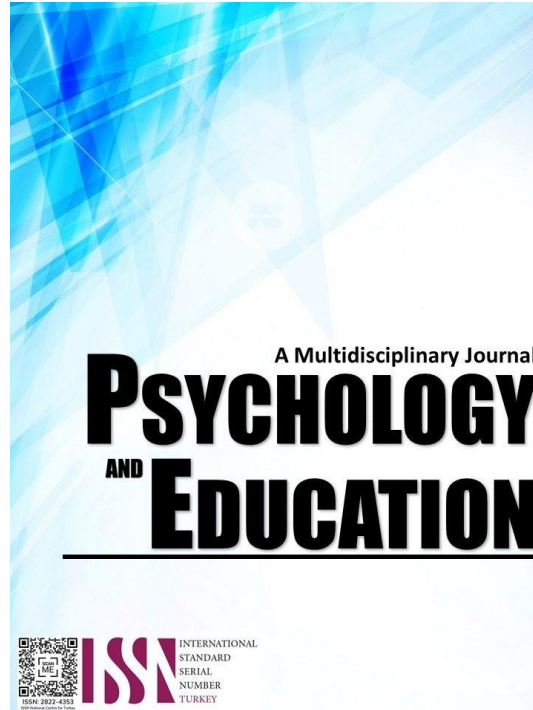


RISALIKSIK: DEVELOPMENT OF ONLINE RESEARCH LIBRARY IN RIZAL NATIONAL SCIENCE HIGH SCHOOL COMMUNITY



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Risaliksik: Development of Online Research Library in Rizal National Science High School Community

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Abstract

RISALIKSİK is an online research library developed from the platform carrd.co for the students and teachers of the Rizal National Science High School (RNSHS) to organize and provide access to academic resources for research writing. The website was made online to be accessible to students given the current pandemic situation. RISALIKSİK was sub-divided into three research areas, in which the RNSHS focuses on, namely: Life Sciences, Applied Sciences, and Descriptive Studies. The sample research manuscripts were gathered from Junior High School and Senior High School students. The website was evaluated by students, teachers, and ICT experts with corresponding factors. Convenience, reliability, and accuracy were evaluated by student and teacher respondents with respective overall mean values of 4.73 and 4.65 which interpreted as Highly Acceptable. Navigation, accessibility, security, and design were the factors evaluated by ICT experts with respective mean values of 4.86, 4.72, 4.30, and 4.64 which all interpreted as Highly Acceptable. The study concluded RISALIKSİK as an acceptable website for the community since there is no significant difference between the perceptions of student and teacher respondents in terms of the convenience, reliability, and accuracy factors.

Keywords: *online research library, online research, research, RISALIKSİK*

Introduction

Research papers, manuscripts, journals, and dissertations serve as primary sources of information, valued for their originality and reliability (Ajayi, 2017). These sources provide firsthand insights into various subjects, making them essential for academic writing, particularly in literature reviews. As Garcia (2017) states, primary sources offer direct accounts of topics from individuals with firsthand experience, fostering inquiry-based learning among researchers.

Despite technological advancements that have transformed information accessibility, the availability of free e-libraries remains limited. Many researchers and innovators have overlooked the existence of freely accessible online repositories, even though such platforms could significantly enhance research efficiency (Melo & da Silva, 2013). The Cyber World and the Web have revolutionized academic correspondence, breaking geographical barriers and providing an alternative to traditional print media (Basavanna, 2019). However, the lack of a centralized, institution-specific online research library remains a challenge for many schools, including Rizal National Science High School (RNSHS).

As a science-oriented institution, RNSHS requires a comprehensive digital repository that provides access to previous studies conducted by its alumni and locally relevant research materials. Currently, students face challenges in retrieving local literature and related studies, which hinders their research progress. Moreover, with the shift in learning modalities due to the COVID-19 pandemic, there is an increasing need for innovative educational resources (Pokhrel & Chhetri, 2021). Establishing an Online Research Library at RNSHS aligns with these evolving educational demands, ensuring that students and faculty members have seamless access to digital academic resources.

To address this need, the researchers developed RISALIKSİK, an online research library designed for RNSHS students and teachers. Built on the Carrd.co platform, RISALIKSİK organizes and provides access to academic resources, facilitating research writing. The platform categorizes research materials into three core areas—Life Sciences, Applied Sciences, and Descriptive Studies—aligning with RNSHS's research focus. Carrd.co, a user-friendly website builder, enables the creation of responsive, mobile-optimized web pages without requiring programming expertise, making it an ideal platform for this initiative.

To ensure the credibility of uploaded research manuscripts, a screening committee composed of Science, English, Research, and Math teachers will evaluate submissions. Students submitting research papers must complete a Google form, after which the committee will assess the study's quality, adherence to research ethics, and validity before approving its inclusion in the online library.

The effectiveness of RISALIKSİK was evaluated based on different criteria. Teachers and students assessed it in terms of convenience, reliability, and accuracy, while ICT experts evaluated its navigation, accessibility, security, and visual design. This assessment ensures that the platform meets the academic and technical standards required for a functional online research library.

Research Questions

The focus of the research was to determine the level of acceptability of RISALIKSİK: Development of Online Research Library in Rizal National Science High School Community. Specifically, the study sought to answer the following problems:

1. What is the level of acceptability of RISALIKSİK Online Library as perceived by Grade 10 to 12 RNSHS students with respect to:

- 1.1. convenience;
- 1.2. reliability; and
- 1.3. accuracy?
2. What is the level of acceptability of RISALIKSIK Online Library as perceived by RNSHS teachers with respect to:
 - 2.1. convenience;
 - 2.2. reliability; and
 - 2.3. accuracy?
3. What is the level of acceptability of RISALIKSIK Online Library as perceived by ICT/Computer Programming Experts with respect to:
 - 3.1. navigation;
 - 3.2. accessibility;
 - 3.3. security; and
 - 3.4. visual design?
4. Is there any significant difference in the level of acceptability of RISALIKSIK Online Library as perceived by the Grade 10 to 12 students and teachers?

Methodology

Research Design

The study employed a descriptive-comparative research design. This design will be used to determine the level of acceptability of RISALIKSIK: Development of Online Research Library in Rizal National Science High School Community. Hence, to compare the preference of the respondents in terms of the acceptability of the online library.

Respondents

A total of 10 respondents were chosen to become part of the study from Grades 10, 11, and 12 utilizing purposive sampling. Purposive sampling was also utilized in the selection of ten (10) teachers. In this case, the chosen respondents have a deeper background and experiences in terms of research such as being a mentor to student researchers, used to compete in research competitions, or joining a research expo. Another set of 10 respondents were ICT experts to objectively evaluate the website.

The level of acceptability of RISALIKSIK Online Library as perceived by Grade 10 to 12 RNSHS students and teachers with respect to convenience, reliability and accuracy; and the level of acceptability of RISALIKSIK Online Library as perceived by ICT/Computer Programming Experts with respect to Navigation, Accessibility, Security and Visual Design was evaluated utilizing 5 point Likert-Scale.

Procedure

Researchers obtained permission from the institution head to conduct the study and coordinated with mentors to collect finalized student manuscripts for the online library. Grade 10, 11, and 12 mentors provided lists of reviewed studies, and students granted permission to upload their work. Manuscripts, submitted as PDF files via Google Forms, were categorized into Life Sciences, Applied Sciences, and Descriptive Studies, with further subcategories for organization. After evaluating various platforms, Carrd.co was selected for website development. Wireframing was done to design the layout, and once all manuscripts were uploaded, the site was tested for functionality across different browsers and mobile devices before publication.

A screening committee of Science, English, Research, and Math teachers was formed to assess manuscript quality, research ethics compliance, and validity. Students submitting research in the future will complete a Google Form, and approved studies will be uploaded following the screening process.

The study employed purposive sampling, selecting 10 student and teacher participants with research experience and 10 ICT experts to evaluate the website. Data was gathered via online survey questionnaires and analyzed using appropriate statistical tools.

Data Analysis

The mean will be used in determining the level of acceptability of the RISALIKSIK: Development of Online Research Library in the Rizal National Science High School Community in the perception of teachers and students in RNSHS in terms of convenience, reliability, and accuracy. The mean will also be used in determining the level of acceptability of ICT experts in terms of Navigation, Accessibility, Security and Visual Design.

