

# Survey Search

by Pawsitive Beth Bailey, Leoson Hoay, Ruixue Li https://github.com/bethbailey/survey-search

### Outline

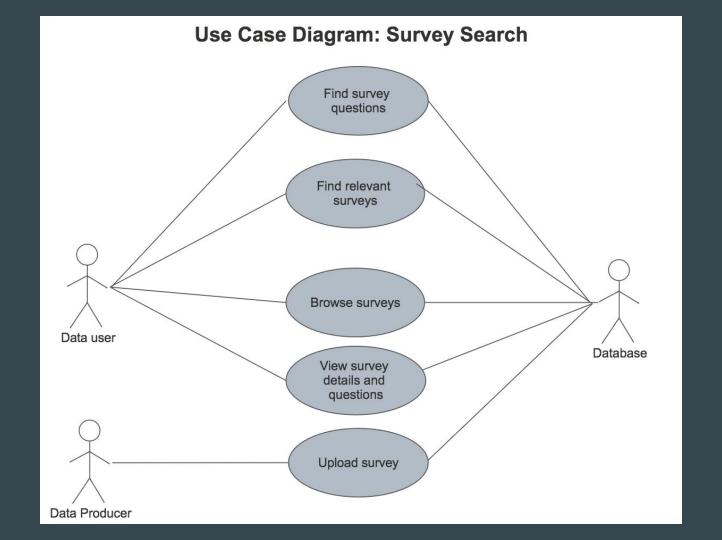
- Project Overview
- Site Structure and User Flow
- Awesome stuff we did
- Challenges we faced
- Future work
- Demo (Yay!)
- Questions/Comments

### **Project Overview**

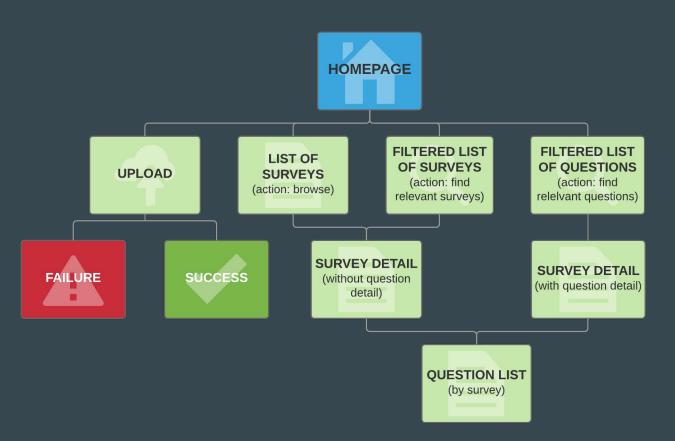
GOAL: Create an easy-to-use survey data repository.

What makes this **different** than other data repositories? Users can:

- 1. Search *multiple surveys* from different sources.
- 2. Search surveys on a *granular level* (for individual questions) as well as for entire surveys
- 3. *Upload and share* their own survey data



### **PAWSITIVE SITE MAP**



### Cool Stuff We Learned!

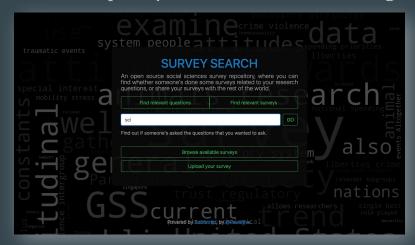
- Data processing/handling files in Python (pypdf2, docx2txt)
  - O Data from surveys, such as the GSS, Pew surveys, and IPSOS surveys,
- Lucidchart
- Building a website with Django

o oTF-IDF (term frequency-inverse document frequency) based custom search algorithm

(sklearn)

Bootstrap frontend

Word cloud generation



### **Challenges**

- Survey data cleaning is time-consuming and hard
  - Data is in many formats
  - Difficult to reuse code
- A lot of programming involves using resources and reading documentation
  - Don't be afraid to try things
- Django's modularity makes it versatile, but learning curve is steep
  - Integrating multiple modules: search, form, files, word cloud, etc.
- Learning the best practices of software development
  - Version control
  - Teamwork is hard, communicate with and love your teammates <3</li>

### Features to come?

- Shared search history/autocomplete
  - Visualization of search patterns
- Advanced query engine
  - A smarter search that accounts for typos and word similarity
  - Show similar surveys (possibly using doc2vec)
- Visualizations of survey data
- User file upload directly to site (alternative to links)

# Let's do a demo!

## **Questions/Comments?**



