



An application for choosing where to live

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With an increase in the number of people who move across cities and states, today many of us are faced with the question of where to live. Some are interested in warm climates, while others are looking for an industry hub to guarantee job availability. Our team will create an application that, given user ranking input, will suggest to the user US cities in which to live.

New Tools:

- Django
- Visualization tools: D3, JavaScript, Leaflet
- Recommendation Algorithm for ranking cities

Data Sources:

- Census: workforce by industry, ethnicities & race concentration, number of families with children, concentration of youth/seniors
- Census County Business Patterns: concentration of bars/clubs, LGBT businesses, industries present in the city
- US Bureau of Labor Statistics: Cost of Living Index
- US HUD: Crime Index
- WalkScore, including Bike and Transit Score
- National Center for Environmental Information: average temperature
- Department of Education: nearby accredited institutions
- Ourairports.com: nearby airports

Work Required:

- Gather data through scraping and APIs
- Clean data
- Build relational database
- Implement algorithm for recommendation
- Create Django project and put database into Django
- Create front-end user interface

Projected Timeline

Date	Deliverable	Owner
2/2	Data sources pulled	All
	Django app	Dani
2/4 Check-in	Wireframe built for critique, incorporate inputs	Anna
	Determine inputs & method for calculating attributes	All
2/9 Check-in	Data formatted	Dani & Alden
	First draft user interface, without maps	Anna
2/18 Check-in	Finish DB Structure	Dani & Alden
	Fully functioning user input interface & frontend, without maps done	Anna
2/25 Check-in	Working Algorithm	Dani & Alden
	Functional map & graph output	Anna
3/4	Marriage of frontend to backend and data	All
3/9	Final Presentation	All