Independent T-test, an inferential statistical test, will be used to measure if there is a statistically significant difference between the perception of the 10 teachers and 10 students in RNSHS community.

Results and Discussion

The following tables show the results based on the statement of the problem of the research study.

Table 1. *Level of Acceptability of RISALIKSİK Online Library as Perceived by Grade 10 to 12 RNSHS Students with Respect to Convenience*

	<i>Convenience</i>	<i>Mean</i>	<i>VI</i>
1. It is easy to navigate and search. through the Risaliksik Online Research Library.		4.9	HA
2. The information provided is comprehensible, educational, and understandable.		5	HA
3. The Risaliksik Online Research Library is easily accessible.		4.9	HA
4. The Risaliksik Online Research Library provides a safer alternative than other online references and sources.		4.7	HA
5. The Risaliksik Online Research Library is easy to use and it is user-friendly.		4.9	HA
		4.88	HA

Legend: 4.20-5.00, High Acceptable (HA); 3.40-4.19, Acceptable (A); 2.60-3.39, Moderately Acceptable (MA); 1.80-2.59, Slightly Acceptable (SA); 1.00-1.79, Not Acceptable (NA)

As reflected in Table 1, with an overall mean of 4.84, RISALIKSİK Online Research Library concerning Convenience is verbally interpreted as highly acceptable. The Grade 10 to 12 students mostly regarded the website as convenient due to its accessibility, easy navigation and having useful information. Purdy (2012) revealed that students prefer research tools that are simple and transparent and that provide direct links to the materials they were looking for rather than just providing bibliographic information. It aligns with what RISALIKSİK Online Research Library offers to the students, being a user-friendly and comprehensive website both in phones and laptops.

Table 2. *Level of Acceptability of RISALIKSİK Online Library as Perceived by Grade 10 to 12 RNSHS Students with Respect to Reliability*

	<i>Reliability</i>	<i>Mean</i>	<i>VI</i>
1. The research studies found in the Risaliksik Online Research Library are all verified and safe to use as resources.		4.7	HA
2. There is enough coverage of research topics that is adequate for reference use.		4.6	HA
3. The research studies have been reviewed and validated before being uploaded to the website.		4.5	HA
4. The research studies found in the website are supported by sufficient evidence.		4.5	HA
5. The information available in the Risaliksik Online Research Library is consistent and steady.		4.7	HA
		4.6	HA

Legend: 4.20-5.00, High Acceptable (HA); 3.40-4.19, Acceptable (A); 2.60-3.39, Moderately Acceptable (MA); 1.80-2.59, Slightly Acceptable (SA); 1.00-1.79, Not Acceptable (NA)

As shown in Table 2, the reliability factor of RISALIKSİK Online Research Library is perceived as reliable by Grade 10 to 12 RNSHS students, with an average of 4.6 interpreted as Highly Acceptable. The students mostly regarded the website as reliable due to its validation of research studies with sufficient sources, enough coverage of studies, and adequate references for research purposes. The results show a relation to Shrestha's (2008) study which analyzed student's use of libraries. The study has found that students experience difficulties in accessing information in libraries. It was recommended by Shrestha that online libraries can help students access information more easily, which is shown in the results of this table.

Table 3. *Level of Acceptability of RISALIKSİK Online Library as Perceived by Grade 10 to 12 RNSHS Students with Respect to Accuracy*

	<i>Accuracy</i>	<i>Mean</i>	<i>VI</i>
1. The Risaliksik Online Research Library is up to date.		4.7	HA
2. There are no spelling, grammatical and typographical errors found in Risaliksik Online Research Library.		4.8	HA
3. The links in Risaliksik Online Research Library are all functional and useful.		4.7	HA
4. All information found in Risaliksik Online Research Library is efficient and factual.		4.7	HA
5. The research studies available at the Risaliksik Online Research Library are recent.		4.7	HA
		4.72	HA

Legend: 4.20-5.00, High Acceptable (HA); 3.40-4.19, Acceptable (A); 2.60-3.39, Moderately Acceptable (MA); 1.80-2.59, Slightly Acceptable (SA); 1.00-1.79, Not Acceptable (NA)

The Table 3 depicted that the RISALIKSİK Online Research Library, with respect to Accuracy as perceived by the Grade 10 to 12 RNSHS students got an average of 4.72 and interpreted as highly acceptable. The students regarded the website as accurate due to its timely, factual and grammatical content of research papers. As stated by Men and Onwukanjo (2017), the growing rate of literature explosion, which has resulted in an abundance of academic research materials available on the internet, has been a cause of worry due to its potential lack of accuracy. One of the edge of this RISALIKSİK Online Research Library is it makes sure that all uploaded research materials are all up-to-date and contain nothing but facts.

