11n27p275

URL: <http://dx.doi.org/10.5539/ass.v11n27p275>

## Abstract

This Study aims at understanding what extent of the use of World Wide Web (WWW) in learning for students of Tarbiyah and Teacher Faculty of State Islamic Institute (IAIN) Kendari improve the students' learning achievement. The scope of the study is the use of WWW in learning for all subject of Tarbiyah Faculty students at IAIN Kendari. The Technique of Data Collection uses observation and Interview which are analyzed qualitatively. The subjects are the students of Tarbiyah and Teacher Faculty at IAIN Kendari, Southeast Sulawesi, Indonesia. The finding shows that the use of WWW in Students learning of Tarbiyah Faculty tend to use the Web Mail and Search Engine Service where the most access are Google and Yahoo. Various information needed in learning whether cognitive, affective, social integration or personal integration, can be accessed by WWW. But, the students cannot access the WWW maximally because of the limitation of Wi-Fi Connection service in campus.

**Keywords:** student learning, using of World Wide Web (WWW), cognitive, affective, social integration

## 1. Introduction

The information technology and communication in learning today become the tangible challenge in education side, especially in learning technology. In a row of increasing human resources in globalization era, the changing of technology is also more sophisticated, one of them is the present of Internet as a media of communication and information. Internet is communication and information technology development to ease people to access information from various countries in the world. Internet also is as inter-connection networking because it globally becomes the computer networking in international scale. The development of computer technology and internet become potential support in learning. Various products and applications showed by internet can draw attention of society in the world, one of them is WWW.

World Wide Web is group of multimedia document which is connected each other by using hypertext link. By click hyperlink, we can move from one document in one site to another. We can also access much information not only in a text form but also in picture, video, audio, and animation form (Sakur, 2003). The World Wide Web-based learning have many advantages, one of them time management is more effective, the learning material is easier to access, interesting and lower cost (Sutrisno, 2011), World Wide Web today is rapidly developed in various kind of human life. Its advantage can influence the whole of human life, from social side, economic, military, education and technology (Mikhailovna et al., 2015). Even the information from the entire world can be accessed by World Wide Web.

IAIN Kendari is one of the Islamic State Institute in Kendari of Southeast Sulawesi which has internet service facility in campus. This service can be accessed in mostly building in campus area. This campus always tries to serve many students aspiration to build the internet network. IAIN of Kendari have four faculties, they are Tarbiyah and Teacher Training Faculty, Ushuluddin Faculty, Adab and Dakwah Faculty, Syariah and Law Faculty, Economic and Islamic Business Faculty. Based on the pre observation, the students of Tarbiyah and Teacher Training Faculty completely used the internet as a basic source in their learning and some of them used the textbook at the library. It can be seen from the interview result; most of students access the internet network which is available at campus. They can access it by smartphone, tools of mobile phone such as laptop/notebook, PDA (Personal Digital Assistant) and PC (Personal Computer), even facilitated by Wi-Fi technology

(wireless-fidelity). The existence of internet network in IAIN area is expected to increase and wide the students' knowledge of education and their creativity in learning.

## 2. Literature Review

### 2.1 World Wide Web Facility

Today, the Internet is the most sophisticated media and information sources, because this technology offers a range of ease of access, accuracy, speed and the ability to provide different information needs of everyone, anytime, anywhere and at any level. A variety of information can be retrieved via the internet, such as jobs field, sports, the arts, shopping, travelling, health, games, news, communication through email and chatting, even scientific articles in various scientific disciplines, and many more. Almost all areas of humans need, of any kind, can be searched via the internet (Abraham, 2010).

There are some kinds of WWW service, as follows:

- Mail Service

It is One of the most widely service used by people, and to be able to send email each other we need to have a certain email account.

- Search Engine

By using search engine, we will quickly find the address of the site that contains the information we need. Such as search engines site: [www.google.com](http://www.google.com), [www.yahoo.com](http://www.yahoo.com), and others.

- Web Hosting

It is used as free web hosting services are offered on the internet. Such as; [www.geocities.com](http://www.geocities.com), [www.coolfreepages.com](http://www.coolfreepages.com), [www.lonex.com](http://www.lonex.com), etc.

