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Evaluation of the Adoption and Use of Integrated Library Management Software in Selected Private University Libraries in Osun State, Nigeria

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EVALUATION OF THE ADOPTION AND USE OF INTEGRATED LIBRARY MANAGEMENT SOFTWARE IN SELECTED PRIVATE UNIVERSITY LIBRARIES IN OSUN STATE, NIGERIA

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ABSTRACT

University libraries are expected to provide information resources and services to support the teaching and learning process of their institutions. For university libraries to deliver quality services, they are expected to continuously adapt to the changing institutional and global environments and requirements in use of current technologies to manage most or all library activities, particularly use of Integrated Library Systems (ILS). Furthermore, in the university libraries where ILS have been deployed, there is a need to carry out periodic evaluations of the systems. Hence, this study evaluated the adoption and use of integrated library software (ILS) in some selected private university libraries in Osun State, Nigeria.

Descriptive and correlational survey research design was adopted. The population comprised undergraduates and library staff of Adeleke University, Fountain University and Redeemers University. Slovin's formula was used to arrive at 384 as the target sample size of the undergraduates, while total enumeration was used for the sample size of the library staff since the population was small. Questionnaires were used for data collection. The data collected from the field were coded and analysed using the Statistical Package for Social Science (SPSS) software.

The findings revealed that majorities of the surveyed students were satisfied with the services provided through the ILS, except at the Adeleke University. Similarly, most of the students found the ILS easy to use and useful, the students except for the students of Adeleke University who were indifferent about the services, due to the fact that they were not using the services provided by ILS. This finding confirms that when selecting or upgrading software in libraries, the perceived usefulness and perceived ease of use should be main considerations. Finally, the study identified erratic power supply, lack of enough user education on the use of ILS services, internet network issues, lack of technical know-how, lack of technical facilities, and lack of training and re-training of staff as the major challenges faced by students and staff when using the ILS.

It was recommended that the management of Adeleke university library should improve on creating awareness among the library users for them to understand the importance of using the deployed ILS services. It was recommended that system deployment experts should be always consulted in order to configure deployed ILS modules to be user friendly.

Keywords: University libraries, Integrated Library Management System, Library service evaluation, Private universities

INTRODUCTION

A university library serves two complementary purposes of supporting the institution's teaching and learning curriculum, and supporting the research by the faculty and students. Omeluzor, et. al. (2012) stated that "the pursuit for excellence in all aspects of a university educational system made it imperative for universities around the world to rise up to their responsibilities". For a university library to deliver prompt and adequate services to the clients that will help in supporting the teaching, learning and research activities of its parent institution, it must continuously adapt to the changing institutional and global environments and use of current technologies to manage most or all library activities.

The ongoing rapid developments of Information and Communication Technology (ICT) has brought a lot of challenging issues to university systems and the academic libraries that support the systems). Libraries now understand the need to move from their traditional means of providing information to using integrated systems and networked operations. Recent trends in the information profession have also obligated academic libraries to embrace automation as a means of improving their service delivery to their clientele (Ukachi, Nwachukwu, and Onuoha, 2014). Lubanski (2012) defined automation as "the use of machines or technologies to optimize productivity in the production of goods and delivery of services". In order to achieve effective library automation, some of the university libraries are making use of home developed library software for individual library operations such as acquisitions, cataloguing or circulation control. Most common these days however is the use of integrated library management software to perform the various routine activities. Tella and Oladeji (2017) observed that Integrated Library Software (ILS) is an automated library system that is capable of managing the operations of many library functions.

In choosing ILS software, libraries must base their decision not only on the performance and efficiency of the system, but also on the ability of the software to enhance the productivity of the library (perceived usefulness), free of challenge when put into use (perceived ease of use), system quality, information quality, service quality, user satisfaction and challenges that might be encountered.

PROBLEM STATEMENT

The use of Integrated Library Software in the university libraries has clearly changed how the libraries are providing their various services to the users. For university libraries that have adopted and used a particular integrated library software, prompt evaluation of the software is expected in order to examine whether the software has been able to perform the task it was set out to achieve. Perceived usefulness, perceived ease of use and the challenges of the software are key in evaluating the software. Nevertheless, from the perspective of the entire university system of a country such as Nigeria, the choice, implementation and experiences of ILS by a university library usually needs to be researched periodically to answer some crucial questions. Finding answers to these questions requires a comprehensive system evaluation of the use of ILS in the universities. Evaluation of ILS is pivotal to ensure that the software is able to assist the university libraries to achieve their operations effectively and efficiently. Perceived usefulness and perceived ease of use are two constructs of Technology Acceptance Model (TAM) that can be used to determine whether the ILS is performing optimally.

Also, there have been several studies on the adoption and use of integrated library software (ILS) (Omeluzor, et. al., 2012; Uzomba, 2015; Kumar and Jasimudeen, 2012; Mulla and Chandrasekhara, 2010), but little studies have been done on the evaluation of ILS using the two constructs of Technology Acceptance Model (TAM). It is against this background that this study was set out to evaluate how ILS are being used and experienced in some selected Nigerian university libraries.

OBJECTIVES OF THE STUDY

The main objective of this study is to evaluate the adoption and use of integrated library software (ILS) in some selected private university libraries in Osun State, Nigeria. The specific objectives are:

- i. examine the perceived usefulness of ILS in the selected private university libraries from the perspectives of library users;
- ii. examine the perceived ease of use of ILS in the selected private university libraries from the perspectives of library users;
- iii. assess the level of user satisfaction with the services provided to them through the ILS in the selected private university libraries;

- iv. find out the challenges being faced by the library users in the use of ILS in the selected private university libraries;
- v. identify strategies being used or planned to overcome the challenges being faced in the selected private university libraries;

LITERATURE REVIEW

According to Fabunmi (2002), a university library is an organized collection of information resources (print and non-print) which form an integral part of a tertiary institution. In essence, a university library provides resources to support the teaching and research activities of the parent institution. From the perspective of a university library as a building, Ogbuiyi and Okpe, (2013), defined university library as a place where academic information sources are acquired, organized, processed, stored and made available to meet the information needs of the students, teachers and other members of the university community.

The quality of the university library facilities is an important component in the reputation of the university. This can be seen from the study conducted by Ogunrombi (2003) on appraisal of status of library stock in Nigeria Universities Commission (NUC) the superintending agency for the Nigerian university' system. The Professional librarians on NUC's accreditation teams formed the accreditation team and they evaluated library stock in subject disciplines using the following criteria: quality (volumes), 'student. Population (users) and the currency of stock. The study details the accreditation status of subject disciplines in the first-degree programmes of most universities that were denied accreditation especially in the sciences because of poor library stock. Ajibero (2004) argues that if during accreditation exercise most university libraries scored less than 70%, while other components scored 100%, that programme will not get full accreditation

Hussaini, et.al. (2017) defined library services as those facilities in the library that enables librarians to perform their task diligently by providing clienteles with the readily available information at the right time and place to enable them to satisfy the information needs of the user. In order to provide effective library services, there is a need for periodic evaluation of these services.

Within the context of the library, Ogunrombi (2012), defined evaluation as the process whereby library systematically collect and analyse information about students' perceived use of libraries by using evidence (testing), numerical values to the evidence (measurement), and using the results to

make decisions (assessment). From the general view and library perspective of evaluation, it can be deduced that evaluation is majorly concerned with assessment of the level at which a service has been able to achieve its set objectives. Libraries have now embraced the modern ways of rendering effective library services through the use of integrated library management software.

Kumar, (2013) defined an integrated library software as a system of keeping track of the operations of a library payroll, expenses, purchases, and most importantly, keeping track of the various media being checked out by the librarians. Omeluzor, et al. (2012), opined that integrated library software is designed to enhance all library routine activities as expected by the library users. A good and reliable ILS enhances management, control and easy access to information resources that are physical in a library and outside, for example, books, CD ROM, e-journal, e-books, e-databases, and repositories, among others. It also helps to reduce time wastage in the delivery of services to the library users. According to Breeding, (2012), Integrated Library System, or ILS, provides computer automation for all aspects of the operation of a library. These products are generally organized into modules that address specific functional areas. These modules include acquisitions (ordering, receiving and invoicing materials), cataloguing (classifying and indexing materials), circulation (loaning materials to patrons and receiving them back), serials (tracking magazine and newspaper holdings) and OPAC (public interface for users). The early generations of integrated library management systems were not user friendly and interactive. This made it difficult to use by library staff, though they were more efficient than the paper systems libraries had been using for generations. (Kinner & Rigda, 2019).