Table 4. *Overall Perception of RISALIKSİK Online Library as Perceived by Grade 10 to 12 RNSHS Students*

<i>Grade 10 to 12 RNSHS Students</i>	<i>Mean</i>	<i>VI</i>
Convenience	4.88	HA
Reliability	4.6	HA
Accuracy	4.72	HA
	4.72	HA

Legend: 4.20-5.00, High Acceptable (HA); 3.40-4.19, Acceptable (A); 2.60-3.39, Moderately Acceptable (MA); 1.80-2.59, Slightly Acceptable (SA); 1.00-1.79, Not Acceptable (NA)

As observed in Table 4, the overall perception of Grade 10 to 12 RNSHS for the RISALIKSİK Online Research Library is Highly Acceptable, with a mean of 4.73. It was revealed in the study of Brewer and Grondin (2017) that students were satisfied with the



resource and found Online Research Libraries useful. It was highlighted that the components of the guide that supported a successful search and assessment techniques were helpful.

Table 5. *Level of Acceptability of RISALIKSIIK Online Library as Perceived by RNSHS Teachers with Respect to Convenience*

<i>Convenience</i>	<i>Mean</i>	<i>VI</i>
1. It is easy to navigate and search through the Risaliksik Online Research Library.	4.8	HA
2. The information provided is comprehensible, educational and understandable.	4.8	HA
3. The Risaliksik Online Research Library is easily accessible.	4.9	HA
4. The Risaliksik Online Research Library provides a safer alternative than other online references and sources.	4.4	HA
5. The Risaliksik Online Research Library is easy to use and it is user-friendly.	5	HA
	4.78	HA

Legend: 4.20-5.00, High Acceptable (HA); 3.40-4.19, Acceptable (A); 2.60-3.39, Moderately Acceptable (MA); 1.80-2.59, Slightly Acceptable (SA); 1.00-1.79, Not Acceptable (NA)

Table 5 presented that the RISALIKSIIK Online Research Library, with respect to its Convenience as perceived by the RNSHS teachers garnered an average of 4.78 and interpreted as Highly Acceptable. The teachers regarded the website as convenient due to its user-friendliness and being easily accessible. Accessibility, connectivity, lack of suitable devices, and social problems represented by lack of contact and engagement with teachers and peers were among the key challenges that students faced, according to a report focusing on students' perspectives on E-learning. (Aboagye, Appiah, & Yawson, 2020).

Table 6. *Level of Acceptability of RISALIKSIIK Online Library as Perceived by RNSHS Teacher with Respect to Reliability*

<i>Reliability</i>	<i>Mean</i>	<i>VI</i>
1. The research studies found in the Risaliksik Online Research Library are all verified and safe to use as resources.	4.4	HA
2. There is enough coverage of research topics that is adequate for reference use.	4.5	HA
3. The research studies have been reviewed and validated before being uploaded to the website.	4.6	HA
4. The research studies found in the website are supported by sufficient evidence.	4.7	HA
5. The information available in the Risaliksik Online Research Library is consistent and steady.	4.4	HA
	4.52	HA

Legend: 4.20-5.00, High Acceptable (HA); 3.40-4.19, Acceptable (A); 2.60-3.39, Moderately Acceptable (MA); 1.80-2.59, Slightly Acceptable (SA); 1.00-1.79, Not Acceptable (NA)

As revealed in Table 6, the reliability factor of RISALIKSIIK Online Research Library was perceived as reliable by RNSHS teachers, with an average of 4.52 interpreted as Highly Acceptable. The teachers mostly regarded the website as reliable due to its validation of research studies with sufficient sources that are ample references in the future. The International Federation of Library Associations and Institutions (IFLA) (2011) mentioned in a report that teachers are stakeholders in encouraging students to utilize libraries for improving reading skills and comprehension. This report of IFLA supports the results of the study in which teachers of the institution gave an acceptable remark of RISALIKSIIK, as the website is helpful for the student's academic needs and promotes extensive academic reading.

