Use of Mobile Technology-Based Library Services and Information Needs Satisfaction of Undergraduates in Universities in South-West Nigeria

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Keywords: Mobile technology-based library services; Information needs satisfaction; University libraries; Undergraduates; Covid-19

Abstract

Aim: Users’ satisfaction has been a subject of research since the establishment of the first university library in 1984, which signalled the commencement of the provision of information services to academic library users in Nigeria. However, empirical studies on the use of mobile technology-based library services in relation to students’ information needs satisfaction are rare. Thus, there is a knowledge gap, and this study, therefore, sets out to fill this gap by investigating the use of mobile technology-based library services and information needs satisfaction among undergraduates in universities in South-West Nigeria.

Methods: The research design for the study was a survey, involving a multistage sampling technique. Two questionnaires (on the level of use of mobile technology-based library services and information needs satisfaction of undergraduates) were used to sample 1,086 undergraduates across three faculties at six universities in South-West Nigeria. 1,045 responses were analysed using descriptive statistics.

Results: The study found that some mobile technology-based library services were frequently used by undergraduates, while others were not. Most of the students expressed satisfaction with the services provided by their university libraries. The results of this study also showed that there is a highly positive relationship (Pearson r = 0.53) between the use of mobile technology-based library services and the information needs satisfaction of undergraduates in South-West Nigeria.

Conclusion: This study concluded that with a good deployment of infrastructure, the provision of mobile technology-based library services will encourage their effective use by undergraduates and, consequently, a higher level of information needs satisfaction. The study recommended, among other things, that university library management should subscribe regularly to mobile technology-based library services to overcome some of the challenges posed by COVID-19.
Introduction

The information age, made possible by the advent of computers and other associated technologies, has made it inevitable for university students to search for online electronic information in a bid to satisfy their information needs. Online electronic information searching by university students is increasingly becoming a part of their academic lives. Academic libraries have always been sources of information for university students. Academic library information resources in Nigeria are partly delivered electronically, and the electronic components (such as information on flash disk, real-time access to online information by lecturers, and so on) are beginning to be incorporated into classroom work and course assignments (Haliso & Ogungbeni, 2014). The effectiveness of searching through academic library electronic resources may, therefore, affect the academic life of university students. Unfortunately, for many university students who have not done much online information searching before, searching for information using library electronic resources could be a daunting task.

The culture of universities and libraries influences university students’ information needs and seeking behaviour. In other words, the students of those universities that always prioritise equipping their libraries with the latest and relevant information resources are normally satisfied with what they get from these libraries. At present, the information-gathering style of Nigerian students has been given a boost due to the web presence on university campuses in Nigeria and the prevalence of mobile devices (Okoh & Ijiekhuamhen, 2014). It is evident that as digital information resources proliferate, students are making fewer visits to university libraries to retrieve information. Many students no longer see university libraries as their main source of information when completing academic work, and they increasingly rely on the Internet as their primary information source (Biddix, Chung & Park, 2011; Zlatkin-Troitschankaia, Hartig, Goldhammer & Krstev, 2021). The Internet provides citations to rich sources of readily available information materials for students in a similar way to that carried out in conventional sources, such as books and academic journals (Elsevier, 2022).

As the acquisition and use of portable electronic devices is on the increase among university students, librarians are coming up with innovations that will continue to make the library a preferred source of information needs satisfaction for library patrons. The outcome of such innovations has significantly popularised mobile technology-based library services. Mobile technology-based library services are services that are deployed on mobile applications and devices using the internet to meet the information needs of users. Today, such services include quick response (QR) codes, e-books, augmented reality, mobile websites, online public access catalogue (OPAC), mobile databases and short messaging services (SMS) that are provided by academic libraries and disseminated to students (Hyman, Moser & Segala, 2014). Mobile technology-based library services pro-
vide avenues for librarians to be innovative in service provision; and also stimulate the interest of patrons in library services.