Ashikuzzaman, (2014) commenting on the advantages of an integrated library system opined that ILS helps to eliminate duplication of efforts of creating and maintaining multiple copies of bibliographic records, reduction in errors as a result of entering of records once and that library staff and patrons can have access to all pertinent information at one location in an integrated library system. It is worthy of note that even as enormous as the benefits that can be derived from the use of integrated library management systems in libraries, the process of the successful implementation of these systems is faced with many challenges. Mishra, Thakur and Singh (2015) highlighted some of these challenges to include lack of proper planning, sound budget, lack of awareness of standard format, and lack of skilled or trained manpower.

Tella and Oladeji (2017) focused on Empirical investigation on impact of Koha on library services in selected academic libraries in Nigeria. The population of the study comprises professional and

paraprofessional librarians in Ladoke Akintola University, University of Ilorin, Redeemer University, Adeleke University and Bowen University. The study showed that Koha has favourably impacted their libraries. Some difficulties encountered in implementing Koha were inadequate infrastructure and financial constraints. Uzomba et al. (2015) study on The Use and Application of Open-Source Integrated Library System in Academic Libraries in Nigeria: Koha Example. The purpose of the study was to examine the use of open-source integrated library systems in academic libraries in Nigeria, with the aim of highlighting the capabilities and potentials of open-source software (Koha) and its practical importance to academic libraries across the globe. The population of the study comprises twenty-five (25) staff selected randomly from 25 different higher institutions that use open-source software in Nigeria: 19 universities (federal, state and private), 4 polytechnics (federal and state) and 2 colleges of education. The result of the findings shows that many libraries in Nigeria and across the globe have turned more and more to free and open-source software. The major challenges confronting the libraries include: inadequate funding, inadequate managerial support, inadequate power supply, etc.

Ossai-Ugbah (2010) conducted a study on the impact of automated library services and usage on student's academic performance in Nigerian Universities. The purpose of the study was to examine the level at which use of automated electronic information services by students has influenced the academic performance of students in three tertiary institutions in Nigeria: University of Ibadan, Covenant University, Sango Ota and Ladoke Akintola University of Technology, Ogbomoso. The findings of the study show that students who use automated library services perform excellently well in academics better than those who did not make use of the services offered by an automated library. A large percentage of the users agreed that there is a significant correlation between educational academic exposures with the use of the automated library services, and also they derived satisfaction in the use of automated electronic library services. However, some of the major challenges encountered when using the automated library services were slow internet speed, no access to the automated library facilities when needed.

Akpokodje and Akpokodje (2015) in their study on Assessment and Evaluation of KOHA ILS for Online Library Registration at University of Jos, Nigeria. The purpose of the study was to evaluate the adoption of KOHA ILS for library online registration at the University of Jos Nigeria. The findings of the study show that KOHA was selected at the library out of necessity and not fully

planned for. It further enumerated the prospects and challenges faced by the staff involved in the registration processes. The survey also found that open-source ILSs are more cost effective than proprietary ILSs.

METHODOLOGY

The descriptive and correlational survey research design was employed for this study. The population of the study comprised all undergraduate students of Adeleke University, Ede (1,550); Redeemer's University, Ede (2,500); Fountain University, Osogbo (1,455). In determining an adequate sample size, the study adopted Slovin's formula (1967) as cited by Singh and Masuku (2014) for calculating sample size of known target population. Based on this formula, the sample size of the study was 384 respondents from the selected private universities. The study used quantitative methods and instruments for data collection. The data collection instrument that was used for this study was: a structured questionnaire for the students. Data was collected by personal administration and retrieval of copies of the questionnaires to respondents by the researcher. Data collected from the field was coded and analysed using the Statistical Package for Social Science (SPSS) software.

DATA ANALYSIS AND DISCUSSION OF FINDINGS

What is the perceived usefulness of ILS in the selected private university libraries from the perspectives of library users?

