

## CS 411A2 11

### Assignment 1 - Proposal

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#### Idea 1:

In my plan, we could do a "Travel Assistant"-ish service, the whole conversation between user and our web application is powered by the robot api, when user input a name of place, we could use "google geocode api" to get its geo coordinates and then use "google map nearby search" to search for interesting places around user's input, eg: restaurants, museum, etc. Also, plug in "news api" to show news around the user's input or "twitter's tag" could also be good.

#### Google AI api:

A customized chat robot api

<https://console.api.ai/api-client/#/newAgent>

Can be bundled with: google translate api(making multiple language chat robot), whatever get weather api, google search api, google geocode api(getting coordinates of a rough place's name)

#### Database:

<https://www.mongodb.com/>

MongoDB

#### Google Geocoding api:

<https://developers.google.com/maps/documentation/geocoding/start>

#### Google place search api:

<https://developers.google.com/places/web-service/search>

#### News api:

<https://newsapi.org/>

#### Tweets search api:

<https://developer.twitter.com/en/docs/tweets/search/api-reference/get-search-tweets.html>

#### Third-party authentication:

[https://firebase.google.com/docs/auth/?utm\\_source=google&utm\\_medium=cpc&utm\\_campaign=1001467%20%7C%20Firebase\\*%20Brand%20Features%20%7C%20US%20%7C%20en%20%7C%20Desk%20Tab%20Mobile%20%7C%20Text%20%7C%20BKWS%20%5B2017%5D&utm\\_term=%7Bkeyword%7D&gclid=EAlaIqobChMI59yxm\\_bF1gIV1LfACh2TVwetEAAYASAAEgl61PD\\_BwE](https://firebase.google.com/docs/auth/?utm_source=google&utm_medium=cpc&utm_campaign=1001467%20%7C%20Firebase*%20Brand%20Features%20%7C%20US%20%7C%20en%20%7C%20Desk%20Tab%20Mobile%20%7C%20Text%20%7C%20BKWS%20%5B2017%5D&utm_term=%7Bkeyword%7D&gclid=EAlaIqobChMI59yxm_bF1gIV1LfACh2TVwetEAAYASAAEgl61PD_BwE)

The firebase authentication could do google, twitter, facebook, github authentication at the same time.

## Idea 2:

The idea is to create a web application to help college students (or those new to stocks) invest in industries they care about. The application would allow users to find stocks given a sector of interest and the amount of capital they were willing to invest. In addition, it could recommend a 'stock of the day' based on stocks the user was already investing in. Using the target stock price, current price, and broker consensus we could suggest with varying confidence levels which company may be worth investing in.

### APIs:

<http://developers.vetr.com/#introduction> (to get stock information)

<https://www.programmableweb.com/api/intrinio-nasdaq-global-press-releases> (to get press related to the company)

### Database:

<https://firebase.google.com/docs/database/> Firebase

### Third party Authentication:

<https://developers.google.com/identity/> Facebook (through Firebase)