

# Requirement (if met, )

- Navigation (**just like assignment2**)
  - Your app should have at least 2 navigators
  - <https://reactnavigation.org/docs/nesting-navigators>
- Native device features
  - Camera (**take pictures for the journal**)
    - User should be able to take a picture using device camera in your app.
      - Showing a profile pic doesn't satisfy this requirement
  - Location (**used for a route to the interview**)
    - Your app should use user's location
    - Your app should show an **interactive** map with **multiple** markers
      - Using a map to just show user's location in the profile doesn't satisfy this requirement
- Authentication (**users must sign up to use**)
  - The first screen user sees *could be* a signup/login page. If you choose that, have enough information about your app there to encourage new users to sign up.
  - If you choose to show some data to anonymous users, make the reason and value for signing up clear to new users.
  - Use Firebase authentication with email and password to implement proper authentication and authorization to communicate with protected resources in the database.
    - Your login screen should be professional, e.g. warn the user if weak password is used, have a link to help with forgotten password, etc.
  - User can see information about their account on a profile screen.
  - User should not be able to **write** to the database if not logged in.
  - User should not be able to read/write data belonging to other users.
- Database
  - Data should be stored in Firestore Cloud database in at least **three** collections (sub-collections or top-level collections)
    - <https://firebase.google.com/docs/firestore/manage-data/structure-data>

- If one of your collections is storing users' data, the stored information should be more than basic info (email address, name and photo URL)
  - User should have the option to do all CRUD (Create, Read, Update, Delete) operations on at least one of the collections in the database
- Notification (**users will get a notification that encourage them everyday**)
  - User should be able to **schedule** at least one meaningful local notification related to your functionality
- External API (**map from home to interview, and generate AI tarot card**)
  - Create an interface to an external Web API (Google maps static API doesn't count) such as IMDB, YouTube, Yelp, Yahoo, Weather Channel, Yummly, Bestbuy, Amazon, etc. You need to only use the Web API to do read-only operations, e.g. get weather data based on location, get recipes based on the country name,... Some examples:
    - <https://medium.com/geekculture/10-fun-and-free-apis-to-use-for-your-next-coding-project-7d765f643f08>
    - <https://blog.hubspot.com/website/free-open-apis>
    - <https://rapidapi.com/collection/list-of-free-apis>
    - <https://www.bannerbear.com/blog/10-public-apis-that-you-can-use-in-your-next-project/>
    - <https://apilist.fun/>
- Coding:
  - Your code should be split into components that are reusable and small enough
  - Your code should be professional and well commented
- Styling
  - Your app should have responsive and flexible design
  - All Pressable components should give visual feedback to the user on both iOS and Android platforms
  - Store the styling constants in a separate file and reuse them in different components
  - Color and fonts should be consistent
    - Check the contrast between your color choices: <https://webaim.org/resources/contrastchecker/>
  - You are welcome to use a [React Native UI Library](#)
  - [Links to an external site.](#)
    - [React Native Elements](#)

- [NativeBase](#)
  - [React Native UI Kitten](#)
  - [React Native Paper](#)
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Cathy's proposal is in blue

## Proposal

- App name (Max 30 characters, including spaces)

**HuskyJobHunterTracker**

- App description exactly as it would potentially appear on an app store (Max 4000 characters, including spaces, usually much less). This description should:
  - Be appropriate for the app store.
  - Describe the app succinctly and catch someone's attention.
  - Communicate what is interesting/novel about the app.
  - Have no typos or awkward language: this reduces your credibility dramatically.
- **A tracker for (NEU) CS students to keep track of their Leetcode Practices, and keep track of the job opening's name, link, deadline, memo and check if they have done the application.**
- **Later, they can keep track of the interviews and follow-ups.**
- **Users can also write a journal entry everyday to celebrate their achievements.**
- **They can take a picture and post it to the journal. Users will receive a notification everyday to encourage them to explore new job openings and learn new things.**
- **They can give their location so we can show the interview location on the map and give a route to them.**

- After applying for a job, they will get one chance to randomly generate an AI drawing card (like a tarot card) for fun. (inspired by Gacha game and my friend Danni) They can also post this to their journal.
- Maybe we can befriend people and “like” their journal (if they are set to public). But maybe this app is just for users themselves, it’s their choice.
- A slogan or promotional saying that would appear on the app store (Max 80 characters, including spaces)

**A reliable and encouraging job hunt tracker specially designed for CS students. Get a job with us!**

- Who are your target users of the application?
  - Be specific. Don’t say “Kids”, say “Kids ages 4-6”, or “Kids age 3”, or “Adults who play many action games.”
    - You may hope that all kids (or all adults) will use your app, but focusing on a particular target group will guide your design choices.

**CS students who speak English and are applying for jobs/interns, especially NEU Vancouver students.**

- UI sketches (high-level and rough - using **pen and paper/tablet**) for your main screens (don’t include sign up/login screens) to clarify your idea.
  - [How to Sketch a UI for Non-Designers](#)
  - [UI/UX sketching techniques 101](#)
  - In your sketches, show:
    - how your app will use camera and user's location (Your app should show a map with **multiple** markers)
    - how your app does all CRUD operations on the database
    - where user can schedule a notification and for what purpose
- Answer the following questions:
  - What problem/task(s)/need does the application help the users address?
 

**Reliably keeping track of their progress in leetcode problems and applying for jobs online. Offers a journal function so they can write down anything they need for everyday.**
  - What three current apps on the app store would be your closest competitors?

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- You will need to search around and try out apps to figure this out
- Why will your app be better than or different from the competitors?
  1. **Reliable (it is coded by myself, so less privacy concerns)**
  2. **Encouraging (the healthy habit of keeping a journal)**
  3. **Features : Gacha, journal, leetcode problems**
- Go through some of the reviews of these competitors apps on app stores. What common themes do you see when you browse the reviews?

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- What is innovative about your app idea? What will be particularly surprising or elegant about the concept?

**I want to insert a linear programming algorithm to help users better plan their time, using their own preferences and utility functions. For example, a job with 100 applicants will carry more weight than a job with 65535 applicants.**

**Also, I want to give instant feedback and awards to users when they have done applying for a job or solving a leetcode problem. Since I like Gacha games, I want to include this feature and some art/fun in my app.**

- What about your app will keep people engaged using it for a long time, even once the novelty wears off?

**Because they need it in the tough application process. It is very important to have a reliable thing that holds the data, maybe visualize the data. Also it is healthy to keep a journal everyday celebrating our achievements. So I will combine them.**

- What are the top potential weaknesses of your application idea and how will you address them?

**Maybe due to our abilities and the limited time, we cannot implement all features perfectly. We will start with the most important ones.**

- What is a third-party API you will use in the app? If you haven't finalized it what are some choices that you are considering?

A map that shows the place of the job, so they can see how long it takes to commute.

Some data visualization tools that display user's performance and achievements.