Perceived Usefulness of ILS in the selected institution libraries from the perspective of library users

Perceived Usefulness	A	deleke Un	iversity (I	N = 108	3)	F	ountain U	Jniversity	(N=65)	5)	Redeemer's University (N = 167)					
	A	U	D	$\overline{\mathbf{x}}$	STD	A	U	D	$\overline{\mathbf{x}}$	STD	A	U	D	$\overline{\mathbf{x}}$	STD	
The Library ILS allows me to easily connect with the library from	30	58	20	3.23	0.947	55	4	6	4.11	0.928	105	41	21	3.73	1.132	
anywhere, anytime.	27.8%	53.7%	18.5%			84.6%	6.1%	9.2%			62.8%	24.6%	12.6%			
The Library ILS helps me to search for needed information materials on the	46	48	14	3.46	0.951	55	8	2	4.17	0.747	135	25	7	4.16	0.848	
OPAC	42.6%	44.4%	12.9%			84.6%	12.3%	3.1%			80.8%	15.0%	4.2%			
The Library ILS gives me access to e- resources relevant to my	39	57	12	3.42	0.929	55	8	2	4.16	0.739	131	23	13	4.12	0.990	
programme/course	36.1%	52.8%	11.1%			84.6%	12.3%	3.1%			78.4%	13.8%	7.8%			
The Library ILS allows me to quickly speak to and get help from the	38	51	19	3.28	0.905	51	10	4	4.07	0.814	111	38	18	3.83	0.988	
librarians concerning the library materials and services that I need from time-to-time needs	35.2%	47.2%	17.6%			78.5%	15.4%	6.2%			66.4%	22.8%	10.8%			
I can make book reservation on the	44	49	15	3.38	0.980	55	6	4	4.11	0.857	81	58	28	3.42	1.111	
library ILS from anywhere, anytime	40.8%	45.4%	13.9%			84.6%	9.2%	6.1%			48.5%	34.7	16.8			
I get notifications of newly acquired information materials in the library	32	52	24	3.21	1.259	45	15	5	3.91	0.955	69	54	44	3.28	1.303	
through the ILS	29.6%	48.1%	22.2%			69.2%	23.0%	7.7%			41.4%	32.3%	26.4			
I can renew loan materials on the	40	47	21	3.34	1.081	45	13	7	3.87	1.039	94	50	23	3.61	1.159	
library ILS	37.0%	43.5%	19.4%			69.2%	20.0%	10.8%			56.3%	30.0%	13.8%			
I get to loan out information materials	31	54	23	3.27	1.100	42	14	9	3.70	1.079	77	68	22	3.52	1.136	
through the library ILS	28.7%	50.0%	21.3%			64.6%	21.5%	13.8%			46.1%	40.7%	13.2%			
I return loan information materials through the library ILS	30 27.7%	52 48.2%	26 24.1%	3.18	1.026	44 67.7%	10 15.3%	11 16.9%	3.78	1.119	76 45.5%	64 38.3%	27 16.2%	3.44	1.152	
The library ILS enhances my	31	56	21	3.24	0.991	50	9	6	4.03	0.975	112	33	22	3.81	1.187	
effectiveness in book searching	28.7%	51.9%	19.5%			76.9%	13.8%	9.2%			67.0%	19.8%	13.2%			
I often gain access to important sites on the Internet and the Web through	32	41	35	3.01	1.095	53	8	4	4.16	0.846	109	35	23	3.80	1.095	
links provided by the ILS	29.6%	37.9%	32.4%			81.5%	12.3%	6.2%			65.2%	21.0%	13.8%			
I derive good benefits from using the ILS to gain access to the ILS or	26	47	35	2.94	1.080	55	7	3	4.14	0.833	101	46	20	3.76	1.097	
catalogues of other libraries	24.1%	43.5%	32.4%			84.6%	10.7%	4.6%			60.4%	27.6%	12.0%			
The quality of the e-resources I can access when I use the ILS is better	26	36	46	2.79	1.071	50	10	5	4.03	0.942	85	54	28	3.48	1.113	

than the quality of the e-resources I usually get when I search the Internet directly	24.1%	33.3%	42.6%			76.9%	15.3%	7.7%		50.9%	32.3%	16.8%		
Weighted Mean	= 3.21				<u>'</u>		= 4.02		= 3.69					

Key: A = Agreed, U = Undecided, D = Disagreed, $\overline{X} = Mean$, STD = Standard Deviation

