

Research Article

The Role of Evaloexam in Fostering Technological Innovation and Entrepreneurship in Education

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Abstract: Innovation in the education sector has become increasingly important alongside the rapid advancement of digital technology, which has enabled the emergence of various platforms and applications designed to enhance teaching and learning quality. One area significantly impacted by this transformation is educational evaluation, where digital solutions offer more efficient, accurate, and data-driven assessment processes. This study aims to identify and analyze the role of the Evaloexam application in driving educational innovation while fostering the development of technological entrepreneurship among its users. The research employed a quantitative methodology using a survey approach involving educators and students at the senior high school (SMA) level who actively utilize the Evaloexam platform. A total of 100 respondents were selected through random sampling techniques, and data were collected over a one-month period using structured online questionnaires. The collected data were analyzed using both descriptive and inferential statistical methods to measure user perceptions, system effectiveness, and innovation impact. The findings indicate that Evaloexam plays a significant role in facilitating educational evaluation processes by streamlining exam administration, automating grading, and providing analytical insights into student performance. These capabilities contribute to improved efficiency, reduced administrative workload, and more objective assessment practices. Furthermore, the application encourages the development of technological entrepreneurship by stimulating user interest in digital product innovation, educational technology development, and technology-based problem solving. The results are consistent with prior studies emphasizing the positive relationship between technology integration and improvements in educational effectiveness and operational efficiency. Practically, this research suggests that Evaloexam and similar digital evaluation platforms hold strong potential for broader implementation within educational systems to support innovation ecosystems and technology-driven learning environments. However, this study is limited by its relatively small sample size, focus on a single application, and short data collection timeframe. Future research is recommended to involve larger and more diverse populations, extended study durations, and comparative analyses across multiple evaluation platforms to obtain more comprehensive findings.

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1. Introduction

Innovation in the education sector has become a major topic in various educational forums around the world (Fitriani, 2020). With the advancement of digital technology, new applications and platforms continue to emerge, offering innovative ways to enhance the quality of learning and education management (Hakim et al., 2024). One of the standout innovations is Evaloexam, an application specifically designed to assist the evaluation process in education. Evaloexam not only provides ease in compiling, distributing, and managing assessments but also plays a significant role in promoting innovation and technological entrepreneurship spirit among educators and students.

This application introduces a new approach to evaluation by offering various features that facilitate the evaluation process, such as automatic question creation, result analysis, and comprehensive reporting. With its ability to integrate with various other learning platforms, Evaloexam enables educators to adopt a more structured and efficient approach to assessment, thereby providing faster and more accurate feedback to students. However, the contribution of Evaloexam is not limited to just improving the efficiency of assessments.

The application has a broader impact by encouraging innovation in learning and evaluation methods. The use of AI inspires educators to think beyond conventional boundaries and explore new methods that are more adaptive to the needs of students in the digital era (Zahara et al., 2023). This aligns with the demand for more personalized and responsive education in response to technological developments. Furthermore, Evaloexam also plays a role in fostering the spirit of technological entrepreneurship in the education sector. As stated by (Diantama, 2023), by providing advanced and user-friendly technological solutions, this application opens opportunities for educators and students to develop their technological and innovative skills. The use of Evaloexam teaches them to think critically and creatively in solving problems and to adapt quickly to technological changes.

Previous studies have explored various aspects of technological innovation and entrepreneurship in education, such as the impact of online learning tools (Maruf & Anjely, 2020), the role of digital assessments (Kunnan, 2024), and the intersection of educational technologies and entrepreneurship (Purnomo et al., 2020). However, these studies generally focus on broad categories without examining the specific role of Evaloexam. This leaves a gap in the literature regarding how Evaloexam uniquely contributes to fostering technological innovation and entrepreneurship in educational contexts. This research aims to address this gap by assessing the specific impact of Evaloexam on these areas. This research aims to identify various ways in which the Evaloexam application can drive innovation in the education sector and explore how this application can foster the spirit of technological entrepreneurship (Pabubung, 2021). Through a deeper understanding of the role and impact of Evaloexam, it is hoped that effective strategies can be developed to utilize technology in improving the quality and effectiveness of education, and to prepare the younger generation for high skills and innovation spirit.