There are various aspects of information needs. For an individual, these various aspects can be economical, social, political, educational or cultural. Information need is, however, dependent mostly on the information seeking behaviour of the individual in need of information (Mierzecka & Suminas, 2016). And for undergraduates, they prioritise information that meets their educational needs most of the time when they search for information. Information needs satisfaction is a broad term, which involves the contentment that follows a set of actions that an individual, such as a university student, takes to express, seek, evaluate, select and finally use this information (Fatima & Ahmad, 2008). It is, therefore, described as an individual’s fulfilment after gathering and obtaining information for personal use, knowledge updating and development.

Undergraduates need access to information in its different formats, including textbooks, journals and serials, amongst others. The various formats and sources are to serve as alternatives in meeting students’ information needs. Information is needed by undergraduates for a variety of purposes and satisfying the needs of the students is a responsibility that university libraries must not approach with levity.

For most university libraries, the provision of mobile technology-based services has become increasingly important due to the demands of the 21st-century information users who want to find the technologies they are used to outside of the library, deployed by the library. It is, therefore, no longer novel to find electronic mobile websites, mobile databases, e-books, mobile OPAC, SMS, QR codes and library apps services in academic libraries.

The deployment of mobile technology-based library services became inevitable for university libraries in the wake of the outbreak of the Corona virus. This outbreak, which the World Health Organization (WHO) declared a pandemic on 11 March, 2020 (Balkhair, 2020), led to the shutdown of universities and, by extension, their libraries across the world for a period of not less than four months. As part of the “new normal” imposed on humanity by COVID-19, the provision of information services that would satisfy the needs of library patrons had to encompass an online delivery of information services. This study aimed to come up with findings that will help librarians and other professionals working in the university library deploy more services using mobile technology-based platforms.

**Aims**

The main objective of this study was to investigate the use of mobile technology-based library services and information needs satisfaction of undergraduates in universities in South-West Nigeria. Specifically, this study aimed to:

1. Determine the level of use of mobile technology-based library services
by undergraduates in universities in South-West Nigeria;
2. Ascertain the level of information needs satisfaction of undergraduates in universities in South-West Nigeria;
3. Determine the relationship between the use of mobile technology-based library services and information needs satisfaction of undergraduates in universities in South-West Nigeria.

Research Questions

The following research questions guided the study
1. What is the level of use of mobile technology-based library services by undergraduates in universities in South-West Nigeria?
2. What is the level of information needs satisfaction of undergraduates in universities in South-West Nigeria?
3. What is the relationship between the use of mobile technology-based library services and information needs satisfaction of undergraduates in universities in South-West Nigeria?

Literature Review

Information and communication technologies have made incursions into every aspect of university library operations, starting from their impact on the way university libraries process information, disseminate knowledge and interact with library materials and the way university library patrons seek and gain access to these materials (Kowalczyk, 2018), as a response to the recent global effect of infectious diseases on human endeavours. Following the outbreak of coronavirus infectious disease, university libraries have become aware of the inevitabilities of providing services using mobile technology-based library services. Mobile technologies have also changed the way library patrons search for information. Therefore, any university library that fails to put in place resources and facilities allowing it to adapt to the new ways of doing things will gradually decline in relevance in the business of providing information services to the members of the university community.

Information needs usually arise when a student wants to answer a question or solve a problem. The pursuance of the information need will be based on the types of materials that the student believes are suitable in the course of the student’s study or research (Meho & Tibbo, 2001). Such materials may include electronic resources that the university library has provided and made available to the students. Students information needs are crucial in evaluating their satisfaction and quality of service provided for them, hence the design of information systems by university libraries from user perspectives (Bukar, Kimani & Namande, 2022).
Before designing a product, service or system, most university libraries routinely gather information about the needs and goals of the target users: students, faculty and non-faculty members (Pruitt & Adlin, 2006; Sasmito & Hidayattullah, 2021). Hiller (2001) stated that “if academic librarians are to realistically serve their students, they must recognize the changing needs and variations in information gathering and provide mobile technology-based library services that would be beneficial to users”. In the same vein, King (2005) and Song (2009) harped on the fact that academic libraries should rebrand their services, collections and facilities to meet the rate of continuous change in information seeking behaviour, needs and expectations of students. This can be achieved through a thorough understanding of user information needs in order to provide successful information services by the deployment of information and communication technology (Zhang as cited in Ogungbeni & Nwosu, 2021).

