

Design Document:

Outline:

Sentiment analysis coupled with post generation using data from reddit posts of two subreddits. The user types in two subreddits and chooses a sentiment from a dropdown menu. The website pulls posts from the subreddit and passes them to a sentiment analysis API. Subsequently a post is created that incorporates emotion expressing keywords of the two personalities.

Go ahead and confuse yourself with the mixed qualities of /r/jokes with /r/antijokes, /r/theonion and /r/nottheonion, or /r/the_donald and /r/pyongyang.

Planned Components:

- Base functionality
- + Stretch goals
- Extra stretchy goals

Python:

■ Accessing Data from APIs:

- Reddit API
- IBM BlueMix API (Sentiment Analysis)
- **sentiment.py**: functions for interacting with the BlueMix API
- **readit.py**: functions for interacting with the Reddit API
- **wordmash.py**: functions for generating posts/comments using sentiment.py and tweet.py
- **app.py**: define routes and associated templates
- + **sql.py**: functions for interacting with the SQL database

+ SQL:

- + Store past mashes created by users. Allow browsing of this data on the homepage.

Database Schema

Subreddit1 TEXT	Subreddit2 TEXT	SubredditMash TEXT
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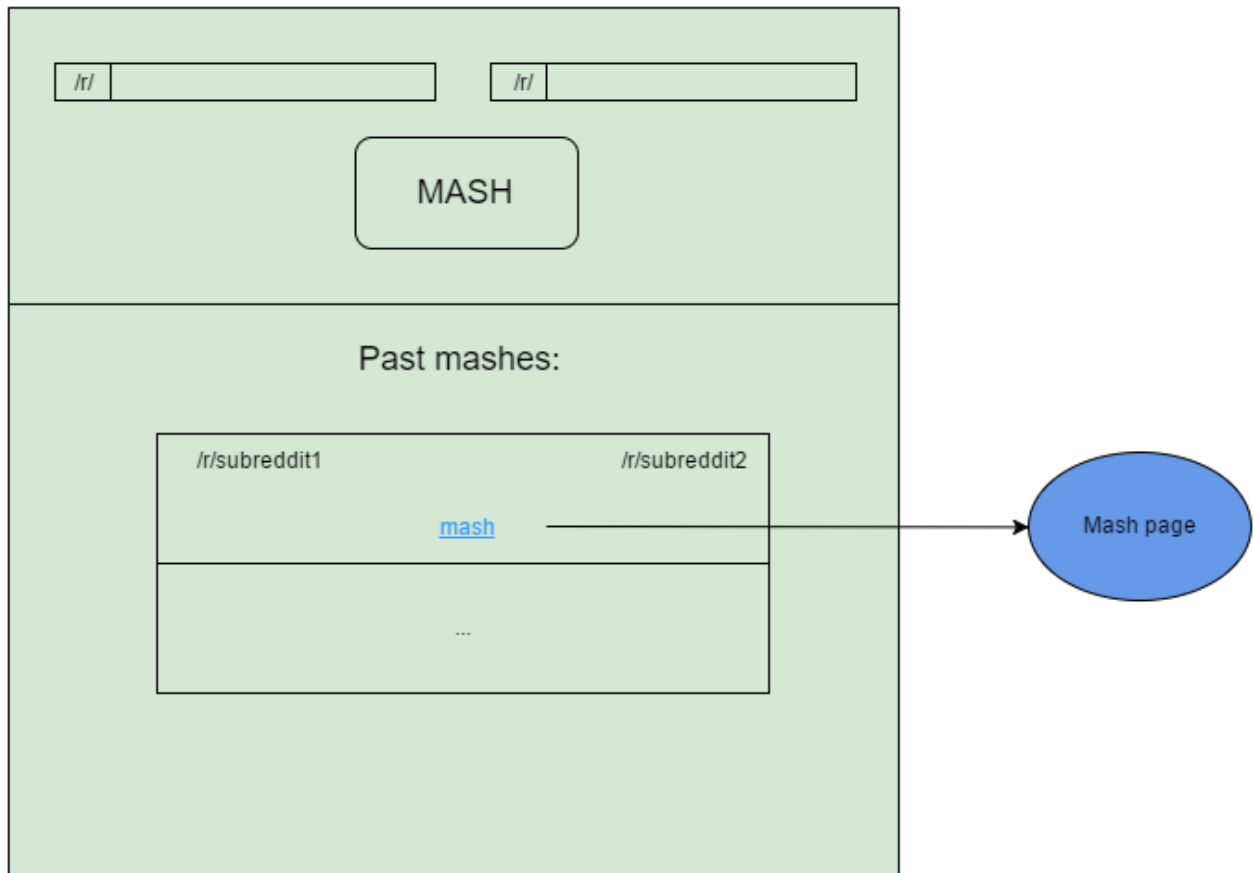
Frontend:

■ Routes

- ■ /
 - ■ Place for users to generate madlibs
 - + Has inputs for options, like what words to look for
 - + Homepage: display recent posts and queries
 - + Acquires data from SQL database.
- ■ /mashed/<mashid>
 - ■ Post is displayed

Design with Bootstrap. There are basically two pages, so the site map is simple:

Route: /, Title: Mash



Timeline of Completion:

- 12/6** - Simple folder structure, skeletons of app.py and python files, bootstrap files added
- 12/7** - Bootstrap website visible, integrated with app.py, API research finalized
- 12/8** - APIs working, can retrieve data, begin integration of Flask with frontend and python
- 12/9** - Begin work on mashing
- 12/10** - Implementation of major elements, making bootstrap look good
- 12/11** - Implementation of reach features
- 12/12** - Final morning bug testing

Division of Labor:

Gabriel - Word mashing
Kenneth - APIs
Wilson - app.py and SQL part

Karol - Project Manager and front-end