

Title: Quiz application

Abstract

The quiz application project is a comprehensive Java-based solution designed to facilitate quiz management and assessment for both teachers and students. The application incorporates a MySQL database to store quiz questions and student results, ensuring data integrity and efficient retrieval. The project comprises several classes, each serving specific functionalities. The `DatabaseConnection` class establishes a connection to the database, while `QuizQuestion` and `QuizDAO` classes manage quiz questions and their retrieval, respectively. The `QuizResult` and `QuizResultDAO` classes handle student quiz results, allowing for storage and retrieval. The `Teacher` class empowers teachers with the ability to add, update, and delete quiz questions, view individual student marks, and assess overall student progress. On the other hand, students can take the quiz, with each question presented alongside multiple-choice options. To enforce a time limit for each question, the `TimeLimitThread` class incorporates a countdown timer.

Upon launching the application, users are prompted to identify themselves as either teachers or students. Teachers are required to provide a password for authentication before accessing exclusive functionalities. These features include adding, updating, and deleting quiz questions, viewing student marks, and assessing overall student progress. Students can take the quiz, and each question is presented with multiple-choice options. The application includes a countdown timer to enforce a time limit for the quiz. Upon completing the quiz, students receive a comprehensive quiz certificate that includes their score, percentile, and grade. With its robust database management, user-friendly interface, and diverse functionalities, the quiz application project offers an effective and efficient platform for managing quizzes and assessing student performance in an educational setting.

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