The multiplicity of user-centred design (UCD), a design approach that focuses on the understanding of the needs and desires of the users rather than design aesthetics (Chammas, Quaresma & Mont’Alvao, 2015), has provided credence to the fact that users should be a vital part of design processes in order to create more usable and satisfying services such as mobile technology-based library services (Abras, Maloney-Krichmar & Preece, 2004). User-centred design objects optimise the usability of the designed products in such a way that they are tailored towards the ways in which users act rather than forcing users to change their ways in order to use the products (Kahraman, 2010). The development of mobile technology-based library services takes into consideration the obsession of most undergraduates with mobile devices. Most of the undergraduates in Nigeria, according to Tella, Olawuyi and Durodolu (2021), have mobile devices in the form of smartphones, laptops, palmtops, notebook computers, iPods and others. These mobile devices can only be put to optimal use with user-centred designed products like mobile technology-based library services.

This profound shift from talking about general users to the understanding and identification of the needs and goals of specific groups or individuals allows academic librarians to more effectively address user needs.

In a study on mobile web services in libraries, Wang, Ke, and Lu (2012) found that more and more university libraries have adopted existing mobile technologies to offer innovative services and that users would be encouraged to prioritise the library if previous experience yielded maximum satisfaction. Chen, Nur-khamid, Wang, Yang, Lue and Chang (2013), in a study titled “Digital Learning Playground: Supporting Authentic Learning Experiences in the Classroom”, posited that using digital technologies in a university environment increases undergraduate information needs satisfaction.

Zaied (2012) carried out a study on an integrated success model for evaluating information systems in the public sector and found that perceived usefulness and users’ satisfaction were strong influences on information system’s success.
Baro, Onyenania and Osaheni (2010) conducted research on the information needs, sources and information searching strategies of undergraduate students and found that 65.6% of undergraduates were using internet-based library services to satisfy their information needs.

<table>
<thead>
<tr>
<th>Use of Mobile Technology-based Library Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Frequency</td>
</tr>
<tr>
<td>- Purpose</td>
</tr>
<tr>
<td>- Intensity</td>
</tr>
<tr>
<td>- Appropriateness</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Students’ Information Needs Satisfaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Fulfilment</td>
</tr>
<tr>
<td>- Less Effort Used</td>
</tr>
<tr>
<td>- Skill Learned</td>
</tr>
<tr>
<td>- Experience Improved</td>
</tr>
<tr>
<td>- Overall Outcome</td>
</tr>
</tbody>
</table>

Figure 1. Conceptual framework of the use of mobile technology-based library services and information needs satisfaction.
Source: Made by Authors.

The two major variables in this study can perform the roles of both dependent or independent variables (Figure 1). The use of mobile technology-based library services is a function of frequency of use, purpose of use, intensity of use and appropriateness (Ogungbeni & Nwosu, 2021). The constructs that determine students’ information needs satisfaction are fulfilment, less effort used, skill learned, experience improved and overall outcome.

Methods

The research design adopted for this research study is the survey research design. 372,000 undergraduates (2019/2020 academic session) of the 42 universities in six states of South-West Nigeria constituted the population of this study. This figure, 372,000 are the additions of the populations of the 42 universities obtained from their various academic planning units. The multi-stage sampling technique was adopted to choose the sample for this study. A purposive choosing of six universities with one university per state was carried out. These universities are Ekiti State University, Ekiti State; Babcock University, Ogun State; Federal University of Technology, Akure, Ondo State; Bowen University, Osun State; University of Ibadan, Oyo State and Lagos State University, Lagos State. This
purposive selection included two federal universities, two state universities and two private universities. These universities were chosen because of their years of establishment and their developed state of information and communication technology infrastructures. The selected universities are those established not later than year 2001 and have Internet connectivity for their students.

Proportionate random sampling technique was used to choose 1.5% of the total population of undergraduates in each of the six universities. Proportionate random sampling method was considered suitable for the study because of the heterogeneous nature of the number of undergraduates in the six universities as some have large number of undergraduates, while others have not too large a number. The 1.5% fraction is considered adequate for this study, because Dierckx (2013) recommended that for an investigative study at 95% confidence level and high response rate, the sample size can be between 1% and 5% of the total population.

