**Project Idea #1 Satellite / Space Station Tracker**

API Link:<https://www.n2yo.com/api/>

Summary:

Tracking Satellites and Space Stations in real time. Data is sent back in the form of JSON strings. It returns a lot of useful info, but the main info we need to know at the moment is the satellite ID, Satellite Name, Latitude, Longitude, and the altitude above sea level etc. Transactions limited to 1000 per hour. NASA also has the same API.

NASA API Link: <https://sscweb.sci.gsfc.nasa.gov/WebServices/REST/json/>

**Project Idea #2 Brewery “ROAD TRIP!!” planner**

API Link: <https://api.openbrewerydb.org/>

Summary:

Creating a Road trip map for for people who love breweries. Data is sent in the form of JSON string. The user would select from a list of breweries inside of the desired range, then the algorithm would find the shortest possible path in between the selected locations. We would also allow for the user to sort the breweries into subsets that match their style such as pubs, breweries, cider houses, and so on.

The api for that we could use for this, that is listed above, is free.

**Project Idea #3 Bitness**

API’s: Google Maps, Google Fit- possible

inclusions of other API trackers like NASA (for adding some varietal spice)

Summary:

Traditional RPG that only progresses while walking and running. May be able to include heart rate and other effects based on activity. Includes themed to-do list with goals and achievements.