

# Online Quiz System - Project Report

## Introduction

The Online Quiz System is designed to provide a digital platform for conducting quizzes in a secure, efficient, and interactive manner. The system supports user authentication, timed quizzes, real-time scoring, and result storage, making it suitable for educational institutions and online assessments.

## Abstract

This project focuses on building a Java-based quiz application with database integration. It ensures fairness by randomizing questions and applying a countdown timer. The system is capable of tracking user performance and storing results for future reference, enhancing learning and evaluation processes.

## Tools Used

**Programming Language:** Java

**Framework:** JavaFX/Swing

**Database:** MySQL

## Steps Involved in Building the Project

- a. Create DB schema for users, quizzes, and questions.
- b. Build a secure login system.
- c. Load and randomize quiz questions for each user.
- d. Implement quiz timer and scoring logic.
- e. Store quiz results in the database.
- f. Display results with correct answers for feedback.

## Conclusion

The Online Quiz System successfully provides a structured and efficient way to conduct quizzes. It ensures security, fairness, and transparency through randomized questions and automated scoring. The system can be extended for larger-scale examinations and integrated with learning management systems.