The sample for each university was chosen across three faculties (Arts/Engineering, Science and Social Science/Environmental Science) with each faculty having equal representation. These three faculties were chosen because they are common to the six universities. The samples in each faculty were chosen through a random sampling technique. The total sample size for this study amounted to one thousand and eighty-six (1,086). A total of one thousand and forty-five (1,045) responses were recorded yielding a response rate of 96.2%.

The instruments for data collection are researcher-designed ‘use of mobile technologies’ and ‘students’ information needs satisfaction’ questionnaires. All items of the instrument for the ‘use of mobile technologies’ were measured using ‘Daily,’ ‘2-3 times in a week,’ ‘Once in a month,’ ‘Once in several months’ and ‘Not at all,’ while those of the instrument for ‘information needs satisfaction’ were measured using ‘Very Satisfied,’ ‘Satisfied,’ ‘Undecided,’ ‘Dissatisfied’ and ‘Very Dissatisfied.’

To ensure that the instruments yielded valid data, they were assessed for face validity at the initial and modified versions. This was achieved by providing a draft of the questionnaire to an expert in the Departments of Library and Information Science and Measurement and Evaluation in the Faculty of Education, Nnamdi Azikiwe University, Awka. A copy of the draft was provided to them together with the topic of research, the purpose of the study and research questions. They were requested to critically examine the items in relation to content relevance, appropriateness of statements, the clarity of words and length of statements in relation to the purpose of study and research questions. The internal reliability of the final versions was then assessed and confirmed adequate through the following Cronbach’s alpha test statistics: use of mobile technologies (0.762) and information needs satisfaction (0.841). Data obtained from the study were analysed using descriptive statistics. Mean rating and standard deviation were used for the analysed data obtained from research questions one
and two, while Pearson's correlation coefficients was used for the analysed data related to research question three. All analyses were computed using SPSS Computer Software Package.

Results

Research Question 1: What is the level of use of mobile technology-based library services by undergraduates in universities in South-West Nigeria?

Table 2. The use of mobile technology-based library services

<table>
<thead>
<tr>
<th>Frequency of use</th>
<th>Mobile Website</th>
<th>E-book</th>
<th>Mobile Database</th>
<th>QR Code</th>
<th>Library App</th>
<th>SMS</th>
<th>Mobile OPAC</th>
<th>Augmented Reality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not at all</td>
<td>417 (39.9%)</td>
<td>312 (29.9%)</td>
<td>501 (47.9%)</td>
<td>692 (66.2%)</td>
<td>524 (50.1%)</td>
<td>436 (41.7%)</td>
<td>459 (43.9%)</td>
<td>863 (82.6%)</td>
</tr>
<tr>
<td>Once in several months</td>
<td>83 (7.9%)</td>
<td>103 (9.9%)</td>
<td>124 (11.9%)</td>
<td>63 (6.0%)</td>
<td>143 (13.7%)</td>
<td>0 (0.0%)</td>
<td>166 (15.9%)</td>
<td>70 (6.7%)</td>
</tr>
<tr>
<td>Once in a month</td>
<td>125 (12.0%)</td>
<td>126 (12.1%)</td>
<td>126 (12.1%)</td>
<td>42 (4.0%)</td>
<td>84 (8.0%)</td>
<td>84 (8.0%)</td>
<td>105 (10.0%)</td>
<td>42 (4.0%)</td>
</tr>
<tr>
<td>2-3 in a week</td>
<td>252 (24.1%)</td>
<td>294 (28.1%)</td>
<td>147 (14.1%)</td>
<td>186 (17.8%)</td>
<td>189 (18.1%)</td>
<td>147 (14.1%)</td>
<td>231 (22.1%)</td>
<td>68 (6.5%)</td>
</tr>
<tr>
<td>Daily</td>
<td>168 (16.1%)</td>
<td>210 (20.1%)</td>
<td>147 (14.1%)</td>
<td>62 (5.9%)</td>
<td>105 (10.0%)</td>
<td>378 (36.2%)</td>
<td>84 (8.0%)</td>
<td>2 (0.2%)</td>
</tr>
<tr>
<td>Total</td>
<td>1045 (100%)</td>
<td>1045 (100%)</td>
<td>1045 (100%)</td>
<td>1045 (100%)</td>
<td>1045 (100%)</td>
<td>1045 (100%)</td>
<td>1045 (100%)</td>
<td>1045 (100%)</td>
</tr>
</tbody>
</table>

