

First Meeting with Sachin

Meeting Date:

1/18/2023, 4pm EST (1pm PST) via Zoom

Interview questions:

1. Ask Sachin about himself

Took CS4760 previously. Works at Cloudflare with their API.

2. Overarching goals for project

People can access their own data for thermal and electric consumption. The scope of this is within those. Most people go about their days and lives consuming energy (leaving fans on, heat, etc.) without surfacing the data. Sachin's idea is to surface and determine things such as days of excessive energy usage which will allow for users to not only understand their energy consumption but also to reduce it. This is also important for users as companies can sometimes charge more money based on the time or day that energy is being consumed. This project will be a stepping stone towards helping people understand their energy consumption overall.

3. Who is the app going to serve?

This app should be able to serve the public and in turn should be kept as general/simple as possible. Everyday users should be able to utilize this application without difficulty and it should be easy to understand. Therefore the UI should give simple suggestions towards energy reduction.

Stakeholders will include homeowners and the API shall give them suggestions and comparisons relative to an "ideal home." The ideal home is an idea Sachin would like to work towards determining.

The app is primarily targeted at users that are not as energy/conservation minded.

4. How will we be utilizing the provided libraries (broadly)?

Sachin wants us to utilize libraries that make sense to us, the provided libraries are suggestions that are useful and well documented relative to our project and its goals.

C3Js is an abstraction of a lower level drawing language. It will allow for less cumbersome graphical representations.

5. Ask about the situation with the backend database, do we just query or is there more development to be done

Our job will mostly be front end development, but there will be little backend work for us to handle.

Sachin will write the backend including data that we will be using.

6. Ask about what information the API has and what data we'll need

Data availability is based on monthly time ranges. PG&E charges and aggregates data monthly.

We will be able to query from buckets including day, month, and year energy consumption data.

JSON format.

Sachin's GitHub:

<https://github.com/manatarms>