

Online Quiz Portal Documentation

Introduction

The Quiz Application is a web-based system designed to facilitate the creation, management, and administration of quizzes. This application allows administrators to log in, create quizzes, add questions with options, and manage quiz tables. Users (students) can log in to take quizzes, submit their answers, and view their scores.

Features

- **Admin Module:**
 - Secure login for administrators.
 - Create new quiz tables.
 - Add questions to existing quizzes.
 - Delete quiz tables.
- **User Module:**
 - Secure login for users (students).
 - Take quizzes and submit answers.
 - View quiz results.

Setup

Prerequisites

- Java Development Kit (JDK).
- Apache Tomcat or another servlet container.
- MySQL database server.

Database Configuration

- Create a MySQL database named **Quizes**:
- Set up database connection credentials in `com.dbconnection.DBUtil` class:

Deployment

- Build the project and generate a WAR file.
- Deploy the WAR file to your servlet container (e.g., Apache Tomcat).

Usage

- **Admin Login:**
 - Access the admin login page.
 - Enter valid admin credentials (Username: Admin, Password: admin123).

- **Create Quiz:**
 - After logging in as an admin, navigate to the quiz creation page.
 - Enter a unique table name and create a quiz table with questions and options.
- **Add Questions:**
 - Add questions to an existing quiz by providing question details and correct options.
- **Delete Quiz Table:**
 - Admins can delete a quiz table, removing all associated questions.
- **User Login:**
 - Access the user login page.
 - Enter valid user credentials (Username: Student, Password: Student123).
- **Take Quiz:**
 - Users can take quizzes by selecting answers for each question.
 - Submit the quiz for evaluation.
- **View Results:**
 - After submitting a quiz, users can view their scores.

Servlets Overview

- **adminlogin.java:**
 - Handles administrator login authentication.
- **createquiz.java:**
 - Creates a new quiz table in the database.
- **deleteTable.java:**
 - Deletes a quiz table from the database.
- **SaveQuestion.java:**
 - Saves a quiz question with options and correct answers.
- **SubmitQuizServlet.java:**
 - Processes submitted quiz answers and calculates scores.
- **userlogin.java:**
 - Handles user (student) login authentication.

Database Connection

The application uses the **com.dbconnection.DBUtil** class for database connections. Ensure that database credentials are configured correctly.