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Utilization of *Usability Repository* for Final Year Students in Writing Thesis

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Abstract. *This study discusses the usability of repositories for final year students in writing their theses at the Technical Implementation Unit of the Sriwijaya University Library. The purpose of this study is to determine the usability of repository applications for final year students in writing their theses at Sriwijaya University. This study used a quantitative research method with a questionnaire data collection technique that measured the level of repository utilization and usability perceptions based on the aspects of ease of use, efficiency, satisfaction, and ease of learning. Total sampling was used in this study, where the entire population of 9,319 students from the 2021 batch participated as 418 respondents. This was done to obtain a comprehensive picture of the usability of the repository based on Nielsen's theory using five categories, namely: Learnability (3.88), Efficiency (4.10), Memorability (3.87), Errors (3.04), and Satisfaction (4.21). From the results of this study, it can be concluded that Sriwijaya University students of the 2021 cohort have high usability skills. This is reflected in the high scores obtained in the five stages.*

Keywords: *Repository; Usability; Utilization; Thesis; Sriwijaya University Library.*

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Abstrak. *Penelitian ini membahas tentang pemanfaatan (usability) repository bagi mahasiswa tingkat akhir dalam penyusunan skripsi di Unit Pelaksana Teknis Perpustakaan Universitas Sriwijaya. Tujuan dilakukannya penelitian ini yaitu Untuk mengetahui pemanfaatan aplikasi repositrory bagi mahasiswa tugas akhir dalam penyusunan skripsi Universitas Sriwijaya. Penelitian ini menggunakan metode penelitian kuantitatif dengan teknik pengumpulan data kuisioner yang mengukur tingkat pemanfaatan repository dan persepsi usability berdasarkan aspek kemudahan penggunaan, efisiensi, kepuasan, dan kemudahan dipelajari. Total sampling digunakan dalam penelitian ini, dimana seluruh populasi mahasiswa Angkatan 2021 yang berjumlah 9.319 orang yang diikutsertakan sebagai responden sebanyak 418 orang. Hal ini dilakukan untuk memperoleh gambaran yang komprehensif mengenai pemanfaatan (Usability) Repository berdadarkan teori Nielsen menggunakan lima kategori yaitu: Learnability ((3,88), Efficiency (4,10), Memorability (3,87), Errors (3,04), Satisfaction (4,21). Dari hasil penelitian ini dapat disimpulkan bahwa mahasiswa Universitas Sriwijaya Angkatan 2021 memiliki kemampuan yang tinggi dalam pemanfaatan (Usability). Hal ini tercemin dari skor tinggi yang diperoleh di berbagai lima tahap.*

Keywords: *Repository; Usability; Pemanfaatan; Skripsi; Perpustakaan Univeristas Sriwijaya.*

Introduction

The need for information is an important aspect in the development of science and the improvement of human welfare. For students, the need for information and knowledge references is becoming more complex as academic demands increase. Access to information, which is now available through various digital media, makes the process of searching for information more practical and efficient (Anggraeni, E. Y., and Irviani, 2017) . Information, as a collection of systematically organized data, has strategic value in supporting the learning process, research, and the formation of scientific public opinion.

In the context of higher education, libraries play an important role as providers, managers, and preservers of scientific information sources. In the digital era, the function of libraries has evolved through the use of *institutional repositories* as a means of storing, managing, and disseminating the scientific works of the academic community (Anggraeni, E. Y., and Irviani, 2017) . *The repository* of the Technical Implementation Unit of Sriwijaya University (Unsri), managed by the Technical Implementation Unit (UPT) Library, functions as a digital documentation center for scientific works by students, lecturers, and researchers. Through the application of *open access* principles, *the* Technical Implementation Unit (UPT) Library *repository* is expected to increase the visibility of scientific works and expand their impact within the academic environment of .

University libraries not only play a role in providing information sources, but also in ensuring ease of access and user comfort in utilizing the available services. The success *of a repository* as a digital service is not only measured by the number of collections provided, but also by its *usability*, namely the extent to which the system is easy to use, efficient, and provides a satisfying experience for users (Jacob., 1993) . Good *usability* will increase the intensity of use and user satisfaction, while poor *usability* can actually create obstacles in the process of searching and downloading documents (Hidayat, R., Lestari, A., & Ramadhani, 2022) .

