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Description

To design a login authenticated web application having quiz like environment which calculates & stores the scores of each user after each game (set of 10 multiple choice questions having 4 options each) & also have three difficulty level (easy, medium, hard) options for users to choose from.

Technologies used

- Flask
for running web application
- Flask-SQLAlchemy
for connecting & querying database
- Flask-RESTful
for restful api
- Werkzeug.Exceptions
for HTTP exceptions
- Json
for formatting json
- OS

DB Schema Design

- users
for storing users details
 - user_id (Integer, Primary Key, Not Null, Unique)
 - username (String, Not Null, Unique)
 - password (String, Not Null)
 - score (Integer, Not Null, Default = 0)
- easy
for easy questions deck
 - word (String, Primary Key, Not Null, Unique)
 - synonyms (String, Not Null)
- medium
for medium questions deck
 - word (String, Primary Key, Not Null, Unique)
 - synonyms (String, Not Null)
- hard
for hard questions deck
 - word (String, Primary Key, Not Null, Unique)
 - synonyms (String, Not Null)

API Design

RESTful API is created using Python's Flask-RESTful library.
APIs are implemented for users & decks

Architecture and Features

- main.py
 - Project Report.pdf
 - Read_Me.txt
 - applications
 - apis.py
 - controllers.py
 - errors.py
 - models.py
 - database
 - database.sqlite3
 - static
 - css
 - index.css
 - js
 - quiz.js
 - templates
 - admin_dashboard.html
 - admin_login.html
 - decks.html
 - decks_level.html
 - error.html
 - index.html
 - play.html
 - play_level.html
 - user_dashboard.html
 - user_login.html
 - usres.html
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- ❖ It has two login options (Administrator & User)
 - ❖ Administrator Login Password is set to “P@ssw0rd”
 - ❖ New users can login directly & the password entered will be used for further logins
 - ❖ Old users have to use their previous password for authentication
 - ❖ Administrator can view all users with their score & all decks
 - ❖ User can only play the game
 - ❖ The game has three difficulty level options (easy, medium, hard)
 - ❖ Each game has a set of 10 multiple choice questions having 4 options each
 - ❖ One question will be displayed at a time
 - ❖ Scores will reflect at the end of game

Video

<https://drive.google.com/drive/folders/1QRjdNslIUDjA4LKNScSpTsVJXTAgaIKW?usp=sharing>