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International Conference on Sustainable Developments in Computer Engineering, Green Technology & Smart Systems : Submission (937) has been created.

1 message

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3 December 2025 at 19:34

Hello,

The following submission has been created.

Track Name: Track 2: Artificial Intelligence & Expert Systems

Paper ID: 937

Paper Title: AI-Powered Interactive Learning Management System for Primary Education Environments

Abstract:

This paper describes the design and evaluation of a light weight web-based Learning Management System (LMS) designed specifically for students in Primary School (Grades 1 - 7). Activities such as attendance, submission of assignments, access to class schedules and video-based learning are all combined into one easy to use, interactive interface designed for children. Additionally, to support both administrative and instructional requirements, the LMS also has a dual-function AI Chatbot that allows it to respond to routine operations and answer curriculum-related queries or questions. The front-end of this LMS is implemented with modern web-based technologies, React and Typescript, utilizing an offline-first architecture so it can provide maximum speed, minimum hardware resource requirements, and basic access for users in remote areas or low-stress school situations per the definition of lightweight web applications.

A controlled usability and performance-testing study conducted with a sample of students, parents and teachers provided evidence of increased efficiency and lower task completion times, combined with a high level of satisfaction reported by all users through a variety of metrics. These results support the conclusion that modular lightweight LMS solutions can be used to improve current administrative processes; further, that such systems can provide increased student engagement and support through the use of AI in resource limited environments.

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Secondary Subject Areas: Not Entered

Submission Files:

Paper on AI Powered Education__.docx (111 Kb, Wed, 03 Dec 2025 14:04:20 GMT)

Submission Questions Response: Not Entered

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