Problem-Based Learning is an innovative learning approach that emphasizes the active involvement of students in solving problems relevant to real life (Daniel Afandi et al., 2024). *Problem-Based Learning* places students as the main subjects in the learning process and is oriented towards developing critical thinking skills and problem-solving skills. The use of learning media in the implementation of Problem-Based Learning is an effective strategy to increase student participation and motivation to learn.

Based on the above description, this study focuses on evaluating the utilization level of *the repository* of the Technical Implementation Unit (UPT) of the Sriwijaya University Library based on Nielsen's five dimensions *of usability*, namely *learnability*, *efficiency*, *memorability*, *errors*, and *satisfaction*. This evaluation is important to determine the extent to which *the repository* of the Technical Implementation Unit (UPT) of the Sriwijaya University Library supports the needs of final year students in writing their theses and to identify aspects that need to be improved so that the system is more effective and *user-friendly.*

The research questions in this study are: What is the level *of usability of* the Sriwijaya University Library Technical Implementation Unit (UPT) *repository* based on the five dimensions of the Nielsen model? Which *usability* dimension is the weakest and needs improvement to increase the utilization *of the repository* by final year students?

A repository is a digital storage system for documenting and disseminating scientific works (Sugiharto, 2021) . *Repositories* serve to maintain the sustainability of knowledge, increase the visibility of research, and support academic transparency. (Lynch, 2003) states that *repositories* are an important infrastructure in supporting scientific communication in the digital age. In the context of higher education, *repositories* are part of digital library services that support research and learning activities (Herlina, 2006) ; (Qalyubi, 2013) .

The effectiveness of *repository* utilization is not only determined by the availability of content, but also by the level of usability, namely the extent to which the system is easy to use, efficient, and satisfactory (Jacob., 1993) . Several studies show that *repositories* with high *usability* can increase the frequency of use and user satisfaction (Hidayat, R., Lestari, A., & Ramadhani, 2022) ; (Santoso, 2023) . University libraries play a vital role in supporting academic and research activities. In the digital era, institutional *repositories* have become the primary service for online storage and dissemination of scientific works (Buehler & Boateng, 2005) . The Sriwijaya University *repository*, managed by the Technical Implementation Unit (UPT) Library, serves as a digital documentation center for the scientific works of students and lecturers. This system supports the principle *of open access* to increase the visibility and impact of research (Sari, D., & Ananda, 2024) .

The concept *of usability* according to (Jacob., 1993) emphasizes the ease with which a system can be used by users to achieve specific goals effectively, efficiently, and satisfactorily. Nielsen outlines five main aspects *of usability*. This concept then became the main reference in evaluating information systems and web-based applications, including *institutional repositories* (Santoso, 2023) . In the context of university *repositories*, *usability* plays an important role in determining how effectively students can find, download, and utilize scientific works. The higher the level *of usability*, the greater the likelihood that *the repository* will be used optimally by students and researchers.

A number of studies have been conducted to assess the level of *usability* in university *repositories* in Indonesia. (Lestari, D., & Fauzan, 2022) found that *the* University of Lampung *repository* has a good level of *usability* with an average score of 81%, especially in terms of *learnability* and *satisfaction*. The study (Santoso, 2023) at Diponegoro University shows that *learnability* is a dominant factor that influences the intensity of *repository* use. Meanwhile, (Mahendra, 2023) reports that the level of usefulness *of the repository* at the IAIN Curup Library Technical Implementation Unit (UPT) reached 66.71%, indicating fairly good system performance but still requiring improvement in terms of *efficiency*.

Additionally, research (Sudargini & Purwanto, 2020) found that students who actively utilize repositories have better information literacy skills, particularly in searching for and evaluating scientific sources. These results indicate that repositories not only serve as a place to store digital documents but also as an important means of scientific information learning.

Research Method

This study used a descriptive quantitative approach aimed at describing the level of utilization and *usability of the repository* of the Technical Implementation Unit (UPT) of the Sriwijaya University Library. This approach was chosen to obtain an objective picture of students' perceptions of the ease, efficiency, and satisfaction in using *the* university *repository* based on the five dimensions *of* Nielsen *usability*.