The mobile technology-based library service that is frequently used on a daily basis by undergraduates in universities in South-West Nigeria, as indicated in Table 2, is SMS (36.2%), followed by e-book (20.1%), mobile website (16.1%), mobile database (14.1%), library app (10.0%), mobile OPAC (8.0%), QR code (5.9%) and augmented reality (0.2%). In terms of the services the undergraduates have never used, 82.6% have never used augmented reality, 66.2% have never used QR code, 50.1% have never used library apps, 47.9% have never used mobile databases, 43.9% have never used mobile OPAC, 41.7% have never used SMS, 39.9% have never used mobile websites and 29.9% have never used e-books.
Research Question 2: What is the level of information needs satisfaction of undergraduates in universities in South-West Nigeria?

Table 3. Information Needs Satisfaction

<table>
<thead>
<tr>
<th>Information Needs</th>
<th>N</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Mean</th>
<th>Std. Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workshop information</td>
<td>1045</td>
<td>1.00</td>
<td>5.00</td>
<td>2.2086</td>
<td>1.41032</td>
</tr>
<tr>
<td>Course registration information</td>
<td>1045</td>
<td>1.00</td>
<td>5.00</td>
<td>3.5483</td>
<td>1.36837</td>
</tr>
<tr>
<td>Student timetable</td>
<td>1045</td>
<td>1.00</td>
<td>5.00</td>
<td>3.1904</td>
<td>1.40576</td>
</tr>
<tr>
<td>Career prospects resources</td>
<td>1045</td>
<td>1.00</td>
<td>5.00</td>
<td>2.3086</td>
<td>1.20858</td>
</tr>
<tr>
<td>Social interaction platforms on university websites</td>
<td>1045</td>
<td>1.00</td>
<td>5.00</td>
<td>2.1699</td>
<td>1.30952</td>
</tr>
<tr>
<td>Resources for assignment (electronic)</td>
<td>1045</td>
<td>1.00</td>
<td>5.00</td>
<td>3.6900</td>
<td>1.24858</td>
</tr>
<tr>
<td>Resources for study (electronic)</td>
<td>1045</td>
<td>1.00</td>
<td>5.00</td>
<td>3.9880</td>
<td>1.17031</td>
</tr>
<tr>
<td>Resources for seminar (electronic)</td>
<td>1045</td>
<td>1.00</td>
<td>5.00</td>
<td>3.4880</td>
<td>1.17977</td>
</tr>
<tr>
<td>Group discussion platform</td>
<td>1045</td>
<td>1.00</td>
<td>5.00</td>
<td>2.3292</td>
<td>1.28309</td>
</tr>
<tr>
<td>Resources for research (electronic)</td>
<td>1045</td>
<td>1.00</td>
<td>5.00</td>
<td>3.7493</td>
<td>1.17048</td>
</tr>
<tr>
<td>Material for assignments (print)</td>
<td>1045</td>
<td>1.00</td>
<td>5.00</td>
<td>3.9301</td>
<td>1.16950</td>
</tr>
<tr>
<td>Materials for study (print)</td>
<td>1045</td>
<td>1.00</td>
<td>5.00</td>
<td>3.9703</td>
<td>1.17121</td>
</tr>
<tr>
<td>Valid N (listwise)</td>
<td>1045</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The level of information needs satisfaction of undergraduates in universities in South-West Nigeria is represented in Table 3. In terms of electronic resources for study, the students expressed a level of satisfaction with them (Mean=3.98). They also expressed satisfaction with electronic resources for seminar (Mean=3.48), information on course registration (Mean=3.54), electronic resources for assignments (Mean=3.69), electronic resources for research (Mean=3.74), printed materials for study (Mean=3.97). The students, however, expressed dissatisfaction with information need on workshop (Mean=2.20), career prospects (Mean=2.30), platforms on websites for social interaction (Mean=2.16) and platform for group discussions (Mean=2.32).
Table 4. Pearson r on the relationship between the use of mobile technology-based library services and information needs satisfaction

