Development of the Turnitin System in Improving Plagiarism Detection for Islamic Religious Education Studies

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ABSTRACT

The development of the Turnitin system aims to minimize similarities in wording or sentence structure in scientific articles and papers. As a widely used plagiarism detection software, Turnitin provides a valuable solution for identifying and preventing plagiarism. However, it is crucial to adapt it to the specific needs of Islamic religious education at a private Islamic university. This research employs a field study approach to gather data directly related to the development of the Turnitin system, enhancing plagiarism detection for Islamic Religious Education. The study is qualitative, utilizing data collection techniques such as direct observation in university libraries and analyzing supporting documents, including books, journals, and other resources. The findings indicate that Turnitin effectively checks the level of similarity between sentences, words, paragraphs, and overall structures of written work against previously published material. Building a culture of trust, honesty, and professionalism is essential for maintaining academic integrity. In Islamic Religious Education studies, Turnitin sets a high standard for acceptable similarity percentages, capping it at 20%. This standard poses challenges, particularly in citations of Qur'anic verses and hadith, which are integral to the field. Nevertheless, enhancing plagiarism detection in Islamic education research underscores the importance of discipline and quality in authorship. The Turnitin system continues to evolve, presenting challenges and opportunities through features like Turnitin Draft Coach and traditional Turnitin services.

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1. Introduction

Writing a scientific paper is the process of presenting research results in the form of writing, which often faces problems related to the originality of a scientific paper. Competence in compiling scientific papers is important for students in supporting their academic achievement [1]. Scientific writing is an important bachelor's degree requirement (S1). It is a manifestation of students' ability to conduct research and present results in a structured and systematic manner. However, several problems are often experienced by students in compiling scientific papers, including not all students have good writing skills [2]. Some students struggle writing scientific papers, and some do not have a clear writing framework [3]. And lack of student understanding of the topic or problem to be researched [4].

On December 14, 2021, the Minister of Education and Culture issued a new regulation, namely Permendikbudristek No. 39 of 2021, concerning academic integrity in writing scientific papers, which replaces Permendiknas No. 17 of 2010 concerning the prevention and control of plagiarism in higher education. Negligence in adding references as a source of reference also often traps authors in the practice of plagiarism, either intentionally or unintentionally [5]. Plagiarism is a serious problem and is one of the main challenges in the academic world, especially in the university environment. The act of plagiarism harms the original author and damages the academic integrity and credibility of the educational institution. In Islamic education at private Islamic universities, the originality of written works is increasingly crucial, considering the ethical and moral values taught.

At private Islamic universities, plagiarism detection in Islamic Religious Education (PAI) studies still faces various challenges, including the limitations of effective detection tools and the lack of student awareness about the importance of originality of scientific works. This problem can hinder the development of students' critical and analytical skills and damage the institution's reputation. To address this problem, this study proposes developing a more effective Turnitin system for detecting plagiarism, specifically for PAI studies. Turnitin, a widely used plagiarism detection software, offers solutions to identify and prevent plagiarism [6]. However, it should be noted that there needs to be an adjustment to the context and specific needs of PAI studies at private Islamic universities. The proposed solution includes the integration of Turnitin with the Islamic literature database and adjusting detection algorithms to recognize religious texts.

Today, various plagiarism detection tools such as Turnitin, Grammarly, and Copyscape have been widely used in educational institutions. However, research shows that these tools have limitations in detecting plagiarism in the context of religious studies, mainly due to the lack of relevant databases and algorithms that are not adapted to religious texts [7].

The research offers novelty by developing a Turnitin system tailored for PAI studies, which includes integration with Islamic literature databases and customization of detection algorithms. This is expected to improve the accuracy of plagiarism detection and support better academic development in PAI. Previous research has explored various methods to improve plagiarism detection, including developing more sophisticated algorithms and integrating various databases. However, few studies have focused on plagiarism detection in the context of religious studies. A study by Ahmad (2020) shows that integrating plagiarism detection tools with specific literature databases can improve detection accuracy, but no one has researched the context of PAI. The results of the QSPM analysis by Arni et al. [8]. On plagiarism prevention strategies among final year students by the UTS library resulted in two alternative strategies with the highest TAS scores. The strategies are: first, increasing professional personnel and improving the quality of management and facilities in checking plagiarism (WO2), and second, implementing strict government policies related to higher education standards, especially regarding plagiarism (SO2). Suryana also stated that plagiarism has become a habit among students doing lecture assignments and those completing their final projects (thesis, thesis, or dissertation). This phenomenon occurs due to students' low self-efficacy and lack of confidence in completing assignments given by lecturers, so they deliberately copy other people's papers to get good grades [9].