The population in this study was all Sriwijaya University students who had used *the repository* in the process of writing their theses, with a population of more than 9,319 active final-year students. Due to the large population size and its diverse characteristics, the sampling technique used was *proportionate* stratified random sampling, rather than *total sampling*. This technique was used to ensure that each faculty at Sriwijaya University had a balanced proportion of respondents according to the number of final-year students in each faculty.

The total number of respondents in this study was 418 students spread across eight faculties, as shown in Table 1.

Table 1. Number of Respondents by Faculty

No	Faculty	Percentage of Respondents	Number of Respondents
1	Economics	12.40	57
2	Law	10.30%	49
3	Engineering	11.70%	53
4	Medicine	14.60%	64
5	Agriculture	9.10%	41
6	Teaching and Education	7.70	35
7	Social Sciences and Political Science	13.20	59
8	Mathematics and Natural Sciences	13.60	60
Total		**100**	**418**

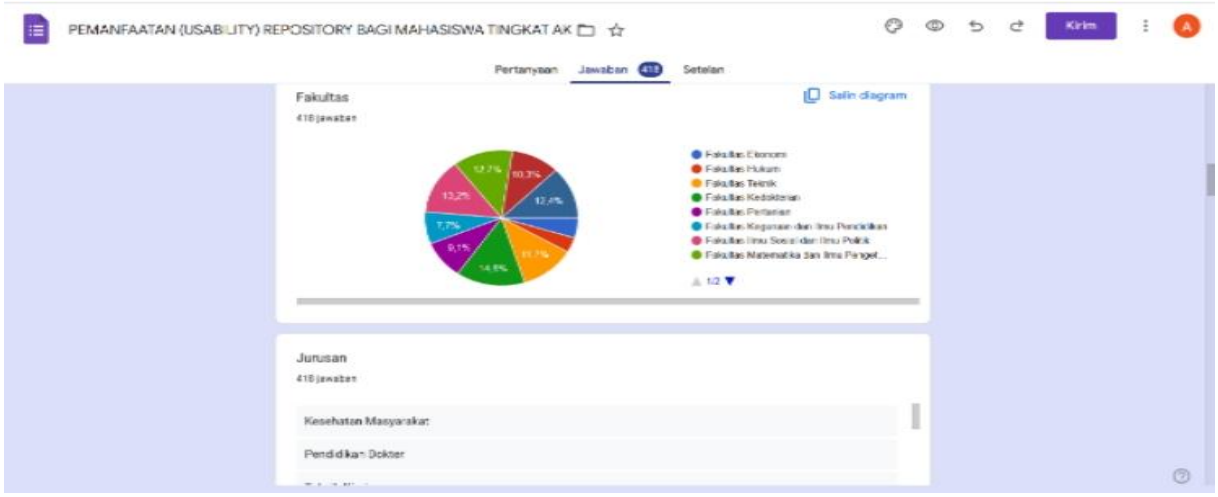

Figure 1.
Number Percentage of Respondents

Data was collected using an *online questionnaire* based on the five dimensions *of usability* according to (Jacob., 1993) , namely *learnability*, *efficiency*, *memorability*, *errors*, and *satisfaction*. Each dimension was operationalized into two main indicators, resulting in a total of 10 questions in the research instrument.

The questionnaire used a five-point Likert scale, ranging from "Strongly Disagree" (1) to "Strongly Agree" (5). Before being used widely, the instrument was first tested on 30 respondents to ensure its validity and reliability. This study was conducted at the Sriwijaya University Library Technical Implementation Unit (UPT) , with data collection carried out over a period of one month. The collected data were analyzed descriptively using simple statistics in the form of percentages, means, and average scores per *usability* dimension. The results of this analysis were used to assess the level of ease, efficiency, and satisfaction of students in using *the repository.*

Results and Discussion

1. Results of Descriptive Usability Analysis of *the Repository*

Based on the analysis results using the *grand mean* formula, the average values varied for each *usability* dimension. The calculation results are presented in Table 2 below:

Table 2. Average Values of the Usability Dimensions of the Sriwijaya University Repository

No	Usability Dimension	Average Value	Category	Interval
1	Learnability	3.88	High	3.40-4.20
2	Efficiency	4.10	High	3.40-4.20
3	Memorability	3.87	High	3.40-4.20
4	Errors	3.64	High	3.40-4.20
5	Satisfaction	4.21	Very High	4.20-5.00
Overall Average		3.95	High	3.40-4.20

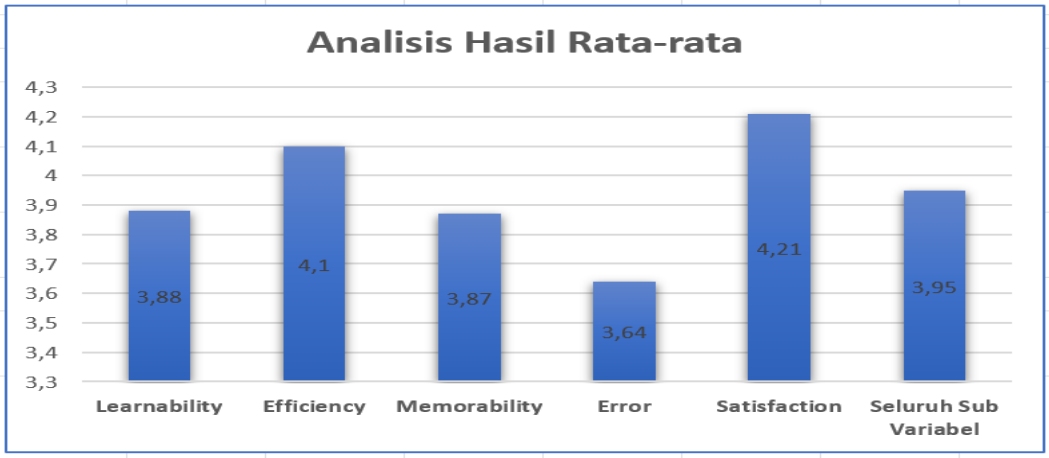

Figure 2.
Analysis of All Sub-Variables

The results obtained by the researcher regarding *usability* by students at Sriwijaya University. Based on the distribution of questionnaires, results were obtained related to *usability* by Sriwijaya University students, which was measured using Nielsen's theory in searching *repositories*. The researcher conducted the measurement by distributing a questionnaire consisting of 10 questions to 418 respondents using total sampling.

2. Usability Findings (Usability *Repository* Technical Implementation Unit (UPT) Sriwijaya University Library

a. Sub-variable: *Learnability*

Table 3. When Using *the Repository* for the First Time, I easily understood how to use the service

No	Category	Score	Number of Respondents (N)	Questionnaire Score (X)	Mean (X)
1	Strongly Agree	5	150	750	$\boldsymbol{X = \frac{\sum X}{N}}$ $= \frac{1602}{418}$ $\boldsymbol{= 3,83}$
	Agree	4	125	500	
	Undecided	3	79	237	
	Disagree	2	51	102	
	Strongly disagree	1	13	13	
	Total		**418**	**1602**	

Table 3 shows the distribution of respondents' answers, where 150 respondents answered "strongly agree", 125 respondents answered "agree", 79 respondents answered "unsure", 52 respondents answered "disagree", and 13 respondents answered "strongly disagree". Based on statistical calculations using the mean method, the average value

obtained was 3.83. Referring to the assessment interval range, this score is in the range of 3.40-4.20, which indicates that the level of repository implementation in the indicators studied is in the "High" category.