2. Literature Review

Innovation in education refers to the introduction and implementation of new methods, ideas, technologies, or products aimed at improving learning outcomes and enhancing the effectiveness of teaching processes (Indarta et al., 2022). Educational innovation encompasses not only the adoption of digital tools but also pedagogical transformation that aligns learning strategies with contemporary technological developments. The integration of technology into education enables more interactive, flexible, and student-centered learning environments (Almaiah et al., 2020). Factors influencing the success of educational innovation include technological readiness, institutional policies, infrastructure availability, and stakeholder engagement, including teachers, students, administrators, and policymakers. Strong collaboration among these stakeholders is essential to ensure that innovation initiatives are sustainable and aligned with curriculum objectives. Moreover, innovation in education also supports data-driven decision-making processes, where learning analytics can be used to evaluate student performance, identify learning gaps, and design targeted interventions (Radianti et al., 2020). As educational institutions continue to respond to digital transformation demands, innovation becomes a strategic necessity rather than an optional enhancement.

Technological entrepreneurship, commonly referred to as technopreneurship, involves the creation, development, and commercialization of technology-based products or services that generate economic and social value (Purnomo et al., 2020). Within the education sector, technopreneurship plays a pivotal role in accelerating digital transformation by encouraging the development of innovative learning solutions. These may include mobile learning applications, e-learning platforms, virtual classrooms, assessment systems, and other digital educational services designed to enhance accessibility and efficiency. Technological entrepreneurship not only fosters innovation but also creates opportunities for collaboration between academia and industry in developing scalable educational technologies. In practice, technopreneurial initiatives in education emphasize usability, scalability, and user experience to ensure that technological products effectively address real educational challenges. The emergence of platforms such as Evaloexam reflects how entrepreneurial approaches can be

applied to educational evaluation by transforming conventional assessment processes into digital, automated, and data-driven systems. Consequently, technopreneurship contributes not only to business value creation but also to educational quality improvement and learning ecosystem development.

Educational evaluation applications such as Evaloexam provide digital solutions designed to measure student learning performance more efficiently, objectively, and accurately (C. P. Pratiwi et al., 2022). These applications digitize assessment processes that were traditionally conducted manually, thereby reducing administrative workload and minimizing human error in scoring and data recording. Existing literature highlights that digital evaluation platforms can significantly streamline teachers' workflows by automating grading, generating performance analytics, and providing real-time feedback to students (Bond et al., 2020). Furthermore, such systems enable the storage and processing of large volumes of assessment data, allowing educators to conduct longitudinal performance analysis and competency mapping. The integration of evaluation applications also supports transparency and accountability in educational assessment by ensuring standardized scoring mechanisms. In addition, these platforms enhance accessibility by allowing students to complete assessments remotely through web-based or mobile interfaces. As a result, educational evaluation applications not only improve operational efficiency but also contribute to evidence-based instructional planning and continuous learning improvement (Holmes et al., 2022).

3. Materials and Method

This research adopts a quantitative design aimed at systematically collecting and analyzing data from application users (H. D. Lestari & Parmiti, 2020). The survey method is used as the primary approach to obtain relevant data from two target groups, namely educators and students (Pramana et al., 2020). By using surveys, the research can encompass a large number of respondents and provide a broader picture of perceptions and the use of the Evaloexam application in educational settings. The population in this study consists of all educators and students registered as users of the Evaloexam application at the high school level. To obtain representative results, this study uses a random sampling method to select a sample of 100 respondents from said population. Random selection aims to minimize bias and ensure that every member of the population has an equal chance of being chosen as a respondent.

Researchers use questionnaires as the main instrument for data collection. The questionnaires are designed with a combination of closed and open-ended questions. Closed questions allow researchers to obtain measurable and easily analyzed quantitative responses, while open-ended questions give respondents the opportunity to express their views and experiences more freely regarding the use of the Evaloexam application. Data collection is conducted by distributing the questionnaires online to the selected sample. The use of this method considers ease of access for respondents and efficiency in data collection. The data collection process takes place over a month, providing ample time for respondents to participate and fill out the questionnaire without feeling rushed.