Based on the findings it can be inferred that the students from Adeleke University are undecided about their perception of the Usefulness of ILS. This could be as a result of most of the students not haiving to make use of the library services provided by the ILS. Therefore, it becomes difficult for them to assess how useful they perceive it to be. However, the students from Fountain and Redeemers University showed a positive perception of the usefulness of ILS in the selected library. This is because they are seen to have used most of the library services provided by the ILS for several activities. The students from the both institutions perceived that the ILS was useful as it; helps them to search for needed information materials on the OPAC, gives them access to e-resources relevant to their programme/course; allows them to quickly speak to and get help from the librarians concerning the library materials and services that they need from time to time, enhances their effectiveness in book searching, give opportunity to make book reservation from anywhere and anytime at the ILS, and several other usefulness.

What is the perceived ease of use of ILS in the selected private university libraries from the perspectives of library users?

Perceived Ease of Use of ILS in the selected institution libraries from the perspective of the library users

S/N	Perceived Ease of Use	Adeleke University (N = 108)					F	ountain U	Jniversity	(N = 65)	5)	Redeemer's University (N = 167)					
		A	U	D	$\overline{\mathbf{x}}$	STD	A	U	D	$\overline{\mathbf{x}}$	STD	A	U	D	$\overline{\mathbf{x}}$	STD	
1.	The user interface of the ILS is	39	51	18	3.46	1.088	55	5	5	4.06	0.847	130	30	7	4.07	0.841	
	user-friendly	36.2%	47.3%	16.6%			84.7%	7.7%	7.7%			77.8%	18.0%	4.2%			
2.	I find it easy to get locations of	35	46	27	3.05	0.980	52	9	4	3.97	0.847	117	44	6	3.97	0.790	
	information materials through the																
	OPAC	32.4%	42.6%	25.0%			80.0%	13.8%	6.1%			70.1%	26.2%	3.6%			
3.	The ILS is flexible	27	66	15	3.24	0.849	52	8	5	3.95	0.805	104	54	9	3.77	0.839	
		25.0%	61.1%	13.9%			80.0%	12.3%	7.7%			62.3%	32.3%	5.4%			
4.	My interaction with the ILS is	28	67	13	3.22	0.756	53	8	4	4.06	0.801	92	52	17	3.72	0.928	
	clear and understandable	25.9%	62.1%	12.0%			81.5%	12.3%	6.2%			58.7%	32.2%	10.2%			
5.	I get quick response from the	29	58	21	3.15	0.924	52	9	4	4.02	0.907	85	60	22	3.52	1.075	
	librarian when using the ask-the-																
	librarian link on the ILS	26.9%	53.8%	19.5%			80.0%	13.9%	6.2%			60.0%	35.9%	13.2%			
6.	Access to e-resources on the ILS	22	58	28	2.94	0.964	54	6	5	4.08	0.841	104	48	15	3.79	0.944	
	is easy	20.4%	53.8%	25.9%			83.1%	9.2%	7.7%			62.3%	28.8%	9.0%			
7.	Making book reservation on the	25	56	27	3.14	0.985	51	12	2	4.15	0.755	93	58	16	3.66	0.959	
	ILS is easier	23.1%	51.9%	25.0%			78.5%	18.5%	3.1%			59.2%	34.7%	9.6%			
8.	Renewing of information	22	52	34	2.92	0.818	48	13	4	3.98	0.885	92	57	18	3.63	0.941	
	materials on the ILS is stress-free	20.4%	48.2%	31.5%			74.0%	20.0%	6.1%			55.1%	34.1%	10.8%			
9.	I spend less time when trying to	26	52	30	3.06	0.964	51	12	2	4.08	0.816	83	64	20	3.56	1.019	
	loan book from the library																
	through ILS	24.1%	48.2%	27.8%			78.4%	18.4%	3.0%			49.7%	38.3%	12.0%			
10.	Returning of books through the	27	46	35	2.99	0.889	39	17	9	3.65	0.986	56	62	49	3.06	1.231	
	ILS is cumbersome	25.0%	42.6%	32.4%			60.0%	26.2%	13.8%			33.6%	37.1%	29.4%			
	Weighted Mean	thted Mean = 3.12							= 4.00					= 3.68			
	Weighted Fredrick																