Risparyanto stated that Turnitin is a web-based software popular in the academic world to check for similarity or plagiarism levels. Many universities require lecturers and students to use Turnitin before publishing scientific papers. Using Turnitin requires creating an account to log in to the platform. Turnitin has three types of accounts: administrator account, instructor account, and student account [10]. After students' papers were examined using Turnitin software, their understanding of plagiarism improved. In addition, Turnitin proved effective in reducing plagiarism among college students, with a p-value of 0.000, which is less than 0.05, indicating statistical significance. Turnitin's contribution to minimizing plagiarism reached 67.8%, influenced by the similarity of words or sentences taken from repositories, online journals, websites, and blogs available on the Internet [10].

This study aims to find out the impact of the Turnitin system on student behavior and attitudes towards academic integrity in the institution in the study of Islamic religious education, how the effort to develop the Turnitin system in private Islamic campus libraries, and how specific challenges and problems related to plagiarism detection in the study of Islamic religious education in private Islamic universities, by adopting an interview approach and qualitative. This study will evaluate the effectiveness of using Turnitin in improving academic quality and reducing the rate of plagiarism among students. Therefore, the author now raises the title "Development of the Turnitin System in Improving Plagiarism Detection for Islamic Religious Education Studies." This research contributes to developing a Turnitin system tailored for PAI studies at private Islamic universities, which is expected to improve the accuracy of plagiarism detection and support academic integrity. This study also provides new insights into the importance of adjusting plagiarism detection tools by maximizing the standard percentage in Islamic religious education studies by 20%, with verses of the Qur'an and Hadith that cannot be tolerated in article writing.

2. Method

This type of research is research (field research), i.e., obtained data from direct field research on the development of the Turnitin system in improving plagiarism detection for Islamic religious education studies. This qualitative research produces descriptive data in the form of written or spoken words from people and observed behaviors. The data collection technique uses direct observation in the university library, interviews with one of the reference and periodic service staff, and supporting documents such as books, journals, and other sources [11], [12]. This study uses a qualitative descriptive analytical approach, where the researcher examines an existing case, which involves collecting descriptive data in the form of written or spoken words from individuals as well as observed behaviors [13].
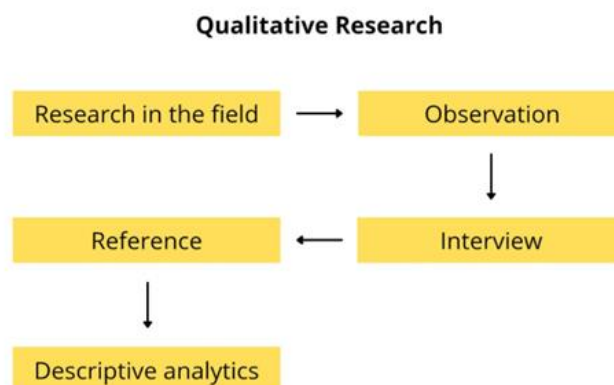

Fig. 1. Flow chart image

3.   Results and Discussion

3.1.   The impact of the Turnitin system on student behavior and attitudes towards academic integrity at the institution in the study of Islamic Religious Education

The rapid and increasingly sophisticated development of information and communication technology in cyberspace today has greatly contributed to strengthening relationships between humans in various parts of the world. The advancement of increasingly sophisticated technology significantly impacts various aspects of human life in the political, legal, economic, and socio-cultural fields. The development of science is also inseparable from the impact of technological advances [14].

According to Hulman Panjaitan, due to this technological advancement, students often use this as an easy shortcut to take opinions or ideas in other people's scientific papers. Especially scientific works sourced from the Internet by copying (copying paste) without including the source, which can be called plagiarism. This is not only found in the form of papers but also in the form of theses at the undergraduate level and theses and dissertations at the master's and doctoral levels [15].

3.1.1.   Definition of Plagiarism

Plagiarism comes from the United Kingdom language, namely plagiarism, which means plagiarism. Etymology and meaning of the word: It can be said that plagiarism is the act of stealing (ideas/intellectual works) of another person and claiming or announcing them as their own. In other words, plagiarism is an act of cheating carried out by plagiarizing or taking someone else's work (either in the form of ideas or writings) without including the source, which is then recognized as his work [16].

According to Rosalina Belinda (2010), plagiarism is the act of plagiarizing other people's ideas, ideas, or works to be recognized as one's work or using someone else's work without mentioning the source, thus causing wrong or erroneous assumptions about the origin of an idea, idea, or work [17]. In addition, some say plagiarism is an act of misuse, theft, appropriation, publishing, making a statement, or declaring as one's own a thought, idea, writing, or creation that belongs to someone else.