- Portal

Portal is the web site which offers many services, in the real world we know mall or plaza, which provides all that we need while shopping, then in cyberspace is also facilitated. Such as: [www.yahoo.com](http://www.yahoo.com), [www.astaga.com](http://www.astaga.com), and others (Wanda, 2015).

Besides several types of services above, there are also many sites that can be accessed via the World Wide Web, some of them are Google, yahoo, MSN, Bing, ASK, etc.

### 2.2 The History of World Wide Web

The history of Web began at the European Laboratory for Particle Physics (known as CERN), in the city of Geneva, close to the border of France and Switzerland. CERN is an organization founded by 18 countries in Europe. In March 1989. The website was first discovered by Sir Timothy John Berners-Lee Team, while websites that connect with the network first surfaced in 1991. The goal of the team in designing a web site is to facilitate the Exchange and update information on fellow researchers at their place of work. Then on April 30, 1993, CERN announced that the WWW can be used freely by the public (Nanda, 2013).

In 1994, CERN and MIT established a consortium called the World Wide Web Consortium (W3C) which served to establish standards for Web technologies. W3C is a consortium of a number of organizations with an interest in the development of various web-related standards (Hidayat, 2011).

### 2.3 Students Information Needs

Learning is an instructional system that refers to a set of components that are interdependent of each other to achieve the goal. The learning includes some components, such as objectives, materials, learners, teachers, methods, evaluation and situation (Ahmadi et al., 2011).

Related to the environment that encourages the emergence of those needs, particularly with regard to a person who is exposed to various reservoir media of information (sources of information), then a lot of needs that could be addressed, such as proposed by (Katz, Blumler, & Gurevitch, 1974 in Egede Andrew, 2013) As follows:

- Cognitive needs

This need is closely related to the need to strengthen or add information, knowledge and understanding related to someone life and its environment.

- Affective Needs

This needs associated with strengthening the aesthetic, things that can be fun, and emotional experiences. Variety of media whether it is printed or electronic, often used as a tool for the pursuit of pleasure and entertainment.

People buy a radio, television, watching movies, reading books and light reading with the purpose to entertain.

- Personal integrative needs

This need is often associated with strengthening the credibility, confidence, stability, and individual status. This need comes from the desire to find one's self esteem.

- Social integration needs (social integrative needs)

This needs associated with strengthening relationships with family, friends, and everyone else in the world. These needs are based on a person's desire to join or sharing with others.

Internet in the information era has established itself as one of the centers of information that can be accessed from many different places without limited by space and time. It is becoming the alternative choice in searching information beside library (Mukhtar & Iskandar, 2010).

### **3. Research Methodology**

#### *3.1 Design of the Research*

The design of this research is a qualitative research that aims to solve actual problems that arose today. After collecting the data or information, they are organized, described, and analyzed for the purpose of understanding and interpretation about the meaning of the phenomenon obtained relatively in the field. The phenomenon in this research is about the use of the WWW in the fulfillment of the information needs of student learning and teacher training faculty of Tarbiyah IAIN Kendari.

#### *3.2 Research Instruments*

The research instrument is a researcher his self. The researcher analyzed and described the facts that exist in the field. In the process of data collection, the researcher also uses the tool as a supporting instrument i.e. a small notebook and recorder to record of the results of the interview.

#### *3.3 Source of Data*

In qualitative research, researcher exits certain social situations, doing observation and interviews to people who know about particular social situations. For the data source, the researcher used snowball sampling technique which is one form of purposive sampling (samples according to your needs): with a decisive one key informant first then specify the other supporting informant, as the author (Usman, 1995) said that the participant in qualitative research methods are evolving continuously until the data collected was considered satisfactory.

There are two kinds of source data used in this study, they are, primary data and secondary data. Primary data is obtained from the first source; in this case the students of Tarbiyah and Teacher Training Faculty of IAIN Kendari from 2013 - 2014. The participant in this study 24% or 70 students from 293 the total number of students. The data of the secondary data source that is obtained through the document material in this case the researcher does not directly take the data itself but researching and utilizing data or documents produced by other parties. A secondary data source means to give an overview of enhancements, complementary picture about the "use of the WWW in learning of students Islamic studies of Tarbiyah and Teacher Training Faculty of IAIN Kendari".

