Data Source + Description

We're planning to use recent-grads.csv, a data set from fivethirtyeight.com which contains information on how college graduates with various degrees have fared, on average, with a number of different types of information about each major. In particular, it gives the number of majors (broken down by gender), the share of majors who are women, the number of employed graduates, the number employed each of full-time, part-time, and full-time all year, the number of unemployed graduates, the portion of graduates who are unemployed, the 50th, 25th, and 75th percentile earnings for recent grads, and the number in jobs which require a college degree, do not require a college degree, or are low-wage service jobs (separate fields for each).
We acquired this data set through the fivethirtyeight repository on GitHub, and it can be found at the following link:
https://github.com/fivethirtyeight/data/blob/master/college-majors/recent-grads.csv
538 published the data set under the Creative Commons 4.0 International license, which allows for commercial and private use of the data along with modification and distribution of the data. The exact specifications of the license can be found at this link:
https://github.com/fivethirtyeight/data/blob/master/LICENSE

Intended Audience

The intended audience for an application using this data set is people deciding between different majors (i.e, high school students or college students) who would like additional economic information to inform their decision. Such an audience would be interested in information about how much each major pays, along with employment/unemployment rates.

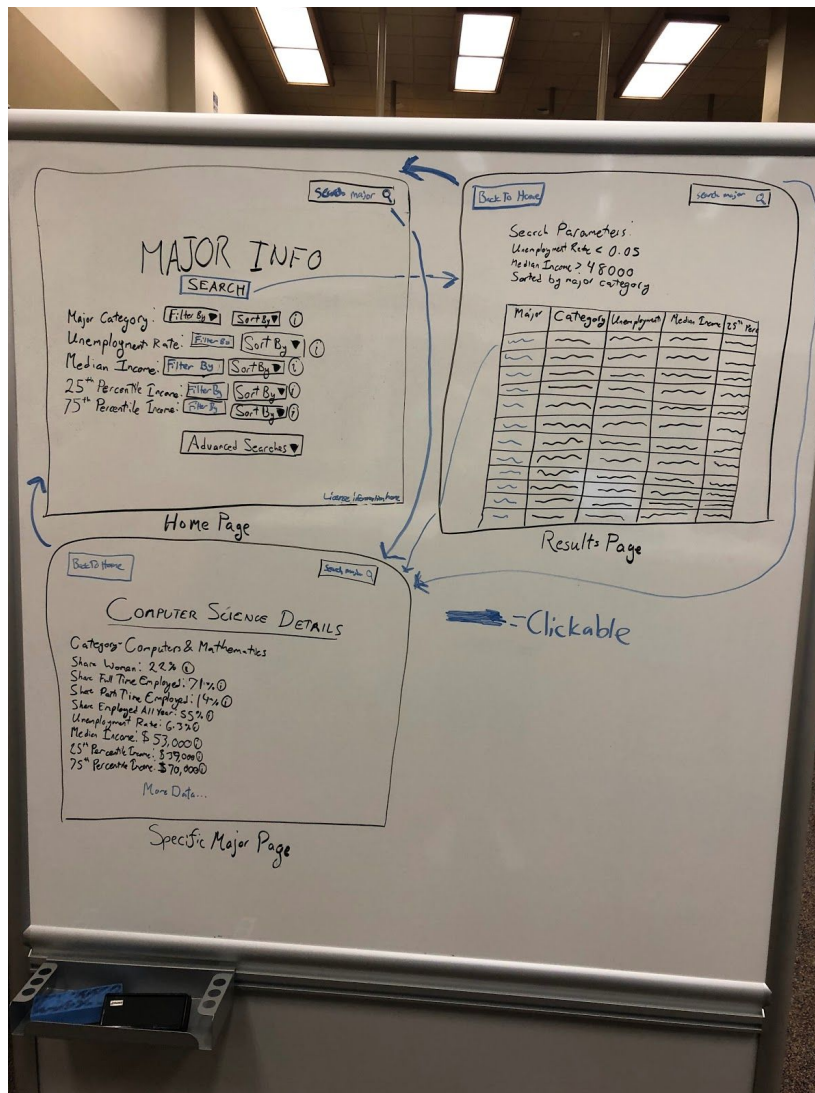# Key Functional and Nonfunctional Requirements

- Functional Requirements
  - Get the information for one particular major
  - Select a subset of majors
    - Select a (subset of) major category(ies) (e.g. Engineering)
  - Sort the table by/search by:
    - Unemployment rate
    - Median income
    - 25th Percentile income
    - 75th Percentile income
    - Probably other things as well
- Nonfunctional Requirements
  - Easy to read

- ○ Can spend a lot of time with the table without becoming lost
- ○ Intuitive to use for first time, quick to pick up

Key Features

1. Capacity to sort table by given parameter
2. Capacity to search/restrict table by given parameter
3. Capacity to examine data for a specific major

Mockups

We have mockups for the following pages:
- ● Home page/query page

- Results page for a subset of the data/response to a query
- Details of a single major