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Patent Search

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Abstract:

ABSTRACT: Title: LEXICA AR -- AN EDUCATIONAL CONTENT DELIVERY SYSTEM BASED ON AUGMENTED REALITY WITH TWO-TIER ARCHITECTURE ABSTRACT: The present disclosure provides a comprehensive AR-based educational content delivery system structured in a two-tier architecture comprising a faculty tier and a student tier. The faculty tier manages content upload, mapping, and management, while the student tier enables learners to access and visualize AR content through mobile devices. Built using React Native and Vuforia with Firebase as the backend storage solution, the system enhances educational content delivery efficiency and student engagement. The system streamlines communication between faculty and students through interactive AR experiences, ultimately aiming to improve learning outcomes and understanding of complex concepts.

Complete Specification**Description:**PREAMBLE TO THE DESCRIPTION:

The following specification particularly describes the invention and the manner in which it is to be performed:

Educational content delivery and student engagement have long been challenges in academic environments. Traditional teaching methods often struggle to effectively visualize complex concepts and maintain student interest. This invention addresses these challenges through an innovative augmented reality (AR) based system.

The Lexica AR System

This product innovation introduces the Lexica AR system, which represents the next generation of educational content delivery through advanced AR technology, featuring a two-tier architecture for faculty and students.

Technological Framework

Lexica AR is built using React Native and Viro React technologies, enabling seamless AR experiences across different mobile platforms. The system utilizes Firebase, a robust backend storage solution for managing educational content.

Real-Time Content Delivery

The system employs AR technology to deliver educational content in real-time, allowing students to visualize complex concepts through interactive 3D objects and 2D videos mapped to specific target images.

Applications Across Educational Sectors

Lexica AR serves the following areas:

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