#### *3.4 Technique of Data Collection*

There are two techniques applied in this study, they are:

- Observation, which is organized carefully against conditions that are examined directly in the field. In this case, the researcher observes students of Islamic education studies (PAI) who have used the WWW.
- Interview, a method used by researcher to hold a question and answer to the informant (Students of Islamic education studies) is deemed to know the issues that will be discussed.

#### *3.5 Technique of Data Analysis*

Technique of data analysis in this study used qualitatively data analysis by Milles and Huberman model in (Sugiono, 2009), they say that: the analysis is composed of three strands of activities that occur simultaneously, in the following ways:

- Data reduction is defined as the process of research, the framers attention on simplification, abstraction and data transformation "rough" that emerged from the written in the field.
- Data display i.e. gobs of structurally information which gives the possibility of withdraw of conclusions and taking action.

- Conclusion or verification from the beginning of data collection, qualitative analysis began searching for the meaning of objects that record the regularity, the patterns, the explanation, the configuration may be causal flow and proposition.

It means that the collected data was analyzed based on certain stages i.e. observing patterns of individual actions that are considered important so as to produce a description/explanation, then identifies and subsequent research results will be interpreted through descriptive explanations regarding the use of the WWW in learning of Islamic studies and teacher training students of Tarbiyah Faculty of IAIN Kendari.

#### 4. Results

##### 4.1 Using World Wide Web Service as Learning Information

In the World Wide Web, there are various kind of services available with different functions, such as web mail service that is used for mutual exchange of information via e-mail, search engine to search for information by typing in keywords of the searched information to be searched, web hosting to make private or group web and the portal as a service that provides information services sales of goods via online (online shop).

Various types of such services have been widely used by the internet users from either among students, as well as the general public. However in practice, the students of Tarbiyah and Teacher Training Faculty of IAIN Kendari have not been maximal in using internet yet, in other words, they only use one or two of these services, as expressed by a participant:

*"I used to use Web Mail because it is one of the demands of the current academic needs between students and lecturer who used email. I also often use search engine for tool in finding references. (Participant 43, on January 13, 2015)"*

Students of Tarbiyah and Teacher Training Faculty used some of the services available in the WWW service due to ignorance of the other. Some of them used Web Mail and Search Engine in the fulfillment of the needs of the information.

In addition to the various services, there are also many sites in the WWW can be used in retrieval information, i.e. Google, Yahoo, AltaVista and others with the own function. By the existence of these sites, participants could operate the WWW and get to know the Web well, although the participant initially had to go through the learning process first. However, not all users of the WWW audience know about these sites, as an expression of the following participant:

*"I often open up Google and Yahoo! because they have fast connection, it looks good also, as well as any information we want are available on Google. (Participant 46, on 17 January 2015)"*

Based on the interview above, we can see the summary of student utilization of Wi-Fi in their learning and getting information in other site or in social media.

Table 1. Students utilization of World Wide Web in learning

No.	The using of WWW in Learning	Always	Often	Sometimes	Never	Total
		4	3	2	1	
1.	Web mail	40	14	13	3	70
2.	Search engine	5	8	32	25	70
3.	Google	54	12	4	0	70
4.	Yahoo	51	13	6	0	70
5.	AL vista	4	3	6	57	70
6.	Surfing internet	34	22	5	9	70
7.	Web hosting	39	16	8	7	70
8.	Portal	11	9	21	29	70

##### 4.2 The Using of World Wide Web Based on Students Need in Learning

The development of the World Wide Web is as result of accessing its need. It has already started to grow in the community; the development of World Wide Web has become a regular thing for people who want to obtain information using the internet as an alternative to obtain information except books and other information media. The availability of the internet determines a person's habits in accessing World Wide Web. IAIN campus Kendari has been providing the facility; this allows students to access the World Wide Web so that students could use his spare time to surf the internet while on the campus with the intensity of a particular time. In accordance with the

expression of following participant:

*"In a day, I usually surfing for an hour, to complete the task, if I have many subjects then I can't access www. (Participant 56, on 16 January 2015)"*

Related to students' need, one participant states that,

*"WWW plays an important role in fulfilling the information needs of my learning because of the ease in finding information related to the learning materials, references that come from different parts of the world. The information that I often find is related cognitive needs regarding academic information about lessons or courses and info about the contest or the festival because it can expand insight. (Participant 50, on 19 January 2015)"*

From the statements above, DeBell in author (Abraham, 2010) from The Education Statistics Services Institute (ESSI) the use of the internet by website facility can improve the quality of people life everyday and increase their job market prospects because this technology has the potential for improving to access information, help complete the lecture task better and faster, and as a medium of communication.