From some of the opinions above, it can be concluded that plagiarism is stealing or using an idea, the work of another person, by not including the source of the work, the owner's idea that is recognized as his work. This action is categorized as a violation and is prohibited in the world of education. According to recent facts, the act of plagiarism involves more universities. To be surer that the results of scientific papers are far from the element of plagiarism, we can use applications or software to check the plagiarism level in the writings we have produced [16].

Some paid and free antiplagiarism support applications, such as Turnitin, Wcopyfind, vyper, Plagiarism Detect, AiMOS, and so on. In addition, you can use Zotero, Mendeley, Endnote, and other applications for citation and bibliography management. This paper focuses more on minimizing plagiarism, namely by checking plagiarism with Turnitin. Turnitin is used to check the similarity of a scientific paper, thesis, or paper made to make it easier to check the act of plagiarism. The detection of plagiarism can foster academic integrity among scholars [18].

3.1.2.   What is Turnitin?

Turnitin is one of the plagiarism detection software developed by the University of California Berkeley through the company paradigms. This Turnitin functions to check the level of similarity between sentences, words, paragraphs, and word structures of a written work with a written work made by someone or a student with someone else's previously published own. The number of percentages (similarity) will be displayed based on these similarities. Turnitin is a text equation application that can compare the authenticity of written works with various written sources on the Internet, such as written articles, journals, books, etc. This application is often used by universities and colleges around the world as a tool to prevent plagiarism and guarantee the authenticity of student or researcher writing. In detecting the authenticity (originality) of the writing, this software applies a global-based cloud system [19]. Turnitin has been used by 126 countries, which consist of approximately 10,000 institutions. The working system of the Turnitin software application uses a web base that can be run using an account obtained with a rental system. In running this software,

users only need to browse; then, they will be asked to enter a username and password (www.turnitin.com). The Turnitin software will display several menus with instructions for its use. From some of these menus, users are directed to submit documents through one of the menus as the first step in detecting globally. The detection results will display the percentage (similarity) of plagiarism of a paper when compared to articles published in various online journals, repositories, and writings published on the web. Plagiarism detection can improve academic integrity [18].

3.1.3. Turnitin's Impact on Academic Integrity in Islamic Religious Education Studies

The word integrity is derived from the Latin integrity, which means wholeness, strength, untouchability, and wholeness [20]. The review of integrity in the context of education is known as academic integrity (academic integrity). The term academic integrity is widely used as a proxy for student behavior, especially related to plagiarism and cheating [21]. The International Center for Academic Integrity (ICAI, 2014) defines academic integrity as a commitment to five fundamental values, namely: honesty (honesty), trust (trust), justice (fairness), appreciation (respect), and responsibility (responsibility) [4]. These five values add courage to act in the face of difficulties that are fundamental to academics. Academic integrity can be defined as a commitment to honesty in one's work through the avoidance of behaviors such as cheating, plagiarism, and providing false information [5].

Lecturers and students actively apply Turnitin as one of the supports for academic integrity in higher education. Through this tool, lecturers can find out how well students are working on journal articles without using the similarity (equations) of words or sentences taken from copies on the Internet or in printed books. In this case, in several private Islamic universities in Indonesia, especially in the Islamic religious education study program, Turnitin is one of the enforcers of academic integrity that helps lecturers research student writing [19].

Based on interviews and surveys with several academics and students at one of the private Islamic universities in Indonesia, the campus has subscribed to Turnitin. The impact felt is very diverse; the impact for students is that one of them is to provide services and facilities so that it makes it easier for students to access the Turnitin software to fulfill the tasks given by lecturers. Students also feel other benefits, one of which is to make it easier for students to revise and improve the lecturer's assignment. Because, in turn, students can read the results clearly [22].

Apart from the impact on students, lecturers also feel the impact of this technology, one of which is to provide time efficiency to lecturers when lecturers want to correct the results of all students' assignments quickly through the access of the instructor provided by the campus; with that, lecturers can correct assignments quickly and precisely without taking a long time. Another impact of Turnitin on students is that there is a maximum standardization in Turnitin of 20%, including in the Verse [22]. The Qur'an and Hadith cannot be tolerated in the study of Islamic religious education, so students have difficulty with standardization. High standardization makes students study hard to understand articles and try not to easily copy and paste other people's writing [23]. The innovation of the writing work itself will spur students to compete to write with the best writing.