Key: A = Agreed, U = Undecided, D = Disagreed, $\overline{X} = Mean$, STD = Standard Deviation

Based on the findings, it can be inferred that the students from Adeleke University are undecided about how they perceived the ILS to be easy to use. This could be due to the fact that the students do not make use of the library services provided by the ILS. Therefore, it becomes difficult for them to assess how easy to use they perceive the ILS used in the library to be. However, the students from Fountain and Redeemers University see the ILS used in the library to be easy to use. This is because they are seen to have used most of the library services provided by the ILS for several activities. They perceived the ILS to be easy to use as they revealed that; making book reservation on the ILS is easier, the user interface of the ILS is user-friendly, they spend less time when trying to loan book from the library through ILS, access to e-resources on the ILS is easy, their interaction with the ILS is clear and understandable, it easy to get locations of information materials through the OPAC, the ILS is flexible and lots more.

What is the level of user satisfaction with the services provided to them through the ILS in the selected private university libraries

S/N		A	F	ountain U	Jniversity	(N = 65)	5)	Rec	leemer's	Universit	v(N=1)	67)				
	User Satisfaction	Н	M	L	$\overline{\mathbf{x}}$	STD	Н	M	L	$\overline{\mathbf{x}}$	STD	Н	M	L	$\overline{\overline{\mathbf{x}}}$	STD
1.	Library Registration Service	35	16	57	3.06	1.303	51	11	3	4.14	0.759	100	48	19	3.82	1.015
		32.5%	14.8%	52.8%			78.4%	16.9%	4.6%			59.8%	28.7%	11.4%		
2.	Reference Service (ask-a-librarian)	31 28.7%	26 24.1%	51 47.2%	2.93	1.074	44 67.7%	16 24.6%	5 7.7%	3.89	0.770	109 65.2%	36 21.6%	22 13.2%	3.85	0.970
3.	Book Reservation Service	32 29.7%	24 22.2%	52 48.2%	2.97	1.255	38 58.5%	17 26.2%	10 15.4%	3.71	0.974	86 51.5%	55 32.9%	26 15.6%	3.65	0.945
4.	Online Public Access Catalogue (OPAC) Service	32 29.7%	17 15.7%	59 54.7%	2.71	1.200	46 70.8%	11 16.9%	8 12.4%	3.87	0.992	112 67.0%	31 18.6%	24 14.4%	3.93	1.059
5.	Self-Renewal of Information Materials Service	31 28.7%	19 17.6%	58 53.7%	2.81	1.334	43 66.2%	15 23.1%	7 10.8%	3.79	0.901	83 49.7%	40 24.0%	44 26.4%	3.50	1.178
6.	Loaning of Information Materials (Charging) Service	32 29.7%	17 15.7%	59 54.6%	2.79	1.308	37 56.9%	17 26.2%	11 17.0%	3.74	0.964	88 52.7%	37 22.2%	42 25.2%	3.59	1,171
7	Returning of Information Materials (Discharging) Service	33 30.5%	11 10.2%	64 59.2%	2.77	1.378	42 64.7%	14 21.5%	9 13.9%	3.77	0.938	90 53.9%	41 24.6%	36 21.6%	3.70	1.071
8.	Access to e-resources Service	33 30.6%	13 12.0%	62 57.4%	2.81	1.368	47 72.6%	11 16.9%	7 10.8%	3.94	0.931	100 59.8%	36 21.6%	31 18.6%	3.79	1.122
9.	Notifications on New Arrival (Current Awareness Service) Service	34 31.4%	11 10.2%	63 58.4%	2.82	1.371	42 64.6%	12 18.5%	11 16.9%	3.81	0.955	75 44.9%	52 31.1%	40 24.0%	3.43	1.134
10.	Connection to the ILS or electronic resources of other university libraries in Nigeria	36 33.3%	13 12.0%	59 54.6%	2.83	1.370	48 73.9%	9 13.8%	8 12.4%	3.90	0.979	73 43.7%	49 29.3%	45 27.0%	3.30	1.079
11.	through provided links Connection to the ILS or	36	14	58	2.86	1.336	51	7	7	3.95	0.693	73	47	47	3.33	1.146
	electronic resources of other university libraries abroad through provided links	33.3%	13.0%	53.7%			78.5%	10.8%	10.8%			43.7%	28.1%	28.2%		
12.	Connections to websites of various faculty, departments and	33	11	64	2.75	1.298	44	10	11	3.84	1.059	78	48	41	3.42	1.16
	units of the university through provided links	30.5%	10.2%	59.2%			67.7%	15.4%	16.9%			46.7%	28.7%	24.6%		
	Weighted Mean = 2.84								= 3.86					= 3.61		

