



D.SHASHIDHAR REDDY <dshashidharreddy28092004@gmail.com>

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

1 message

Microsoft CMT <noreply@msr-cmt.org>
To: dshashidharreddy28092004@gmail.com

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.

Created on: Wed, 03 Dec 2025 14:04:23 GMT

Last Modified: Wed, 03 Dec 2025 14:04:23 GMT

Authors:

- dshashidharreddy28092004@gmail.com (Primary)
- pamelavinita.eric@presidencyuniversity.in
- amog.m2004@gmail.com
- akshayalalitha1@gmail.com

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

Thanks,
CMT team.

Please do not reply to this email as it was generated from an email account that is not monitored.

To stop receiving conference emails, you can check the 'Do not send me conference email' box from your User Profile.

Microsoft respects your privacy. To learn more, please read our [Privacy Statement](#).

Microsoft Corporation

One Microsoft Way
Redmond, WA 98052