3.2. Turnitin System Development Efforts in Private Islamic Campus Libraries

The development of the Turnitin system in the libraries of Islamic private universities is a collaborative process that involves various parties such as faculties or study programs, librarians, and IT professionals. In the context of academic education, innovation is needed to deal with plagiarism by utilizing anti-plagiarism tools and references. This is very important given the rapid development of technology and rapid global information changes, especially in the era of the Industrial Revolution. In addition to academic education, innovation is needed to deal with plagiarism by utilizing anti-plagiarism tools and references 4.0 [1]. In the academic environment, the problem of plagiarism has existed for a long time. Plagiarism has seriously threatened the integrity of science [24].

This application faces various challenges as the campus seeks to improve academic integrity and encourage a culture of originality and reference preparation in research and writing [25]. The use

of Turnitin has sparked discussions about originality and how to properly structure references among students and lecturers, raising awareness of the importance of proper attribution and ethical writing practices. Academic integrity plays an important role, can reflect the character of the individual, and is often considered by the public as a parameter for the assessment of educational institutions [26]. This focus on academic integrity is not only important for maintaining the institution's reputation but also for preparing students for success in their future careers.

A commitment to academic integrity also builds trust in the campus community, as students, faculty, and staff can be confident that their work and achievements are recognized and rewarded based on merit. By upholding the standards of honesty and ethics, the institution provides a good example for students to apply after graduation, instilling the importance of integrity in all aspects of life [27]. Overall, prioritizing academic honesty is beneficial for every student and helps create a culture of excellence and professionalism that will last long after they leave campus.

Some Islamic private campuses have begun to provide training and support to their students on how to use Turnitin effectively to improve their writing and academic skills. This can at least reduce the level of plagiarism, and library staff have an important role to play in improving academic integrity, so students are able to show improvement in their ability to cite sources correctly and avoid accidental plagiarism, thus demonstrating the positive impact of the Turnitin system on academic integrity [6].

This includes offering workshops and tutorials on correct citation techniques and providing access to plagiarism detection software that students can use to check their work before it is submitted. Going forward, the campus should continue to promote ethical writing practices and provide resources to help students and faculty navigate the complex world of academic research and citation [28]. To strengthen these efforts, campuses should strengthen partnerships with faculty to ensure they have the necessary tools and knowledge to educate students on the importance of academic integrity.

Suppose a student receives a scholarship or award for academic achievement gained from their hard work and dedication. In that case, this can set a positive example and inspire them to continue excelling. However, if the award is obtained through dishonest means, such as cheating or plagiarism, to maintain the GPA and then receive this scholarship or award, it damages the student's integrity value. Cheating and plagiarism can hinder intellectual ability, set a bad example for student academics, and threaten the institution's academic integrity. But it reduces its value and creates a very bad example [29].

By fostering a culture of ethical writing and research, the campus can ultimately empower its students to become critical thinkers and scholars responsible for their academic pursuits. Campuses can apply stricter penalties for academic dishonesty to prevent their students from engaging in unethical behavior. By creating a supportive and educational environment, Islamic private campuses are expected to emphasize the value of integrity in academics and encourage students to be proud of their original ideas and contributions [6]. Ultimately, it fosters a community of scholars who prioritize honesty and ethical behavior in all aspects of their academic endeavors. By fostering a culture of academic honesty, the campus also promotes a sense of justice and respect among students, creating a more positive and supportive learning environment for all.

Each lecturer of the study program and student affairs staff are authorized to provide Turnitin services and make it easier for students to use Turnitin services when they have checked Turnitin and have not met the maximum Turnitin standardization of the study program. So, students can easily check and use the service to the end in accordance with the standardization of the study program for lecturers or student staff [30].

3.3. Turnitin's Biggest Challenge

Plagiarism often occurs among students, especially in writing scientific papers, paper assignments, and theses. Many students still rely on copy-paste practices from the Internet without listing the source of reference [2]. This has an impact on the lack of integrity and originality of students' scientific works, even though the works should be able to reflect their understanding and intellectual contributions to society [2].

Writing scientific-academic articles for students is certainly not easy, especially for those with minimal experience producing scientific papers. However, students are still required to have these writing skills. Among the various technical skills in writing, the ability to write originally without plagiarism is the one that needs more attention. This is important because in writing scientific-academic papers, citations, whether in the form of theories, ideas, or ideas from the source used as a reference, must be carefully considered to avoid plagiarism [3].

Starting with the quality competition between conventional and modern Turnitin, which is easily called Turnitin draft coach, the existence of Turnitin draft coach makes it easier for students to directly check draft writing. Turnitin draft coach will be enforced in 2023 due to consideration of student account limitations on conventional Turnitin. The Turnitin draft coach service can be accessed through Google Docs using the student's SSO account without waiting for validation from the library staff [31]. The first difference between the two Turnitin's is that.

