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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (AI&ML)

MINI PROJECT II-II B.TECH

A-Y 2024-2025

Literature Survey Summary Report

Batch No: 40

Proposed Title: Online Quiz Platform Application

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1. Introduction

The advancement of digital education and online assessment tools has led to the development of quiz-based applications that facilitate learning, student engagement, and real-time evaluation. This literature survey aims to analyze various quiz-based applications, their methodologies, and their impact on education.

2. Background and Problem Statement

Traditional assessment methods require significant time and resources, leading to inefficiencies in grading and student evaluation. The adoption of quiz-based applications aims to streamline the evaluation process, enhance interactivity, and improve learning outcomes. However, issues such as connectivity challenges, gamification effectiveness, and usability constraints remain areas of concern.

3. Review of Existing Literature

S. No	Paper Details	Summary of Findings	Methodology Used	Key Contributions	Limitations	Future Scope
1.	Younten Tshering et al. (2020), "Quiz Desktop Application"	Developed a desktop-based quiz system to enhance student engagement and ease quiz administration.	Modern waterfall model for software development.	Automates quiz organization, score tracking, and reporting.	Limited to desktop platforms, lacks cloud-based support.	Expansion to online and mobile platforms.
2.	Wang & Tahir (2020), 'Effect of Kahoot! for Learning - A Literature Review', Computers & Education.	Proposed a web-based quiz system for automated student evaluation.	User authentication, test creation, and automatic result processing.	Reduces manual grading effort and provides instant feedback.	Requires stable internet connection for usability.	Integration with AI-based learning recommendations.

3.	M.S. Chakote et al. (2023), "Online Quiz Application Development"	Focuses on automating MCQ-based assessments to save time and improve accuracy.	PHP and MySQL for web-based implementatio.	Ensures secure student authentication and prevents re-attempts.	Lacks adaptive difficulty levels in quizzes.	Incorporation of AI-driven difficulty adjustments.
4.	Navneet Singh Malik et al. (2019), "Online Quiz Application", IJARND, Vol 4, Issue 5	The paper presents an online quiz system for automated examinations, reducing manual effort.	User authentication, timed quizzes, automated scoring, and result generation.	Efficient quiz platform, saves time, ensures security.	Lacks multimedia support, limited quiz formats.	Cloud integration, discussion forums, multimedia support.

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