Table 4. I Can Easily Obtain the Information
Through the *Repository* Service

No	Category	Score	Number of Respondents (N)	Questionnaire Score (X)	Mean (X)
2	Strongly Agree	5	160	800	$\boldsymbol{X = \frac{\sum X}{N}}$ $= \frac{1651}{418}$ $= \mathbf{3,94}$
	Agree	4	148	592	
	Undecided	3	57	171	
	Disagree	2	35	70	
	Strongly disagree	1	18	18	
	Total		**418**	**1651**	

Table 4 shows the distribution of respondents' answers, where 160 respondents gave the answer "strongly agree", then 148 respondents stated "agree", 57 respondents chose "unsure", 35 respondents answered "disagree", and 18 respondents stated "strongly disagree". Based on statistical calculations using the mean method, the average value obtained was 3.94. Referring to the assessment interval range, this score is in the range of 3.40-4.20, which indicates that the level of *repository* implementation in the indicators studied is in the "High" category.

b. Sub-Variable *Efficiency*

Table 5. I Can Use the *Repository* Service Quickly,
Thus Making My Time More Efficient

No	Category	Score	Number of Respondents (N)	Questionnaire Score (X)	Mean (X)
1	Strongly Agree	5	158	790	$\boldsymbol{X = \frac{\sum X}{N}}$ $= \frac{1696}{418}$ $= \mathbf{4,05}$
	Agree	4	167	668	
	Undecided	3	66	198	
	Disagree	2	13	26	
	Strongly	1	14	14	

	disagree				
	Total		**418**	**1696**	

Table 5 shows the distribution of respondents' answers, where 158 respondents answered "strongly agree", 167 respondents answered "agree", 66 respondents answered "unsure", 13 respondents answered "disagree", and 14 respondents answered "strongly disagree". Based on statistical calculations using the mean method, the average value obtained was 4.05. Referring to the assessment interval range, this score is in the range of 3.40-4.20, which indicates that the level *of repository* implementation in the indicators studied is in the "High" category.

Table 6. Repository Services Make It Easier for Me
In Obtaining Full-Text Documents

No	Category	Score	Number of Respondents (N)	Questionnaire Score (X)	Mean (X)
2	Strongly Agree	5	195	975	$\boldsymbol{X = \frac{\sum X}{N}}$ $= \frac{1743}{418}$ $= \mathbf{4,16}$
	Agree	4	146	584	
	Undecided	3	43	129	
	Disagree	2	21	42	
	Strongly disagree	1	13	13	
	Total		**418**	**1743**	

Table 6 shows the distribution of respondents' answers, where 195 respondents answered "strongly agree", 146 respondents answered "agree", 43 respondents answered "unsure", 21 respondents answered "disagree", and 13 respondents answered "strongly disagree". Based on statistical calculations using the mean method, the average value obtained was 4.16. Referring to the assessment interval range, this score is in the range of 3.40-4.20, which indicates that the level *of repository* implementation in the indicators studied is in the "High" category.

c. Sub-Variable: *Memorability*

Table 7. Navigation Display for Exploring Features and Content
in the *Repository* Service of the Technical Implementation Unit of the Library (UPT) Sriwijaya University is easy to remember for users.

No	Category	Score	Number of Respondents (N)	Questionnaire Score (X)	Mean (X)
1	Strongly Agree	5	119	595	$\boldsymbol{X = \frac{\sum X}{N}}$ $= \frac{1563}{418}$ $= \mathbf{3,73}$
	Agree	4	140	560	
	Undecided	3	102	306	
	Disagree	2	45	90	
	Strongly disagree	1	12	12	
	Total		**418**	**1743**	

Table 7 shows the distribution of respondents' answers, where 119 respondents answered "strongly agree," 140 respondents answered "agree," 102 respondents answered "unsure," 45 respondents answered "disagree," and 12 respondents answered "strongly disagree." Based on statistical calculations using the mean method, the average value obtained was 3.73. Referring to the assessment interval range, this score is in the range of 3.40-4.20, which indicates that the level of repository implementation in the indicators studied is in the "High" category.

Table 8. Ease of Interacting with the *Repository* Service System
at the Technical Implementation Unit (UPT) of the Sriwijaya University Library

No	Category	Score	Number of Respondents (N)	Questionnaire Score (X)	Mean (X)
2	Strongly Agree	5	156	780	$\boldsymbol{X = \frac{\sum X}{N}}$ $= \frac{1680}{418}$ $= \mathbf{4,01}$
	Agree	4	159	636	
	Undecided	3	65	195	
	Disagree	2	31	62	
	Strongly disagree	1	7	7	
	Total		**418**	**1680**	