Turnitin draft coach has three additional features compared to conventional Turnitin: similarity checking, grammar checking, and quotation checking. The use of unlimited similarity checking is used only 3 times on one Google document, while grammar checking and citation checking are used only 1 time per document [31]. The second difference lies in the display of results contained in the results that are relatively the same in percentage; Turnitin draft coach, by default, will not exclude a bibliography. The basic obstacle to the Turnitin draft coach is that some students do not know how to use Turnitin, so socialization continues to be carried out periodically every month to provide insight into the library for students [30].
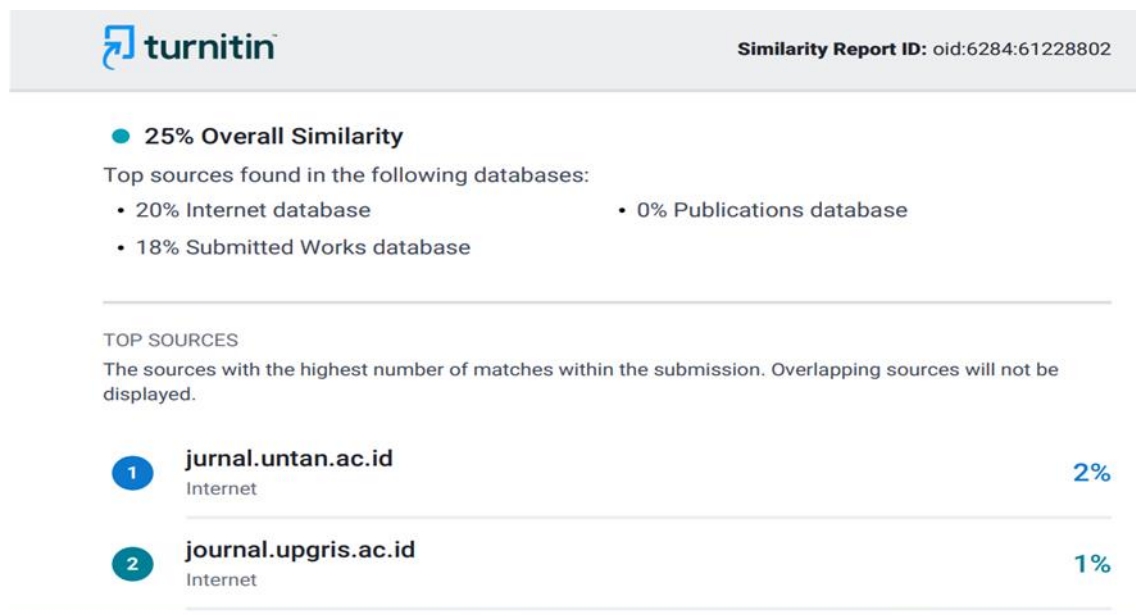

Fig. 2. Turnitin draft coach display results

The biggest challenge is using Turnitin Draft Coach. The features provided are limited, so it cannot be an accurate result for the student's final project. It is easy for students to do periodic checks

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if the Turnitin results still do not reach the maximum results determined by the study program or campus [31].

Fig. 3. Results of conventional Turnitin display

The biggest challenge in using conventional Turnitin is that not all students know if every lecturer has access to Turnitin provided by the campus and lecturers or student affairs staff who have not socialized this to students [31].

4. Conclusion

The academic integrity of the campus can be seen from the writing or publications uploaded on each campus. Turnitin is used to minimize plagiarism or similarity in the sense that here, the similarity of words or sentence forms, in the similarity of content, is more seen in the study of humans. The act of imitating another person's idea, thought, or work and claiming it as one's own or using someone else's work without giving proper credit creates a misunderstanding of the original source of the idea, thought, or work. The development of the Turnitin system on each campus has advantages and disadvantages in the implementation that have challenges from the side of students and the academic community to academic integrity to build trust and honesty and create a culture of excellence and professionalism that maintains the integrity of Turnitin. The biggest challenge faced is the emergence of the latest features provided by Turnitin, either Turnitin Draft Coach or conventional Turnitin. Various impacts can be felt by students and also the academic community, one of which is the maximum standardization in Turnitin of 20%, including in Qur'an verses and hadith, which cannot be tolerated in the study of Islamic religious education, so that students feel difficulties with the standardization as a support for working on articles or scientific work assignments so that they can find out the extent to which students work on articles without doing plagiarism (similarity) of words or sentences taken from printed books or online media. Therefore, Turnitin's integrity is expected to uphold honesty and boldness in writing so that writing innovation continues to develop.

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