Key: H = High, M = Medium, L = Low, $\overline{X} = Mean$, STD = Standard Deviation

Based on the finding, it can be inferred that the students in Adeleke University possess a low level of satisfaction with the services provided to them through the ILS in their library. This could be as a result of their level of usage or the reason why most of the students are seen to use it. Also, their level of satisfaction could be triggered by their indecision to the perceived usefulness and perceived ease of use of the ILS. However, the students from Fountain University and Redeemers University possess a high level of satisfaction with the services provided to them through the ILS in their library. This could be as a result of their level of usage, how they perceived it to be useful and easy to use. The high level of satisfaction was evidence as they revealed that they were satisfied with the; Library Registration Service, Reference Service (ask-a-librarian), Book Reservation Service, Online Public Access Catalogue (OPAC) Service, Self-Renewal of Information Materials Service, Loaning of Information Materials (Charging) Service Returning of Information Materials (Discharging) Service, Access to e-resources Service, Notifications on New Arrival (Current Awareness Service) Service, Connection to the ILS or electronic resources of other university libraries in Nigeria through provided links, Connection to the ILS or electronic resources of other university libraries abroad through provided links, Connections to websites of various faculty, departments and units of the university through provided links.

What are the challenges being faced by the library users in the use of ILS in the selected private university libraries?

S/N		A	deleke Uı	niversity (N = 108)	F	ountain U	niversity	(N = 65)	5)	Redeemer's University (N = 167)					
	Challenges	A	U	D	$\overline{\mathbf{x}}$	STD	A	U	D	$\overline{\mathbf{x}}$	STD	A	U	D	$\overline{\mathbf{x}}$	STD	
1.	Erratic Power Supply	35	49	24 22.2%	3.31	1.169	49	10	6	3.58	1.109	57	36	74	2.86	1.415	
2.	Lack of Support from Library Staff	32.4% 36 33.4%	45.3% 47 43.4%	25 23.2%	3.11	0.965	75.4% 37 56.9%	15.4% 11 16.9%	9.3% 17 26.1%	3.73	1.148	34.2% 39 23.4%	21.6% 42 25.2%	44.3% 86 51.5%	2.54	1.260	
3.	Lack of enough user education on the use of ILS services	35 32.4%	50 46.3%	23 21.3%	3.27	1.082	41 63.1%	14 21.5%	10 15.3%	3.41	1.109	43 25.8%	50 30.0%	74 44.3%	2.74	1.275	
4.	Unfriendly nature of the ILS user interface	21 19.4%	60 55.6%	27 25.0%	3.00	0.894	18 27.7%	13 20.0%	34 52.3%	2.60	1.155	35 21.0%	49 29.4%	83 49.7%	2.55	1.178	
5.	Internet network issue	31 28.7%	48 444%	29 26.8%	3.15	1.106	39 60.0%	15 23.1%	11 16.9%	3.59	1.205	57 34.2%	36 21.6%	74 44.3%	2.85	1.343	
6.	The OPAC takes too much time to returning results when conducting search	14 12.9%	63 58.3%	31 28.7%	2.83	0.853	13 20.0%	17 26.2%	35 53.8%	2.46	1.064	37 22.2%	66 39.5%	64 38.4%	2.76	1.206	

Based on the findings, it can be inferred that the students from Adeleke University were Undecided about the challenges faced in the use of ILS. This could be attributed to the fact that they do not use the services provided by the ILS, thereby making it difficult to give an assessment of the challenges faced while using it. However, the students from Fountain University are faced with some challenges while using the ILS. The challenges they are seen to be faced with include; erratic power supply, lack of support from library staff, lack of enough user education on the use of ILS services, and Internet network issues. The students from Redeemers University do not face any form of identified challenges while using the ILS provided by their library. They are seen to have a smooth and seamless use of the ILS.