<table>
<thead>
<tr>
<th>Source of Variation</th>
<th>N</th>
<th>Use of Mobile Technology-based Lib Services</th>
<th>Information needs satisfaction</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use of Mobile Technology-based Lib Services</td>
<td>1045</td>
<td>1</td>
<td>.58</td>
<td>High positive relationship</td>
</tr>
<tr>
<td>Information needs satisfaction</td>
<td>1045</td>
<td>.58</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Correlations

<table>
<thead>
<tr>
<th>Students Faculties</th>
<th>Use of Mobile Technology-based Lib Services</th>
<th>Correlation</th>
<th>Significance (2-tailed)</th>
<th>df</th>
<th>Students’ Information Needs Satisfaction</th>
<th>Correlation</th>
<th>Significance (2-tailed)</th>
<th>Df</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Control Variables</td>
<td>1.000</td>
<td>.</td>
<td>0</td>
<td>1042</td>
<td>.085</td>
<td>.</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Use of Mobile Technology-based Lib Services</td>
<td>.53</td>
<td>.085</td>
<td></td>
<td></td>
<td>1.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Students’ Information Needs Satisfaction</td>
<td>.085</td>
<td>.</td>
<td>1042</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The result of the analysis of the relationship between the composite scores of use of mobile technology-based library services and composite scores of information needs satisfaction of undergraduates is shown in Table 4. The result shows that there is a high positive relationship between the use of mobile technology-based library services and information needs satisfaction of undergraduates in South-West Nigeria.

Discussion

Findings showed that the level of use of mobile technology-based library services by undergraduates in universities in South-West Nigeria was high, with e-books, mobile websites, short messaging services, mobile OPAC and mobile databases being used often. However, the level of use of augmented reality, QR codes and library apps was very low among the undergraduates in universities in South-West Nigeria. Wang, Ke and Lu (2012) opined that the level of use of
mobile technology-based library services will be high if users derive maximum satisfaction from the previous use. Another possible reason for the high level of use of mobile technology-based library services is the level of awareness of undergraduates. Chen, Nurkhamid, Wang, Yang, Lue and Chang (2013) opined that the lack of user education inhibits the use of mobile technology-based library services as users who are well sensitised to the availability and use of mobile technology-based library services become more satisfied when they search for information.

While the promotion of libraries beyond borders through the provision of mobile technology-based library services intensifies among library patrons, it is pertinent to let librarians and those who are saddled with the responsibilities of providing information and communication technology facilities on university campuses know that it is compulsory to provide these services in this era of a “new normal”. The “new normal” imposed by the outbreak of COVID-19 is making it inevitable for academic institutions to deploy instructions to learners using online platforms.

Concerning the information students obtain from their university libraries to meet their academic information needs, the result from research question two indicates that the students expressed satisfaction with most of the information. University libraries in Nigeria have elevated their services in the field of meeting the information needs of their users, who are predominantly undergraduates. This is in a bid to remain a major source of information to undergraduates and maintain their relevance within the university community. This agrees with a study by Zaied (2012), who posited that their use and user satisfaction are vital and non-negligible variables in the assessment of the effectiveness of libraries’ e-services.

The result from research question three reveals that there is a highly positive relationship between the use of mobile technology-based library services and the information needs satisfaction of undergraduates in South-West Nigeria. Undergraduates in South-West Nigeria use mobile technology-based library services in direct proportion to the satisfaction of their information needs. This result is expected, because we are living in an age where mobile devices have become sine qua non in the lives of young people (undergraduates). Undergraduates, most of whom are digital natives, rely on mobile technology-based platforms for their information needs. The result of research question three is in agreement with the findings of Baro, Onyenania and Osarehin (2010) that 65.6% of undergraduates were using internet-based library services for their information needs satisfaction.