In accordance with acknowledged one participant said that:

*"Through the website all the information can be gotten, all the information in the world. So many information, such as academic information or related to science, music, infotainment and religion side. Even the internet also provides a software or application that can be downloaded, for example, digital Qur'an, and so on. In addition, there are many social networks such as Facebook, twitter, etc. They can be used to interact with others or find new acquaintances and can also be used as a place for expressing feelings or what we think, as a medium to convey the goodness to other people especially in the field of Islamic studies (Participant 52, on 16 January 2015)"*

Table 2. The summary of using www based on the students need

No.	Students need	Always	Often	Sometimes	Never	Total
1.	Cognitive	43	22	3	2	70
2.	Social Integration	24	19	15	12	70
3.	Affective	31	24	3	12	70
4.	Personal Integration	36	28	4	2	70
5.	Entertainment	39	26	2	3	70

## 5. Discussion

The aims of this study to describe students' utilization of World Wide Web in learning. Based on the research result, the use of the WWW is one of the activities performed during students' search of the information needed to lecture or assignments to other learning information needs. As we know that the internet today's has opened a source of information, it became accessible easily and not be a problem anymore. The Internet allows users to be aware of a variety of information including up to date from various parts of the world easily and quickly.

There are many provider services in internet but some of students still have limited information of website. The Google and Yahoo website are mostly used by the students. They used of these website because of many advantages of service, such as email and data protection. Like the author (Mikhailovna et al., 2015) described that Companies Microsoft, Google, Sales force and other providers of access services to the cloud environment can implement a variety of services and security technologies; concentrate the efforts of the best employees on the planet for this purpose. Companies like Google, Microsoft and Sales force are able to provide data protection services to their customers who use Gmail and Google Docs.

In fact, the students, in accessing the internet through World Wide Web, have many challenges. One of them is the lack of available facility of WiFi network in campus are. So, they need to the other place to find network accessing in limited time. As we know that, through searching in internet, the students can get broad information.

Some of the respondents still give priority to the use of the World Wide Web to meet the cognitive needs related to the tasks which they have acquired in lectures or about other common knowledge. So that with a wide range of information available in the World Wide Web extremely helpful student or academia in meeting academic requirements. A cognitive need is closely related to the need to strengthen or add information, knowledge, and understanding someone is going to its environment (Katz, Blumler, & Gurevitch, 1974).

In addition to affective requirements, based on the result, students are also trying to meet the needs of other

information via the World Wide Web as the needs of social integration by creating an account on social networks. It is used to interact with other people, entertainment, looking for entertainment in the form of downloadable music, movies, reading news. To meet the needs of personal integration, they use social media such as showing the existence of self by updating a status or a photo in the social Web. The using of World Wide Web is also as a medium of instruction to utilize advances of technology for the benefit of education and as a existence form in the field of Islamic studies and teacher training science. Related to those finding based on the research result of the author (Andrew, 2013) the social media network is a significantly veritable information source for business investors in Nigeria, 94% of surveyed who accepted having used the social media to meet their need. It can be seen the social media network not only meet the students' need in education field but also meet the business information source for all businessman.

## 6. Conclusion

The use of the WWW has the ability to facilitate the various needs of students in accessing information. From learning facilities are used and the types of information that are accessible. It is proved that the students of Tarbiyah and teacher training faculty generally has creativity in the processing of information technology and particularly the WWW. The research results showed that the use of WWW in student' learning are more likely to use Web Mail service and Search Engine. Because of the limited tools of Wi-Fi, they only have limited information of internet service. The access site is only limited to Google and Yahoo because up to now they've been learning information needs the can be found through those sites. In addition to ignorance about other sites, this becomes a constraint so that it is not used. WWW, first present in the world of education, is as one source of information for the students besides libraries, newspapers, magazines, television and so on. The presence of the WWW adds insight information, whether formal or non-formal from different types of information needs (cognitive, affective, social integration, the integration of personal and entertainment), all can be fulfilled through WWW.

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