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import java.sql.*;
import java.util.Scanner;

public class Exam {

    private Connection conn;
    private int userId;

    public Exam(Connection conn, int userId){
        this.conn = conn;
        this.userId = userId;
    }

    public void takeExam(){
        Scanner sc = new Scanner(System.in);
        try{
            Statement stmt = conn.createStatement();
            ResultSet exams = stmt.executeQuery("SELECT * FROM exams");

            System.out.println("Available Exams:");
            while(exams.next()){
                System.out.println(exams.getInt("id") + ". " + exams.getString("exam_name"));
            }

            System.out.print("Select Exam ID: ");
            int examId = sc.nextInt();
        }
    }
}
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sc.nextLine();

ResultSet questions = stmt.executeQuery("SELECT * FROM questions WHERE
exam_id="+examId);

int score = 0;

while(questions.next()){

    System.out.println("\nQ: " + questions.getString("question_text"));

    System.out.println("1. " + questions.getString("option1"));

    System.out.println("2. " + questions.getString("option2"));

    System.out.println("3. " + questions.getString("option3"));

    System.out.println("4. " + questions.getString("option4"));

    System.out.print("Answer: ");

    int answer = sc.nextInt();

    if(answer == questions.getInt("correct_option")) score++;

}

System.out.println("\nExam Finished! Score: "+score);

PreparedStatement ps = conn.prepareStatement("INSERT INTO
results(user_id,exam_id,score) VALUES(?, ?, ?)");

ps.setInt(1, userId);

ps.setInt(2, examId);

ps.setInt(3, score);

ps.executeUpdate();
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 } catch(Exception e){
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     e.printStackTrace();
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 }
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}
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