Table 7. *Level of Acceptability of RISALIKSIIK Online Library as Perceived by RNSHS Teachers with Respect to Accuracy*

<i>Accuracy</i>	<i>Mean</i>	<i>VI</i>
1. The Risaliksik Online Research Library is up to date.	4.5	HA
2. There are no spelling, grammatical and typographical errors found in Risaliksik Online Research Library.	4.5	HA
3. The links in Risaliksik Online Research Library are all functional and useful.	4.9	HA
4. All information found in Risaliksik Online Research Library is efficient and factual.	4.6	HA
5. The research studies available at the Risaliksik Online Research Library are recent.	4.7	HA
	4.64	HA

Legend: 4.20-5.00, High Acceptable (HA); 3.40-4.19, Acceptable (A); 2.60-3.39, Moderately Acceptable (MA); 1.80-2.59, Slightly Acceptable (SA); 1.00-1.79, Not Acceptable (NA)

As presented in Table 7, with an overall mean of 4.864, RISALIKSIIK Online Research Library with respect to Accuracy was verbally interpreted as highly acceptable. The Grade 10 to 12 students mostly regarded the website as accurate due to its high level of functionality. Website functionality refers to how easily a user can navigate, acquire necessary information, and visit a website (Liao & Shi, 2017). This is what RISALIKSIIK Online Research Library excellently portrayed in the website.

Table 8. *Overall Perception of RISALIKSIIK Online Library as Perceived by RNSHS Teachers*

<i>Grade 10 to 12 RNSHS Students</i>	<i>Mean</i>	<i>VI</i>
Convenience	4.78	HA
Reliability	4.52	HA
Accuracy	4.64	HA
	4.65	HA

Legend: 4.20-5.00, High Acceptable (HA); 3.40-4.19, Acceptable (A); 2.60-3.39, Moderately Acceptable (MA); 1.80-2.59, Slightly Acceptable (SA); 1.00-1.79, Not Acceptable (NA)

As observed in Table 8, the overall perception of RNSHS teachers for the RISALIKSIIK Online Research Library is Highly Acceptable, with a mean of 4.65. It was discovered in the study of Silk et al. (2015) that with empirical research residing largely in online sources rather than brick-and-mortar libraries, teaching students how to obtain scientific studies may be most effective when delivered through

online platforms.

Table 9. Level of Acceptability of RISALIKSİK Online Library as Perceived by ICT/Computer Programming Experts with Respect to Navigation

<i>Navigation</i>	<i>Mean</i>	<i>VI</i>
1. The Risaliksik Online Research Library is easy to navigate for students.	5	HA
2. Information can be found easily within the website.	4.9	HA
3. Specific information can be identified easily through the categories of research studies given.	5	HA
4. Hyperlinks function properly; direct the user to the correct content.	4.8	HA
5. Previous screens can be accessed again through backward links.	4.6	HA
	4.86	HA

Legend: 4.20-5.00, High Acceptable (HA); 3.40-4.19, Acceptable (A); 2.60-3.39, Moderately Acceptable (MA); 1.80-2.59, Slightly Acceptable (SA); 1.00-1.79, Not Acceptable (NA)

Table 9 shows the RISALIKSİK Online Research Library was perceived as Highly Acceptable by the experts in the navigation aspect, with an average of 4.86. The experts mostly regarded this website as easy to navigate and information can easily be found due to categories provided. It was explained by Fang and Holsapple (2007) that websites with usage-oriented structure or a mixed hierarchy is a navigation structure associated with significantly greater efficiency than subject-oriented structures. Thus, the results in the table represents significantly greater efficiency in its navigation.