Conclusion

The positive relationship between the use of mobile technology-based library services and information needs satisfaction of undergraduates in universities in South-West Nigeria, as revealed by this study, has provided an empirical
basis for practice. This implies that the infrastructures for the deployment of mobile technology-based library services must be very efficient. With a good deployment of an infrastructure, the provision of mobile technology-based library services will encourage an effective use of the services by undergraduates and, consequently, a higher level of information needs satisfaction.

The management of university libraries should ensure that mobile technology-based library services are provided with adequate information and communication technology tools subscribed to regularly as this will encourage undergraduates to constantly engage in the use of mobile technology-based library services.

References


Korzystanie z bibliotecznych usług mobilnych a zaspokojenie potrzeb informacyjnych studentów pierwszego stopnia uniwersytetów w południowo-zachodniej Nigerii

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nie bibliotekoznawstwa i informacji naukowej zdobyty na Uniwersytecie Nnamdi Azikiwe w Awka. Dr Ongunbeni jest autorem kilku artykułów w renomowanych czasopismach. Jego obszary zainteresowań obejmują technologie informacyjno-komunikacyjne w bibliotekach oraz badania naukowe w bibliotekach akademickich.

łowa kluczowe: usługi biblioteczne oparte na technologii mobilnej; zaspokojenie potrzeb informacyjnych; biblioteki uniwersyteckie; studenci pierwszego roku; Covid-19

tresczenie

el: Zaspokojenie potrzeb użytkowników jest przedmiotem badań od czasu utworzenia pierwszej biblioteki uniwersyteckiej w 1984 r., co zasygnalizowało rozpoczęcie świadczenia usług informacyjnych dla użytkowników bibliotek akademickich w Nigerii. Jednakże badania empiryczne dotyczące korzystania z usług bibliotecznych opartych na technologii mobilnej w odniesieniu do zaspokojenia potrzeb informacyjnych studentów są rzadkie. W związku z tym istnieje luka w wiedzy, a niniejsze badanie ma na celu wypełnienie tej luki poprzez zbadanie wykorzystania usług bibliotecznych opartych na technologii mobilnej i zaspokojenia potrzeb informacyjnych wśród studentów uniwersytetów w południowo-zachodniej Nigerii.

etodyka: Projekt badania był ankietą, obejmującą wieloetapową technikę próbkowania. Dwa kwestionariusze (dotyczące poziomu wykorzystania usług bibliotecznych opartych na technologii mobilnej i zaspokojenia potrzeb informacyjnych studentów) wykorzystano do badania na próbie 1086 studentów z trzech wydziałów na sześciu uniwersytetach w południowo-zachodniej Nigerii. Przeanalizowano 1045 odpowiedzi przy użyciu statystyk opisowych.

yniki: Badanie wykazało, że niektóre usługi biblioteczne oparte na technologii mobilnej były często używane przez studentów, podczas gdy inne nie. Większość studentów wyraziła zadowolenie z usług świadczonych przez biblioteki uniwersyteckie. Wyniki tego badania wykazały również, że istnieje bardzo pozytywny związek (Pearson r = 0,53) między korzystaniem z mobilnych usług bibliotecznych opartych na technologii a zaspokojeniem potrzeb informacyjnych studentów w południowo-zachodniej Nigerii.

nioski: W badaniu tym stwierdzono, że przy dobrym wdrożeniu infrastruktury, świadczenie usług bibliotecznych opartych na technologii mobilnej zachęci studentów do efektywnego korzystania z tych usług, a w konsekwencji poziom zaspokojenia potrzeb informacyjnych wzrośnie. W badaniu zalecono między innymi, aby kierownictwo bibliotek uniwersyteckich regularnie subskrybowało usługi biblioteczne oparte na technologii mobilnej, aby przezwyciężyć niektóre wyzwania związane z COVID-19.
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Nutzung von mobiltechnologiebasierten Bibliotheksdiensten und Erfüllung der Informationsbedürfnisse von Bachelorstudenten an Universitäten im Südwesten Nigerias

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