

CAPSTONE ONE  
PROPOSAL  
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RELOCATION ASSISTANT - SUMMARY

When you're considering a move to another city or state, you'll want to consider the impact of your move. What's the Area Median Income? What are the demographics? Is there a State Income Tax? What's the price of an average home in the area? This app would use census and real estate data to present the user with a comparison of their current location to their new location over various data points. This one is my favorite - I think it could actually be a very useful tool.

**1. What goal will your website be designed to achieve?**

This website will give the user useful data to help determine the financial and social impact of relocating to another area.

**2. What kind of users will visit your site? In other words, what is the demographic of your users?**

Users will be adults who are considering relocating for a variety of reasons: work, family, new start, etc.

**3. What data do you plan on using?** I will be using primarily census data related to population demographics, area median income, housing costs, and crime rate. This will be compared to the user's current location and to the national average. I'm currently researching data sources for things like cultural diversity, amenities, etc.

**4. In brief, outline your approach to creating your project. Answer questions like the ones below, but feel free to add more information:**

**a. What does your database schema look like?**

Users: id(PK), first\_name, password, zip\_code, email

Cities: id(PK), name, state

Users-Cities: id(PK), user\_id(FK), city\_id(FK) ← join table

**b. What kinds of issues might you run into with your API?**

I need to research how a user might enter a city name and have that converted into a zip code (and vice versa), depending on what the API is looking for in the parameters. Also, if a smaller city/zip code is not represented in the data, does it default to the closest metropolitan area? I need to research that.

**c. Is there any sensitive information you need to secure?**

User passwords will be hashed.

**d. What functionality will your app include?**

Users can create an account to save their current location and favorites from searches, but users can conduct searches as a guest without creating an account.

Users with accounts can see a comparison table with all their favorites listed.

Users with accounts can change their information, including current location and password, at any time.

**e. What will the user flow look like?**

User will see a landing page that will prompt them to enter their current location, log in, or create an account. Users will then be able to enter the destination city and hit a button to compare data for both cities. Logged in users will have the option to save the destination city as a favorite. User can then conduct a new search, see a comparison of all their favorites, or change their account data. Logging out will return user to landing page.

**5. What features make your site more than CRUD? Do you have any stretch goals?**

More than CRUD: ability to create an account/log in, and ability to save favorites for later comparison.

Stretch goals: Using flask-email, maybe I can allow the user to email comparison data to themselves or someone else - some kind of report.