Once data is collected, analysis is conducted using descriptive and inferential statistical techniques. Descriptive statistics are used to present an overview of the data obtained, such as frequencies, percentages, averages, and standard deviations. Subsequently, inferential analysis is applied to identify relationships and trends between the variables studied, as well as to test research hypotheses if any. This analysis aids in drawing data-supported conclusions, thus providing insights into user perceptions regarding the Evaloexam application.

4. Results and Discussion

The research results indicate that the Evaloexam application significantly facilitates the educational evaluation process. The majority of respondents agree that this application fosters innovation by introducing new ways to assess and analyze students' learning performance. Additionally, the use of this application has sparked interest in technological entrepreneurship among students and educators. These results suggest that the Evaloexam application can drive innovation through a more efficient and effective approach to educational evaluation. The involvement of technology in the evaluation process not only simplifies teachers' tasks but also provides useful data for data-driven decision-making. These findings are consistent with previous research showing that the integration of technology in education can enhance performance and efficiency (M. N. Hakim & Abidin, 2024). However, this research

contributes new insights by highlighting the aspect of technological entrepreneurship that was previously rarely discussed.

EvaloExam website <https://evaloexam.web.id> is an AI-based exam information system platform designed to simplify the education evaluation process through various innovative features. The platform offers the convenience of creating exam questions automatically using Generative AI technology, which analyzes module materials and student responses, and provides personalized evaluation reports to make learning more effective and relevant for learners. The ease-of-use feature is offered through one integrated dashboard for lesson management, modules, exam rooms, and results analysis. The simple and user-friendly interface design makes it easier for teachers and students to carry out the education evaluation process.

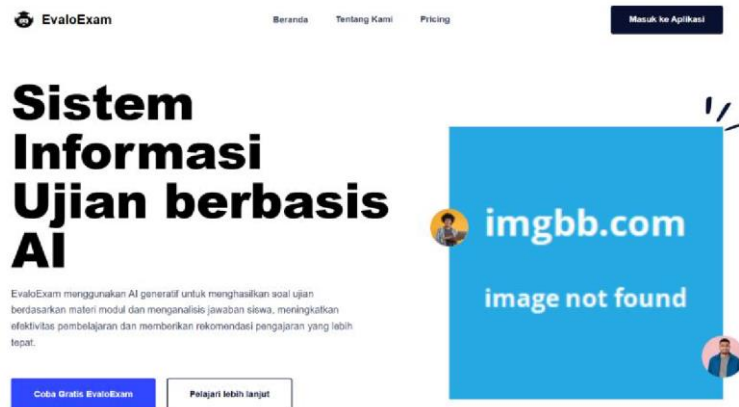


Figure 1. EvaloExam Website Interface

The quality and credibility of EvaloExam in Figure 1 are supported by its recognition as a finalist in prominent technology events such as the Indonesia AI Innovation Challenge 2024. This recognition reflects its commitment to efficiency, student creativity, and innovative solutions in modern education. The AI-based features of this platform help create exam questions that are not only relevant but also adaptive to students' learning styles, providing a more personalized learning experience and fostering deeper student engagement.

However, EvaloExam also has some shortcomings that need to be addressed. One of these is the lack of accessible pricing information directly from the main page, requiring users to navigate further to find details. Additionally, as a new service, EvaloExam has not yet accumulated enough user reviews on a broad scale to objectively assess its reliability and consistency. This poses a challenge for the platform in building trust among potential users. As noted by (Aditiawan & Soedarto, 2021), the privacy and security of user data are also areas that need more attention. More detailed information on data protection in its privacy policy can clarify EvaloExam's commitment to maintaining the security and confidentiality of users' personal information. Clarity in this area is crucial to attract and retain users' trust.

To mitigate these limitations and enhance the platform's value proposition, this study proposes an interface expansion through the integration of comprehensive analytical menus, as illustrated in Figure 2. The addition of features such as the AI Question Builder and a Metabase-style Learning Analytics Dashboard serves as a strategic response to the previously noted challenges regarding efficiency and data transparency. Through the Subject Performance Breakdown and Overall Grade Trends visualizations, EvaloExam evolves from a mere testing tool into an educational intelligence system capable of presenting intuitive, empirical evidence of student progress. This data-driven approach directly fosters user trust by providing objective and measurable insights into learning outcomes.