Table 8 shows the distribution of respondents' answers, where 156 respondents gave the answer "strongly agree", then 159 respondents stated "agree", 65 respondents chose "unsure", 31 respondents answered "disagree", and 7 respondents stated "strongly disagree". Based on statistical calculations using the mean method, the average value obtained was 4.01. Referring to the assessment interval range, this score is in the range of

3.40-4.20, indicating that the level of repository implementation in the indicators studied is in the "High" category.

d. Sub-Variable Erro

Table 9. I Only Experienced a Few *Errors* When Using the Repository Service at the Technical Implementation Unit of the Library (UPT) of Sriwijaya University

No	Category	Score	Number of Respondents (N)	Questionnaire Score (X)	Mean (X)
1	Strongly Agree	5	113	565	$\boldsymbol{X = \frac{\sum X}{N}}$ $= \frac{1502}{418}$ $\boldsymbol{= 3,59}$
	Agree	4	136	544	
	Undecided	3	78	234	
	Disagree	2	68	136	
	Strongly disagree	1	23	23	
	Total		**418**	**1502**	

Table 9 shows the distribution of respondents' answers, where 113 respondents gave the answer "strongly agree", then 136 respondents stated "agree", 78 respondents chose "unsure", 68 respondents answered "disagree", and 23 respondents stated "strongly disagree". Based on statistical calculations using the mean method, the average value obtained was 3.59. Referring to the assessment interval range, this score is in the range of 3.40-4.20, which indicates that the level of *repository* implementation in the indicators studied is in the "High" category.

Table 10. *Errors* Found in the *Repository* Service at the Technical Implementation Unit of the Sriwijaya University Library Can Be Easily Fixed

No	Category	Score	Number of Respondents (N)	Questionnaire Score (X)	Mean (X)
2	Strongly Agree	5	139	695	$\boldsymbol{X = \frac{\sum X}{N}}$ $= \frac{1548}{418}$ $\boldsymbol{= 3,70}$
	Agree	4	122	488	
	Undecided	3	82	246	
	Disagree	2	44	88	
	Strongly disagree	1	31	31	
	Total		**418**	**1548**	

Table 10 shows the distribution of respondents' answers, where 139 respondents gave the answer "strongly agree", then 122 respondents stated "agree", 82 respondents chose "unsure", 44 respondents answered "disagree", and 31 respondents stated "strongly disagree". Based on statistical calculations using the mean method, the average value obtained was 3.70. Referring to the assessment interval range, this score is in the range of 3.40-4.20, which indicates that the level *of repository* implementation in the indicators studied is in the "High" category.

e. Sub-Variable *Satisfaction*

Table 11. I Feel Comfortable When Using the *Repository* Service at Technical Implementation Unit of the Sriwijaya University Library

No	Category	Score	Number of Respondents (N)	Questionnaire Score (X)	Mean (X)
1	Strongly Agree	5	179	895	$\boldsymbol{X = \frac{\sum X}{N}}$ $= \frac{1742}{418}$ $\boldsymbol{= 4,16}$
	Agree	4	166	664	
	Undecided	3	46	138	
	Disagree	2	18	36	
	Strongly disagree	1	9	9	
	Total		**418**	**1742**	

Table 11 shows the distribution of respondents' answers, where 179 respondents gave the answer "strongly agree", then 166 respondents stated "agree", 46 respondents chose "unsure", 18 respondents answered "disagree", and 9 respondents stated "strongly disagree". Based on statistical calculations using the mean method, the average value obtained was 4.16. Referring to the assessment interval range, this score is in the range of 3.40-4.20, which indicates that the level *of repository* implementation in the indicators studied is in the "High" category.

