SPLOTCHIFY

Like Spotify, but for karaoke.

Creators

Priyanka Kishore

Description

SPLOTCHIFY is all the karaoke you'll ever need. Access millions (kinda) of songs, karaoke-style, and create playlists of your favorites. Keep track of your highest score on a song and join the conversation on every single one. Can't find your favorite? Add it for us!

Stretch Goals

(May not be achieved by due date. But it would be cool if I did.)

- View other user profiles
- Show lyrics to a song
- Use Spotify API to link to actual version of a song
  - Probably need user to sign in to their Spotify?
- Link to SingKingKaraoke for selected number of songs
  - Let user add YouTube link for a song they add
- User can rate each song based on difficulty

Requirement Satisfaction

Registration and Login

- Users *must* register for an account and login in order to create playlists, comment on songs, keep track of singing scores, and add songs to the database.

Forms

1. User registration
2. User login
3. Add song to database

4. Create new playlist
5. Comment on song
6. Edit user profile (time permitting)

Database

- MongoDB will store user account details (hashed passwords, emails, usernames), user song information (playlists, scores), and song information (song information, comments, etc).

Security

- The modules used to achieve a secure webapp includes:
    - Flask-Talisman (to set a CSP)
    - Flask-WTF (for CSRF tokens)

Blueprints

1. user account
    - with view functions to login, register, update profile
2. home/song database
    - with view functions for index, specific song
    - (maybe) top 10 or 100 songs (based on rating)
3. user actions
    - adding songs to database
    - creating playlist
    - commenting on a song
4. App description/about page

(Still kind of confused on blueprints, so may reorganize or come up with better blueprints!)

Presentation/Appearance

- Multiple templates for various pages
- Bootstrap
- CSS

New Python Package

- Flask_Mail will be used either for user registration email authentication, or notifying user when someone comments on a user's favorite song (or under some other condition).

Evidence of Usage

- Must generate a JSON/object and/or pre-fill database to store information on various songs to start with
- Will add sample profiles for at least 2 users, each with their own playlists, comments on songs, etc.

GitHub for SPLOTCHIFY

https://github.com/priyanka-kishore/SPLOTCHIFY