



AGH

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W KRAKOWIE**

Python in the enterprise

Project: Application for music listening and karaoke

Technologies: Python, Django

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Main functionalities.

- creating account,
- logging,
- view songs, search for song,
- showing details of song,
- play, pause, stop song,
- record user voice, analysis of voice, comparing with original, return result
- user ranking

Work by weeks

1. First week

- user stories,
- application scheme, db scheme
- endpoints,
- basic functionality
- github repo
- recording audio basic

2. Second week

- django apps installation
- logging, registering users
- setup templates folder with static .html, .css, .js files
- recording audio working
- creating branch for development

3. Third week

- prepare .css styles
- register, login, navbar, footer with styles
- create database models
- adding content do database
- list of songs and details
- sending mp3/wav files do database

4. Fourth week

- improve admin section to adding new songs
- player for listening to songs
- recording songs and send to backed for analysis
- setup analysis, reading files, getting frequencies from voice

5. Fifth week

- adding song to favourites
- returning result for vocal singing

- ranking of users
- multiple users in ranking

6. Sixth week

- check all tests
- manual testing
- improving application

First Week of Work

1. User stories.

As a user I want to:

- register to create account -> /register
- login to access main part of application -> /login
- see list of songs and search to pick the right record -> /songs
- see the song details, play and record the song -> /songs/<id>
- see ranking of user scores -> /ranking
- go to user panel to change some settings eg. avatar, password -> /settings
- analyze the song -> /analyze

We wrote user stories and set propositions about application endpoints.

2. Github repository.

Public repository was created with django application.

Peter2221 / Music-Karaoke-Django

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master 1 branch 0 tags Go to file Add file Code

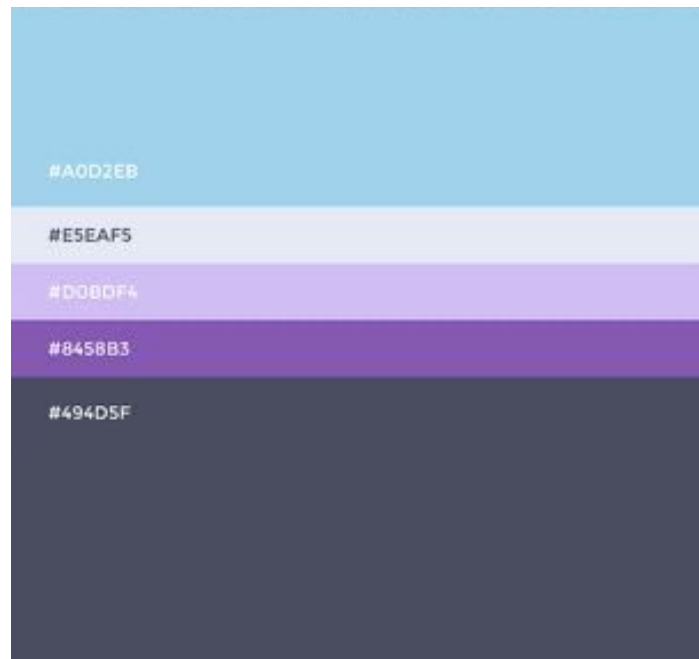
File/Folder	Description	Commit Date
AdrianS-labs implementation of registration and login system	6e6bfe2 4 days ago	4 commits
music_karaoke	implementation of registration and login system	4 days ago
rec	add recording functionality	5 days ago
.gitignore	first commit	8 days ago
Pipfile	first commit	8 days ago
Pipfile.lock	first commit	8 days ago
README.md	blank django app	8 days ago
requirements.txt	first commit	8 days ago

3. UI ideas.

- navbar
- register, login pages

- songs list with form to search
- song details, record player
- ranking
- user panel with settings

Color pallete:



4. Other work.

- recording audio with Javascript
- learning logging in Django
- setup database structure

Database structure:

