

Insights on usability testing: The effectiveness of an adaptive e-learning system for secondary school mathematics

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ABSTRACT

The study evaluates the Mythematics prototype, an innovative adaptive e-learning system designed specifically to enhance secondary school students' understanding and proficiency in mathematics. Utilizing a mixed-methods approach, it combines qualitative and quantitative research methodologies to thoroughly assess students' perceptions and experiences with the Mythematics prototype. The study involved a group of 30 students participating in a comprehensive usability survey, which included a range of Likert scale questions alongside an open-ended response. This survey was designed to evaluate the usability of the prototype, pinpointing its strengths and weaknesses from the students' perspectives. The analysis of the survey results provided detailed insights into the most and least effective aspects of the prototype. Overall, the study contributes valuable insights into the effectiveness of adaptive e-learning platforms in enhancing and enriching students' learning experiences in mathematics, and it lays the groundwork for future research in this evolving educational field.

Keywords: adaptive e-learning system, personalized learning, mathematics education, usability evaluation

INTRODUCTION

The digital revolution has led to significant changes in various sectors, notably in education, which has widely adopted these advancements. E-learning, leveraging electronic media and information technologies, has become a vital force in the educational landscape, offering enriched experiences, flexibility, and the capability to overcome both geographic and temporal barriers (Bell & MacDougall, 2013; Reeves et al., 2017). The significance of e-learning became even more pronounced with the onset of the COVID-19 pandemic. As schools and institutions worldwide grappled with closures, e-learning platforms provided the continuity needed to ensure that learning was not disrupted, highlighting their indispensable role in modern education.

Traditional e-learning platforms, often characterized by a static, one-size-fits-all approach, have shown limitations, particularly when addressing the diverse learning needs of students. Such platforms tend to offer the same learning experience for everyone, which may not suit each student's pace, preferences, and prior knowledge (Alghabban & Hendley, 2021). Adaptive e-learning systems are emerging as a better solution. These systems change in real-time to fit each student's learning needs, making sure the content matches their current understanding and pace (Taurah et al., 2020). They continually assess a student's performance and adjust the content, ensuring personalized instruction at the right level (Brusilovský, 2007; Sweta & Lal, 2017). In the context of secondary school education, adaptive e-learning system has marked out a significant role, especially when it comes to subjects like mathematics. The adaptive features of the e-learning systems provide a blend of interactive exercises, real-time feedback, and personalized learning paths, which offer students a dynamic way to engage with and understand mathematics concepts (Kem, 2022).

A strong mathematical foundation at an early level of education is crucial for school children. It leads not only to their academic success but is also the key to excelling in more advanced mathematics studies at the tertiary level (Musumanta et al., 2019). Furthermore, students with a good mathematical foundation may explore many other exciting opportunities in the expanding fields of science, technology, engineering, and mathematics (STEM) (Wang et al., 2013). These statements are true only if the instructional materials to teach mathematics are well-designed and effectively implemented. Research has shown that the quality of instructional materials significantly impacts students' learning outcomes in mathematics (Kul et al., 2018). Well-designed instructional materials can provide students with clear explanations, engaging activities, and opportunities for practice and application.

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