What are the strategies being used or planned to overcome the challenges being faced in the selected private university libraries?

Strategies being used or planned to overcome the challenges being faced in the selected institution libraries from the library users perspective S/N Adeleke University (N = 108)Fountain University (N = 65)Redeemer's University (N = 167)**Strategies** Α U $\overline{\mathbf{x}}$ STD A IJ $\overline{\mathbf{x}}$ STD A IJ $\overline{\mathbf{x}}$ STD 3.74 Alternative means of 50 44 14 1.130 50 12 4.24 0.885 126 30 11 4.28 0.966 1. power 46.3% 40.7% 13.0% 76.9% 18.5% 4.6% 75.3% 18.0% 6.6% supply should be provided 45 13 58 2 20 9 Library staff should be ready to 3.62 1.015 4.34 0.801 138 4.28 0.937 50 provide support for users when using the ILS service 46.3% 12.0% 89.2% 7.7% 3.0% 82.6% 12.0% 41.6% 5.4% 1.139 47 3 4.17 0.985 8 0.907 The library management should 45 16 3.67 15 133 26 4.26 sensitize users on how to use the 43.6% 23.0% 4.6% ILS service 41.6% 14.8% 72.3% 79.5% 15.6% 4.8% 37 1.111 0.990 The ILS modules should be 20 3.59 4.19 0.871 129 11 4.16 designed to be user friendly 47.3% 34.3% 18.5% 83.1% 12.3% 4.6% 77.2% 16.2% 6.6% The library management should 37 20 3.63 1.141 51 10 4 4.14 1.006 125 34 8 4.24 0.954 51 34.3% 18.5% 78.4% 15.4% 6.2% 74.8% 20.4% 4.8% increase the internet bandwidth 47.3% The OPAC module should be 38 22 3.52 1.157 48 10 3.98 1.081 124 33 10 4.20 1.019 improved upon to return results 15.4% quick enough when searching 44.4% 35.2% 20.4% 73.8% 10.8% 74.2% 19.8% 6.0%

Key: A = Agreed, U = Undecided, D = Disagreed, $\overline{\mathbf{X}} = Mean$, STD = Standard Deviation

Based on the findings, it can be inferred that students from the selected private Universities want the library to deploy some important strategies in order to overcome the challenges faced while using the ILS. These strategies are; Alternative means of power supply should be provided, Library staff should be ready to provide support for users when using the ILS service, the library management should sensitize users on how to use the ILS service, The ILS modules should be designed to be user friendly, the library management should increase the internet bandwidth, The OPAC module should be improved upon to return results quick enough when searching.

CONCLUSION

In measuring the effectiveness of software in libraries in Nigeria and around the world, perceived usefulness and perceived ease of use should be major variables to consider when evaluating the software.

This is because; based on the study, the more people understand the ILS to be useful for things necessary and important to do, the more they would use it to do such things, the more a person understands that using the ILS would be free of effort and flexible, the more they would use it. The TAM variables determine the level of satisfaction derived by users from the ILS services i.e., when the ILS is flexible, user-friendly, re-usable, adaptable and robust, the more they would be satisfied with ILS services provided for several important purposes.

Finally, perceived ease of use and perceived usefulness are very important and germane to the satisfaction level of users with the services provided by Integrated Library System so libraries should consider these variables when selecting software for use in the library.

RECOMMENDATIONS

Based on the findings of this study, the following recommendations were made to ensure rendering effective and satisfactory library services through ILS:

- 1. Management of Adeleke University library should improve on creating awareness among the library users for them to understand the importance of using the ILS services.
- 2. The management of the university libraries faced with the challenge of erratic power supply should provide alternative means of power to avoid breakdown of systems when there is no power in the library.
- 3. Library staff should be ready to provide support for users when using the ILS service. This will help the users to be satisfied from the use of the ILS service.
- 4. The library management should organize a sensitization program like library orientation for the users to put them through on how to use the ILS service.
- 5. System and user interface design experts should be engaged to configure the ILS modules to be user friendly.
- 6. The library management should increase the internet bandwidth to improve the reliability of the internet network to students on the campuses.
- 7. The library management should provide the necessary technical facilities needed for the smooth running of the ILS.

8.	When selecting software in libraries, the perceived usefulness and perceived ease of use, should be major criteria considered.
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