MaKERs
Software Development
Period 9
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Project Manager: Ryan

Naviance 2.0

Need help gathering information about the colleges you're applying to? Curious about a college's graduation rate? Naviance 2.0 will provide you with all the information you need on a single elegant page. Using the web application is simple and easy, and designed to minimize the clicking and searching required to find this information elsewhere on the interwebs. At the center of the application is a map of the college and its surroundings, designed to be interactive, with the power of Google Maps.

COMPONENTS

Back end

- main.py
  - Runs the application on localhost
  - Contains the views of the application
- api.py
  - Handles API usage and parsing JSON data
- config.json
  - Contains API keys and secret key
- db.py
  - Contains methods to interact with the database, app.db
- college_api_cache.sqlite
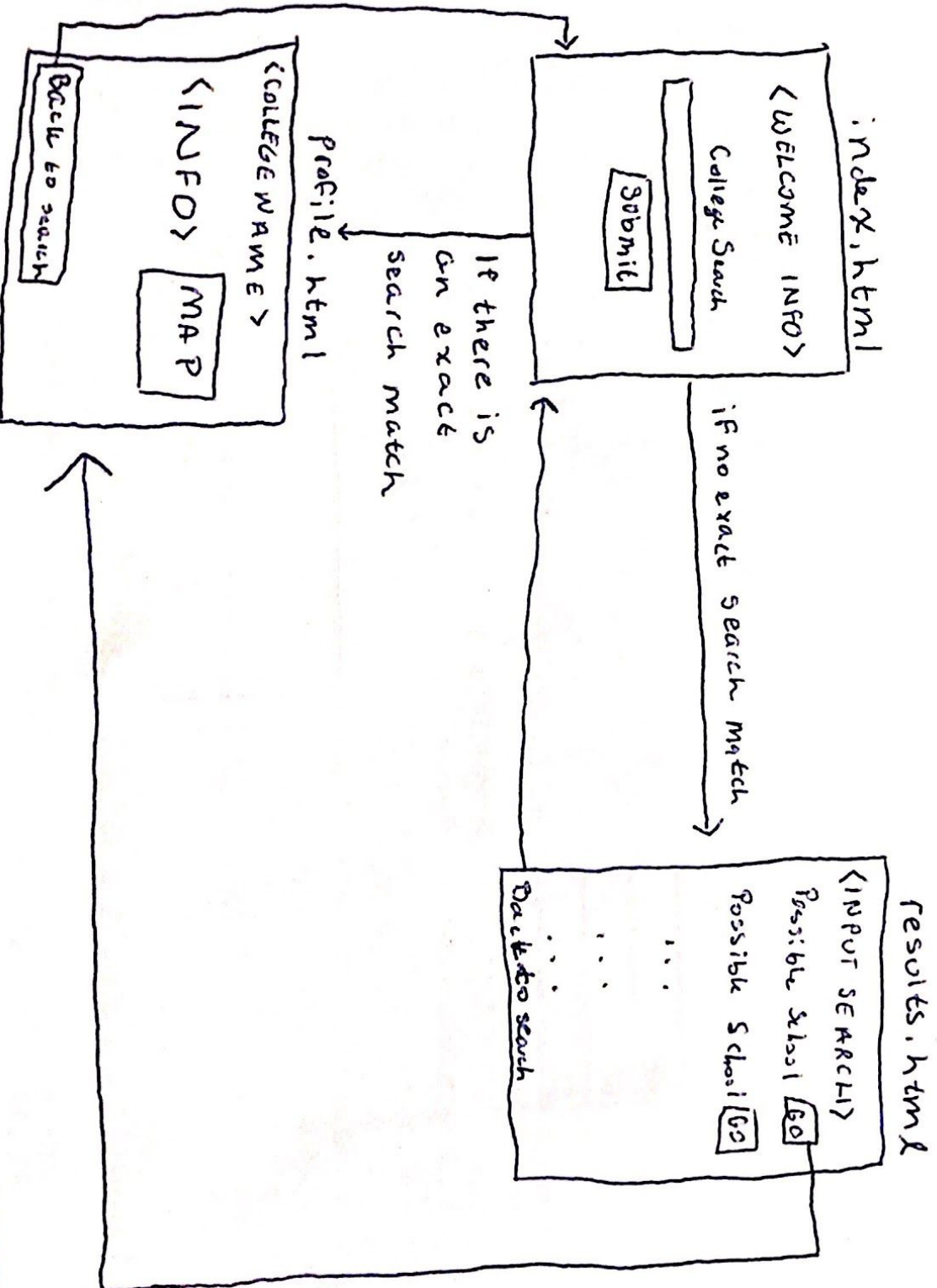 - Database that contains cached API calls

Front end (UI)

