**Flashcard Application**

**Overview**

This is a Flask-based Flashcard Application that allows users to:

* View flashcards interactively.
* Administer flashcards (add/edit/delete).
* Upload and download flashcards in bulk via CSV.
* Use role-based access for admin and regular users.

**Features**

1. **User Authentication:**
   * Role-based access for admins and regular users.
   * Secure login with hashed passwords.
2. **Flashcard Management:**
   * Interactive navigation through flashcards.
   * Admin functionality to add, edit, or delete flashcards.
3. **File Management:**
   * Bulk upload flashcards using CSV files.
   * Download existing flashcards as CSV.

**How to Set Up**

1. **Install Dependencies:**
   * Create a virtual environment and activate it:

bash

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python -m venv venv

source venv/bin/activate # Windows: venv\Scripts\activate

* + Install the required packages:

bash

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pip install flask flask-login werkzeug

1. **Database Setup:**
   * Ensure the flashcards.db file is in the project folder. If it’s missing, create it:

bash

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sqlite3 flashcards.db < schema.sql

1. **Run the Application:**
   * Start the Flask development server:

bash

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python app.py

* + Access the app at http://127.0.0.1:5000/.

**Directory Structure**

graphql

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flashcard\_app/

│

├── app.py # Main application file

├── flashcards.db # SQLite database file

├── schema.sql # SQL file for database schema

├── templates/ # HTML templates

│ ├── base.html

│ ├── login.html

│ ├── flashcards.html

│ └── admin.html

├── static/ # Static files

│ ├── styles.css

│ ├── scripts.js

├── uploads/ # Directory for uploaded CSV files

├── README.md # This file

**Notes**

* The default admin credentials are:
  + **Username:** admin
  + **Password:** password
* Ensure the uploads/ directory has write permissions for file upload functionality.
* For security, update the app.secret\_key in app.py to a strong, unique key.