Group 14 Project Proposals

1. **Description:** Maps out most well lit routes and safest routes in Boston for walking at night. Using google maps, give a handful of routes from point A to point B, and then rank them based on how many street maps there are / emergency lights give it a score. Potentially leave it up to the user to make the final choice what route to take, or choose by algorithm based on the highest safety score based on streetlight data.

**Database**: MongoDB, google map sign-ins?

**APIs** & **Datasets:**

* Bostoncoordinates of streetlight: <https://data.boston.gov/dataset/streetlight-locations>
* Crime rates: blue phone locations, property values, sidewalk cracks?
* Light Pollution: <https://www.lightpollutionmap.info/#zoom=4.00&lat=45.7116&lon=-51.3669&layers=B0FFFFFFTFFFFFFFFFF>

**Oauth**: Logging in with Google, Facebook, or Twitter.

**Backend**: Any Oatuh secret keys,

1. **Description:** Shared To-Do list app that connects the preferred calendar app(s) of a group of people, users can schedule individual or group events as well as individual or group tasks. Tasks and event attendance can have incentives, which can range from Venmo payments and “challenges” that can be done if a task is not done on time. Challenges can be made by users, or randomly generated from an API. Another incentive could be a scoreboard which could also show the probability someone does a task/attend an event based on their previous statistics. Users can like/comment on each other’s achievements to further motivate each other.

**Database**: User signup with account used for calendar stored

**APIs & Datasets**: Google calendar, outlook calendar, Apple Calendar

* Truth or dare api <https://generatorfun.com/truth-or-dare-api> (3.99)
* Gamification API <https://aurelienthevoz.docs.apiary.io/#reference/events/events>
* Google Calendar
* BU Building Traffic

**Oauth**: Logging in with preferred calendar service(s) instead of email/password

**Backend**: Without deciding on a technologyhandle Oatuth,

Add: types of events to add. Someone has a lot of hikes, suggests more hikes, etc.