Table 10. Level of Acceptability of RISALIKSİK Online Library as Perceived by ICT/Computer Programming Experts with Respect to Accessibility

<i>Accessibility</i>	<i>Mean</i>	<i>VI</i>
1. Risaliksik can be accessed through different devices easily.	4.9	HA
2. Risaliksik content sections operate in predictable manners.	4.9	HA
3. User registration makes Risaliksik safe to access.	4.4	HA
4. Control buttons lead the user to the appropriate command.	4.8	HA
5. Research manuscripts can be accessed easily without page redirection.	4.6	HA
	4.72	HA

Legend: 4.20-5.00, High Acceptable (HA); 3.40-4.19, Acceptable (A); 2.60-3.39, Moderately Acceptable (MA); 1.80-2.59, Slightly Acceptable (SA); 1.00-1.79, Not Acceptable (NA)

As revealed by Table 10, RISALIKSİK was perceived as Highly Acceptable by the experts with an average of 4.72. The experts mostly regarded the website as accessible due to its availability in different devices and its predictability. De Andres et al. (2014) explained that web accessibility entails removing the bulk of the barriers that keep individuals from utilizing the Internet. All persons, regardless of disability, should be able to use a computer system and the internet to access, perceive, interpret, navigate, and engage with it. RISALIKSİK having a simple and easy to use interface adheres to the meaning of being web accessible.

Table 11. Level of Acceptability of RISALIKSİK Online Library as Perceived by ICT/Computer Programming Experts with Respect to Security

<i>Security</i>	<i>Mean</i>	<i>VI</i>
1. The choice of platform to create Risaliksik is appropriate for the objectives and purpose.	4.4	HA
2. The choice of platform to create Risaliksik is suitable for storing important information.	4.5	HA
3. User log-in present in the website and helps monitor users of the website.	4.3	HA
4. Risaliksik cannot be easily accessed by non-members of the Riscian community.	3.9	A
5. Risaliksik adheres to copyright infringement policies in creating and distributing media online.	4.4	HA
	4.3	HA

Legend: 4.20-5.00, High Acceptable (HA); 3.40-4.19, Acceptable (A); 2.60-3.39, Moderately Acceptable (MA); 1.80-2.59, Slightly Acceptable (SA); 1.00-1.79, Not Acceptable (NA)

As presented in Table 11, the security of RISALIKSİK was perceived as Highly Acceptable by the experts with an average of 4.3. The experts mostly regarded the website as secured due to its choice of platform that is suitable for storing important information. Goutam (2015) stated that unauthorized persons or agencies can gain access to sensitive personal information leading to identity theft and misrepresentation. This highlights the importance of having a well-secured website, such as RISALIKSİK, for it contains files that may be subjected to copyright when it leaks.

Table 12. Level of Acceptability of RISALIKSİK Online Library as perceived by ICT/Computer Programming Experts with Respect to Visual Design

<i>Visual Design</i>	<i>Mean</i>	<i>VI</i>
1. Risaliksik Online Library contains a consistent and appropriate color scheme.	5	HA
2. Risaliksik Online Library is aesthetically pleasing.	4.5	HA
3. Elements present are simple and not distracting.	4.8	HA
4. Risaliksik Online Library has a balanced layout of elements.	4.4	HA
5. Elements are readable, understandable, and vivid.	4.5	HA
	4.64	HA

Legend: 4.20-5.00, High Acceptable (HA); 3.40-4.19, Acceptable (A); 2.60-3.39, Moderately Acceptable (MA); 1.80-2.59, Slightly Acceptable (SA); 1.00-1.79, Not Acceptable (NA)

The results displayed that the visual design of RISALIKSİK was perceived as Highly Acceptable by the experts with an average of 4.64. The experts mostly regarded the website as well-designed due to the elements present that are simple and not distracting.

Proper design has become a crucial component required to engage consumers of websites and mobile applications. When looking for information, students tend to have more conviction in a well-designed website and perceive it as more credible. Design components will have different impacts on the reader based on how and where they are used (Flavial et al, 2009).

Table 13. *Overall Perception of RISALIKSIIK Online Library as Perceived by ICT/Computer Programming Experts*

<i>Grade 10 to 12 RNSHS Students</i>	<i>Mean</i>	<i>VI</i>
Navigation	4.86	HA
Accessibility	4.72	HA
Security	4.3	HA
Visual Design	4.64	HA
	4.63	HA

Legend: 4.20-5.00, High Acceptable (HA); 3.40-4.19, Acceptable (A); 2.60-3.39, Moderately Acceptable (MA); 1.80-2.59, Slightly Acceptable (SA); 1.00-1.79, Not Acceptable (NA)

As observed in Table 13, the overall perception of ICT/Computer Programming Experts for the RISALIKSIIK Online Research Library is Highly Acceptable, with a mean of 4.63. The results are aligned to the findings of Sun and Yuan (2012) in the study of evaluating the trends in online library developments. Expert evaluation plays an important role in developing said websites to objectively assess the advantages and disadvantages of the website. The study highlighted the impacts of ICT to traditional libraries, this supports the importance of ICT expert evaluation conducted in this study.

