

## Author

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## Description

To design a flashcard web application with reactive & responsive UI. Application should have login/logout, dashboard, deck and card management etc, features. For each Flash card , user can review it as Easy, Medium OR Hard. Backend Jobs such as Export Decks & Export User Progress Report is implemented.

## Architecture:-

Project

- ➔ Demo Video
- ➔ Project Report
- ➔ Main.py
- ➔ Static Folder – CSS and JS Folders and Files
- ➔ Templates Folder – Dashboard.html, index.html, Play.html and Error.html
- ➔ Database Folder – Database.sqlite3
- ➔ Applications Folder – Controllers, Data Folder and file.

## DB Schema Design:-

### ■ users

#### ■ for storing users details

- id (Integer, Primary Key, Not Null, Unique, Auto Increment)
- email (String(64), Not Null, Unique)
- password (String(16), Not Null)
- fs\_uniquifier (String(225), Unique)
- correct (Integer, Not Null, Default=0)
- incorrect (Integer, Not Null, Default=0)
- roles (Relationship)

#### ■ roles for storing roles

- id (Integer, Primary Key, Not Null, Unique, Auto Increment)
- name (String(16), Not Null, Unique)

#### ■ users\_roles for storing relationships between users & roles

- id (Integer, Primary Key, Not Null, Unique, Auto Increment)
- user\_id (Integer, Foreign Key = users.id)
- role\_id (Integer, Foreign Key = users.id, Default=2)

#### ■ cards for storing cards

- id (Integer, Primary Key, Not Null, Unique, Auto Increment)
- question (String(64), Not Null)
- answer (String(64), Not Null)
- deck (String(16), Not Null)

- ❖ It has two login options (Administrator & User)
- ❖ Administrator Login Password is set to "P@ssw0rd"
- ❖ Administrator can view all users with their scores
- ❖ Administrator can view, create, modify, remove & export decks
- ❖ Users can view & review cards
- ❖ Users can export their progress report
- ❖ One card will be displayed at a time with 4 options
- ❖ Card can be reviewed as easy, medium & hard
- ❖ Correct response gives +2 points whereas incorrect gives -1
- ❖ Scores will reflect after exiting the session

**VIDEO: <https://youtu.be/GlR4qxJfnQE>**