Team BoneAppleTea Map Project

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What does our Website Do?

Our website will present users with data from the US Census API on a map of the United States based on inputs from the user.

File Structure

app.py
utils/
databaselO.py
apiManager.py
data/
censusData.db
templates/
main.html
static/

Descriptions

Code:

app.py

Bootstrap css

- manages the templates rendering and routing
- sends request to censusData.db to obtain census data
- If data is not in database, then the data is obtained from api using apiManager.py apiManager.py
 - request data from the API and returns it in a workable format
 - sends requested data to censusData.db using databaselO.py

databaseIO.py

• manages database file IO (ie reading to database and writing to it)

Database:

censusData.db

• stores all data obtained from census api, stores when requested by user

Templates:

map.html

• renders the map and presents the user with filters to change the data presented in the map

Apis:

US Census API:

- American Community Survey 1-Year Data
 - Provides social, economic, demographic, and housing characteristics of the U.S. population. Much of the ACS data provided on the Census Bureau's Web site are available separately by age group, race, Hispanic origin, and sex
 - http://www.census.gov/data/developers/data-sets/acs-1year.html
- Language Statistics: ACS (2013)
 - Lists all languages spoken in the United States that were reported during the sample period. These tables provide detailed counts of many more languages than the 39 languages and language groups that are published annually as a part of the routine ACS data release. This is the second tabulation beyond 39 languages since ACS began.
 - o http://www.census.gov/data/developers/data-sets/language-stats.html
- Population Estimates and Projections (2015, 2014, 2013 and 2012)
 - Population Estimates Program uses current data on births, deaths, and migration to calculate population change since the most recent decennial census and produces a time series of estimates of population, demographic components of change, and housing units.
 - http://www.census.gov/data/developers/data-sets/popest-popproj.html
- Economic Census (2012, 2007, 2002)
 - Government's official five-year measure of American business and the economy. Data from the Economic Census is important for your industry, your community and your business.
 - http://www.census.gov/data/developers/data-sets/economic-census.html

Maps API:

- Bing Maps
 - https://www.microsoft.com/maps/choose-your-bing-maps-API.aspx
- Google Maps
 - https://developers.google.com/maps/

Division of Labor

Farhan- Project Manager and back end and front end

app.py

Patrick- Back End

apiManager.py

databaseIO.py

Janet- Front End

map.html

Lindsey- Front End

Map.html

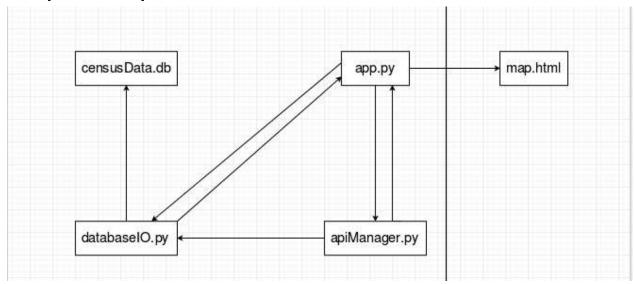
Schedule

- 12/2 Design Document Completion
- 12/6 apiManager.py finished
- 12/8 map.html finished, databaseIO.py finished
- 12/9 app.py finished
- 12/10 integration of backend with frontend
- 12/11 make sure all bugs fixed!!!

Site Map

	Border			
Border	U.S. Census Map view by Section1 Section2 Section3	Мар	Border	
Border				

Component Map



Database Schema

filter_name	api_information
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