Furthermore, the integration of the Innovation Hub and Digital Credentials menus is designed to shift the platform's orientation from a basic evaluation tool toward a robust technopreneurship ecosystem. These features address the need for deeper student engagement by providing a dedicated space for exploring digital product innovation and verified achievement tracking. This development aligns with efforts to build long-term credibility, where system transparency in managing performance data and Self-Learning Management serves as a concrete manifestation of the platform's commitment to systematic data governance. Consequently, these strategic menu updates holistically bridge the operational gaps while reinforcing EvaloExam's position as a pioneer in adaptive educational innovation tailored to the demands of the digital industry.

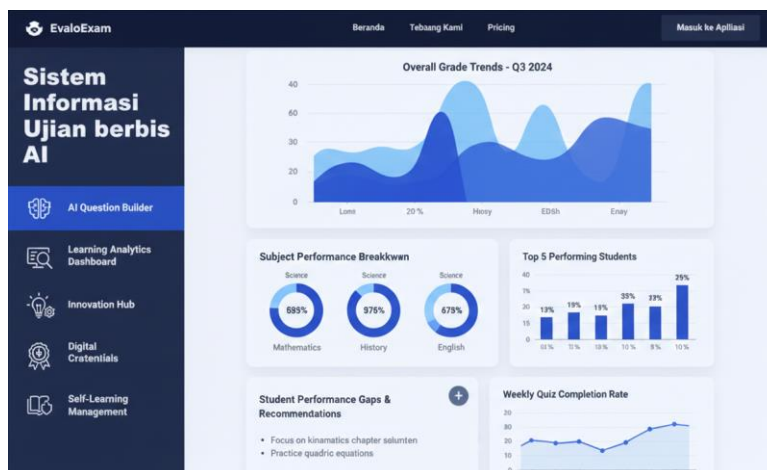


Figure 2. Proposed EvaloExam System Interface Enhancements

Overall, EvaloExam has great potential to support education with modern technology, especially in the context of AI-based teaching and evaluation. This platform is well-suited for educational institutions looking to enhance exam efficiency and provide a higher-quality learning experience through advanced technology. By increasing transparency in its pricing and data security policies, as well as gathering more user reviews, EvaloExam can further strengthen its position as an innovative solution in the educational world. For interested users, EvaloExam offers a free trial option that can be utilized to explore a variety of features offered.

6. Conclusion

This study concludes that the EvaloExam application plays a significant role in driving innovation within the education sector while simultaneously fostering the development of technological entrepreneurship. The implementation of this application demonstrates how digital evaluation platforms can transform conventional assessment processes into more efficient, accurate, and data-driven systems. By automating examination management, grading, and performance analysis, EvaloExam not only improves operational efficiency for educators but also enhances the overall quality of the learning evaluation process. Furthermore, the presence of such technology-based solutions creates opportunities for students and educational stakeholders to develop technological competencies and entrepreneurial mindsets, particularly in designing, managing, and commercializing digital educational products. The findings of this study highlight that adopting educational evaluation technologies can support institutional digital transformation, encourage innovation-driven learning environments, and strengthen the linkage between education and technology-based economic opportunities. Therefore, it is recommended that educational institutions actively integrate evaluation technologies such as EvaloExam to enhance educational quality, optimize assessment management, and inspire students to engage in technology and entrepreneurship fields.

Despite these contributions, several limitations were identified in this study that may influence the generalizability and interpretation of the findings. First, the research was conducted using a relatively small sample size, which may not fully represent the diversity of users' experiences, technological readiness, and institutional contexts. Second, the study focused solely on a single type of educational evaluation application, thereby limiting comparative insights into the effectiveness of different digital evaluation platforms. Third, the data collection process was carried out within a limited timeframe, which restricts the ability to capture long-term user adaptation, system sustainability, and continuous performance impacts. Consequently, future research is recommended to involve a broader and more heterogeneous sample encompassing multiple educational levels and institutional backgrounds. Longitudinal studies conducted over extended periods would provide deeper insights into user acceptance, system scalability, and long-term educational outcomes. Additionally, comparative analyses involving multiple evaluation applications are suggested.

to generate more comprehensive evidence regarding best practices, system effectiveness, and innovation potential in digital educational assessment ecosystems.

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