Table 12. Information Contained in the *Repository* Service at the Technical Implementation Unit
(UPT) Sriwijaya University Library Has Facilitated Library Users

No	Category	Score	Number of Respondents (N)	Questionnaire Score (X)	Mean (X)
2	Strongly Agree	5	200	1000	$X = \frac{\sum X}{N} = \frac{1548}{418} = 4,26$
	Agree	4	155	620	
	Undecided	3	43	129	
	Disagree	2	15	30	
	Strongly disagree	1	5	5	
	Number		**418**	**1784**	

Table 12 shows the distribution of respondents' answers, where 200 respondents answered "strongly agree", 155 respondents answered "agree", 43 respondents answered "unsure", 15 respondents answered "disagree", and 5 respondents answered "strongly disagree". Based on statistical calculations using the mean method, the average value obtained was 4.26. Referring to the assessment interval range, this score is in the range of 4.20-5.00, which indicates that the level of *repository* implementation in the indicators studied is in the "Very High" category.

f. Grand Mean Sub-Variable

No	Sub Variable	Value	Category	Mean Sub Variable
Learnability	When I first used *the repository*, I easily understood how to use the service.	3.8	High	3.88
	I can easily obtain the necessary information through the *repository* service.	3.94	High	
Efficiency	I can use the *repository* service quickly, making my time more efficient.	4.05	High	4.1
	The repository service makes it easy for me to obtain full-text documents.	4.16	High	
Memorability	The navigation interface for exploring features and content on the repository service of the Technical Implementation Unit of the Sriwijaya University Library is	3.73	High	

	easy for users to remember.			
	Ease of interacting with the repository service system at the Technical Implementation Unit of the Sriwijaya University Library.	4.01	High	3.87
Error	I only experienced a few *errors* when using the repository service at the Technical Implementation Unit of the Sriwijaya University Library.	3.59	High	
	The *errors* found in the repository service of the Technical Implementation Unit of the Sriwijaya University Library can be easily fixed.	3.70	High	3.64
Satisfaction	I feel comfortable using the repository service at the Technical Implementation Unit of the Sriwijaya University Library.	4.16	High	
	The information available in the repository service of the Technical Implementation Unit of the Sriwijaya University Library has made it easier for library users.	4.26	Very High	4.21
Number		$\frac{39,53}{10}$		
Mean of All Sub-Variables		3.95	High	

Discussion

Usability Analysis by Dimension

a) Learnability

The average score of 3.88 indicates that students find the *repository* system easy to learn, both in terms of interface and menu navigation. This aligns with the findings of " , which emphasizes that *learnability* is the most dominant factor in increasing *repository* usage intensity. This means that the ease of understanding how the system works directly influences users' motivation to continue utilizing the service.

b) Efficiency

The *efficiency* aspect scored 4.10, indicating that users can achieve their search or document download goals quickly. This achievement demonstrates the effectiveness of

the system design in supporting fast response times and stable access. This result is in line with (Lestari, D., & Fauzan, 2022) , which states that an efficient *repository* system increases student productivity in preparing final assignments and research.

c) Memorability

The *memorability* dimension with a value of 3.87 indicates that users can easily recall how to use the system after a certain period of time. This reflects that the Unsri repository menu structure is quite intuitive and consistent. This finding supports the results of the study " , which found that *memorability* is an important indicator in maintaining the sustainability of repeated repository use.

d) Errors

The *errors* aspect recorded an average score of 3.64, indicating that the *repository* system is relatively capable of handling user errors such as login failures, incorrect password entries, or failed downloads. However, this figure also suggests there is room for improvement, for example through enhancements to the search system and the provision of more informative error messages. These results are in line with the findings of " , which emphasizes the importance of *error recovery* in improving user comfort in web-based systems.

e) Satisfaction

The *satisfaction* dimension recorded the highest value of 4.21 (very high category), indicating that users are satisfied with the appearance, functionality, and ease of access to the repository. This high level of satisfaction shows that *the* Unsri *repository* has met students' expectations in obtaining scientific references quickly and accurately. These results support the research " , which shows that user satisfaction with the repository is positively correlated with an increase in student information literacy.

a. Validity Test and Reliability Test

a) Validity Test

The validity testing of the research instrument involved 30 respondents to evaluate the validity of the questionnaire. The validity of each question item was determined using a comparison method between the calculated r and the table r. The r-table value was set at 0.361, referring to a significance level of 5% (0.05) with a sample of 30 respondents. The question items were considered to meet the validity requirements when the r-count value obtained was greater than the r-table value. The following are the results of the validity test on 10 questions:

