**Quiz Management System README**

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**Introduction**

The Quiz Management System is a console-based application designed for educational institutions to manage quizzes, student results, and user accounts. It provides separate interfaces for administrators and students, allowing administrators to create, view, update, and delete quizzes and manage user accounts. Students can log in, take quizzes, and view their results.

**Features**

* Secure login for both administrators and students.
* CRUD operations for quizzes (Create, Read, Update, Delete).
* Student quiz-taking functionality.
* Viewing and managing quiz results.
* Administrator user management (Create, Read, Update, Delete).

**Getting Started**

1. **Clone the repository:**

bashCopy code

git clone https://github.com/your-username/quiz-management-system.git

1. **Install dependencies:**

bashCopy code

cd quiz-management-system # Assuming you have Python installed pip install -r requirements.txt

1. **Run the application:**

bashCopy code

python quiz\_system.py

**Usage**

1. **Admin Interface:**
   * Log in with admin credentials.
   * Create, view, update, or delete quizzes.
   * Manage user accounts (create, view, update, delete).
   * Log out.
2. **Student Interface:**
   * Log in with student credentials.
   * Take quizzes.
   * View quiz results.
   * Log out.

**UML Diagrams**

**Use Case Diagram**

**Class Diagram**

**Requirements Engineering**

**Functional Requirements**

1. **User Authentication:**
   * Admins and students must log in with valid credentials.
   * Passwords must be securely hashed.
2. **Quiz Management:**
   * Admins can create, view, update, and delete quizzes.
3. **Student Operations:**
   * Students can take quizzes and view their results.
4. **User Management (Admin Only):**
   * Admins can create, view, update, and delete user accounts.

**Non-functional Requirements**

1. **Security:**
   * Passwords must be securely hashed and stored.
   * Data must be encrypted during transmission.
2. **Usability:**
   * The system should have an intuitive console interface.
   * Error messages should be clear and informative.
3. **Performance:**
   * The system should respond promptly to user inputs.

**Contributing**

Feel free to contribute to this project. Fork the repository, make your changes, and submit a pull request.

**License**

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