Table 14. *Significant Difference on the Level of Acceptability of RISALIKSIIK Online Library as Perceived by the Grade 10 to 12 Students and Teachers*

		<i>Mean</i>	<i>Sd</i>	<i>Mean diff.</i>	<i>Sig</i>	<i>Ho</i>	<i>VI</i>
Convenience	Teachers	4.88	0.012	0.1	0.084	FR	NS
	Students	4.78	0.052				
Reliability	Teachers	4.6	0.1	0.08	1.0887	FR	NS
	Students	4.52	0.130				
Accuracy	Teachers	4.72	0.0447	0.08	1.0328	FR	NS
	Students	4.64	0.0167				

The gathered data from Table 14 flaunted the level of acceptability of RISALIKSIIK Online Library as perceived by the Grade 10 to 12 students and teachers. In the convenience factor, the study found that the Grade 10 to 12 students and teachers' perception have no significant difference, with a tabulated t value of 2.447 and computed t value 0.884 which both found RISALIKSIIK convenient to use. As revealed by the table, the reliability of the website perceived by the Grade 10 to 12 students and teachers have no significant difference, as the computed t value is less than the tabulated t value ($0.884 < 2.447$). Both the teachers and the students found RISALIKSIIK reliable. Lastly, the perception of Grade 10 to 12 students and teachers have no significant difference with 2.5706 and 1.0328 as tabulated t value and computed t value respectively. This means that both the teachers and the students found RISALIKSIIK was accurate. Ilahi et al (2017) analyzed the importance of digital libraries to the development of education and society. The results of the study correspond to the findings of Ilahi such that the perception of students and teacher respondents are the same regarding the effectiveness and importance of RISALIKSIIK. The RISALIKSIIK is both helpful for the improvement of student's learning as well as for the development of society, which happens because of the continuous conduct of research being encouraged through RISALIKSIIK.

Based on the findings of the study, the RISALIKSIIK Online Research Library is highly acceptable for Grade 10 to 12 RNSHS students and teachers in terms of convenience, reliability, and accuracy. The results also indicate that there is no significant difference between the perception of grade 12 students and science teachers in terms of its convenience, reliability, and accuracy of the RISALIKSIIK Online Research Library. The study concluded that the RISALIKSIIK Online Research Library resolves the continuous dilemma regarding the lack of valid online resources for academic papers. It delivers both to students' and teachers' needs, thus, provides an effective solution and puts an end to the current troubles people in the institution goes through. The website is recommended to upgrade the security of the Online Research Library to having a password that would make it more exclusive within the RNSHS community. The website can be upgraded to having keyword search for faster and easier searching of desired research studies. It is also suggested to utilize the use of archives wherein research studies are to be classified based on what year they were accomplished. In addition, it is also advised to have taskbar-like navigation on the homepage to further improve the interface of the users.

Conclusions

The study demonstrated that RISALIKSIIK Online Research Library is a highly acceptable platform for students, teachers, and ICT experts at Rizal National Science High School. Evaluations showed that the website excels in convenience, reliability, and accuracy, as well as navigation, accessibility, security, and visual design. The findings indicate that RISALIKSIIK effectively addresses the need for an accessible and credible repository of academic research, offering a structured and user-friendly system for organizing and retrieving research materials. Furthermore, statistical analysis revealed no significant difference between student and teacher perceptions, reinforcing the platform's overall usability and effectiveness.

To further improve RISALIHSIK, the study recommends enhancing its security features, such as implementing a password-protected system for exclusive access within the RNSHS community. Additionally, incorporating a keyword search function will facilitate faster retrieval of research studies. The development of an archive system categorized by research year can also enhance organization and accessibility. Lastly, refining the user interface with a taskbar-like navigation menu will further improve user experience. These enhancements will ensure that RISALIHSIK continues to serve as a valuable academic resource for the institution.

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