Table 14. Questionnaire Validity Test

Calculated r	**Calculated r**	**Notes**
0.749	0.361	Valid
0.790	0.361	Valid

0.859	0.361	Valid
0.852	0.361	Valid
0.855	0.361	Valid
0.921	0.361	Valid
0.508	0.361	Valid
0.752	0.361	Valid
0.851	0.361	Valid
0.914	0.361	Valid

b) Reliability Test

Reliability measurements were conducted to evaluate the consistency and accuracy of the data collected. A research instrument can be considered to have good reliability if it produces a *Cronbach's Alpha* value above 0.60. All components of the questionnaire were tested for reliability on 30 respondents, with the following analysis results:

Table 15. Questionnaire Reliability Test

Cronbach's alpha	***N of items***
0.937	10

c) Data Normality Test

Before conducting further testing, a normality test was performed to ensure data distribution. The test results showed that all dimensions had a significance value (Sig.) > 0.05, so the data was declared to be normally distributed. This allowed for valid descriptive interpretation.

Table 16 Normality Test

		Total
N		418
Normal Parameters[a,b]	Mean	3.9803
	Std. Deviation	.43227
Most Extreme Differences	Absolute	.032
	Positive	.032

Negative		-.021
Test Statistic		.032
Asymp. Sig. (2-tailed)		.200[d]
Monte Carlo Sig .(2-tailed)[e]	Sig.	.783
	99% Confidence Interval Lower Bound	.773
	99% Confidence Interval Upper Bound	.794

Based on the table above, the significance value for the *usability* variable of repository utilization is 0.200. Because the result is 0.200 > 0.05, the data can be said to be normally distributed. Then, testing will be carried out using the T-test. The formula stipulates that H0 will be rejected if the significance result sig < 0.05. The following are the hypotheses set by the researcher:

Ha : There is repository usability for students of the Technical Library Unit (*UPT*) of Sriwijaya University.
Technical Library Unit (UPT) of Sriwijaya University.
H0 : There is no utilization (*usability*) of the repository by students of the Technical Implementation Unit
Technical Implementation Unit (UPT) of the Sriwijaya University Library.

Table 17. Hypothesis Test

Test Value = 5						
			Significance One-Side	Two-Sided		95 Confidence Interval of the Difference
	t	Df	Dp	Dp	Mean Difference	Lower
Total	27,447	417	.000	.000	.58030	.5387

Based on the results of *the One-Sample T-Test*, the t-value is 27.447 with a degree of freedom (df) of 417 and a significance value of .000. Because the significance value is < 0.05, the null hypothesis (H0) is rejected and the alternative hypothesis (Ha) is accepted. This indicates that the average *usability* of the repository by students is significantly higher than the reference value (test value = 3.40). In addition, the 95% confidence interval value is within .5387, which indicates that these results are consistent and reliable. Thus, it can be

concluded that the utilization of the repository by students of the Technical Implementation Unit of the Sriwijaya University Library is very high. These results show that students actually utilize the library repository in their academic activities.

1. Academic and Practical Implications

The findings of this study have several important implications:

a. Academically, these results reinforce the *usability* theory of " that user experience is highly dependent on the ease and efficiency of the system. A repository that is easy to learn and efficient encourages wider use among students.
b. Practically, these results can serve as a basis for the Technical Implementation Unit (UPT) of the Sriwijaya University Library to optimize search features and interface displays to be more *responsive*, as well as improve *error handling* aspects.
c. For system development, the high *satisfaction* dimension indicates the potential for continued use of *the repository*, but improvements in the aspects *of errors* and *memorability* are still needed to make the system more robust and easier to use on various devices.

Overall, the results of this study are consistent with previous studies (Lestari, D., & Fauzan, 2022) ; (Mahendra, 2023) ; (Santoso, 2023) , which all found that the *usability* level *of repositories* in Indonesian universities is in the high category.

Conclusion

The overall usability level of the Sriwijaya University Library UPT repository is high with an average score of 3.95, indicating that the system is effective in helping students access scientific works. The highest dimension is satisfaction (4.21), followed by efficiency and ease of learning, while the dimensions of errors and memorability still need improvement. This repository already fulfills its main function as a source of digital information, but improvements in error management and ease of use will enhance the user experience. These findings support usability theory and add to the evidence of the importance of error management in maintaining consistent system utilization.

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