- base.html
  - Contains the base template for all of the application's HTML pages
- index.html
  - Contains a search bar for looking up a college
  - After a user searches, they are redirected to results.html or profile.html depending on whether there is an exact search result
- results.html
  - Contains search results (colleges) in a list
  - User can select to view a college, which will redirect them to that college profile page
- profile.html
  - Profile page of a college
  - Contains the colleges' information pulled from the APIs, including location, map of surroundings, etc.
- favorites.html
  - Contains user's favorited colleges
- CSS styling: Foundation
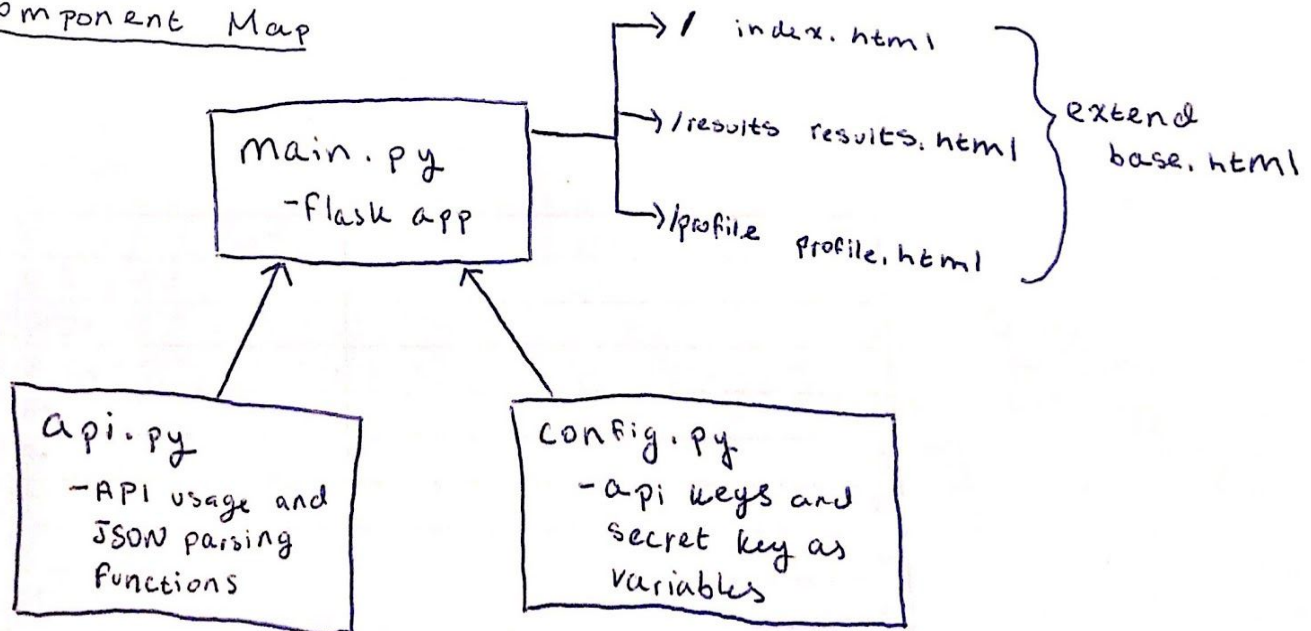 - Navbar and footer in the base

Profile page information (data as of 2015)

Median debt	# of enrolled students	City	State	School website URL
School price calculator URL	Pell grant rate	Women/men only	Average tuition	SAT scores
ACT scores	Overall acceptance rate	Degrees offered	Graduation/comp letion rate	Ethnicity data

Site Map

index.html

<WELCOME INFO>

College Search

[Submit]

if no exact search match →

results.html

<INPUT SEARCH>
Possible School [GO]
Possible School [GO]
. . .
. . .
. . .

Back to search

If there is an exact search match →

profile.html

<COLLEGE NAME>

<INFO>

[MAP]

Back to search

Component Map

DB Schema (stretch, see PLAN)

User

ID (unique identifier)	username (unique)	password (hashed)
5	bob	df98fhsofj4ioc

Favorite

college ID (from API)	user ID
5885436	5

APIs
Description
- College Scorecard API - https://collegescorecard.ed.gov/data/documentation/
  - Contains data on colleges throughout the country
  - Includes statistics of the college, including name, location, graduation rate, etc
  - Search parameter allows us to search for a college by name
  - Results are returned in JSON

- Google Maps Embed API -
  https://developers.google.com/maps/documentation/embed/guide
    - Gives image/map of a given location or place
    - Result must be the src of an <iframe> to render

Usage (how we'll be using them)

      We use a user's search query to request a list of schools and information from the College Scorecard API, and these results can be parsed to get the information. The Google Maps Embed API will be used to display a map of the college's surroundings.

PLAN

MVP

1. Project directory structure	11/17	Ryan
2. Functions for College Scorecard API, parsing	11/18	Michela
3. Application views	11/19	Michela, Kerry
4. Base template (including styling)	11/19	Ryan
5. Page templates	11/20	Edmond, Kerry
6. Render information on college profile page	11/20	Ryan

Stretch (accomplished)

1. Create DB (db.py)	11/23	Edmond
2. Database methods (db.py)	11/23	Kerry
3. Authentication functions (auth.py)	11/24	Edmond
4. Login/create account/logout pages and views (login.html, create.html)	11/24	Kerry
5. Favorites page and view (favorites.html)	11/25	Michela
6. Include nearby restaurants, libraries, activities, etc. using Google Maps API	11/25	Kerry
7. Error handling, searching for bugs	11/26	Everyone