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CS 402 iOS Development

Homework 2:

### ConCocktail

1. Everyone has a default evening drink, even though there are endless cocktail combinations. Even considering a specific liquor, the sky is still the limit. However, most people don't have the time or energy to research a new favorite cocktail. This app would help diversify users' portfolio of drinks, without the struggle. The drink details would be provided from The Cocktail DB API, <https://rapidapi.com/user/thecocktaildb>. Each cocktail would be categorized and searchable based on its attributes.
- 2.

### Drink of the Week

1. 3 – 4 hours
2. Populate "Drink of the Week" section with API request. Network/internet and remote server access necessary.

**Looks like an interesting API and will help a lot with these features.**

### Drink Categories

1. 6 – 8 hours
2. Index cocktail categories with their ingredients supplied from API request. Network/internet and remote server access necessary.

### ConCocktion

1. 6 – 8 hours
2. Allows user to enter ingredients they have, ConCocktion provides possible drinks with provided attributes. Sections of the result populate based on having all the ingredients, needing a couple more ingredients, or a whole new direction. Requires network/internet and remote server access.

Stretch goal: Provide user access to nearest liquor station or grocery store based on needed ingredients. This feature addition would require GPS and access to mapping services.

### Save Cocktails to Favorites

1. 2 – 3 hours
2. Provide the option to save a recipe to favorites. Network/internet and remote server access necessary.

### Send Cocktail to Friend

1. 2 – 3 hours
2. Allow user to send cocktails to friends via text message. Network/internet, remote server access, and messaging system utilization.

## Build Your Own

1. 5 – 7 hours
2. Provide the user the opportunity to contribute their bartending creations. Drink searches could index across these shared ConCocktions, and professional bartenders can be verified to justify their recipes. Ultimately this would involve a database to store users' contributions, and network/internet for the connection.
- 3.

Startup Screen if not already seen.



Base searching screen, red button takes to the ConCocktail tool.



Changes glass image dynamically, liquids could be inserted through animation. Essentially allows user to build a custom cocktail and submit it to the database.



4. Unfortunately, the concept that I thought was original for building a cocktail based on ingredients, exists in the popular "Cocktail Flow". It is very well built and covers much of what I imagined. Although, it consists of a Premium system that blocks a lot of the drinks from being visible without subscription. Joining requires a fee of 3.99 a month or 19.99 for the year. I believe that ConCocktail could be more appealing to the same users simply because of this cost. In addition, there is no feature to send a cocktail directly to a friend.

Another existing app with the same idea is called "Mixel". It provides an interface of an open refrigerator, where you can fill it with the supplies in your house. This once again covers the same idea as my ConCocktions feature. Also, users can contribute their own drink creations, but they are not available to other users. This feature could be a significant factor in establishing the

**The first app I did for iOS was Bar Ninja, which was a mix drinks recipe app. It had a Core Data database of hundreds of drink recipes and their ingredients. Everything was searchable. This idea is an interesting take on the idea.**

versatility of ConCocktail. Additionally, Mixel has an additional purchase to “unlock” all of their features.

Continuing, there is “8,500+ Drink Recipes” which includes similar options to those listed above. It has a search for a drink feature, where the currently owned items are considered. Although, the search feature only accesses ingredients if the query matches the first word. This looks to be an issue for ingredient names with multiple words. Clearly, this is a significant component to consider when implementing my search methodology.

There are many others, including “Cocktail – 100 Best Cocktails”, “Tattersall”, “Drinks Recipes – Fruit Juice”, “Mixology”, and “Perfect Drink”. The trend I see with a lot of these is that they are used for bartenders to memorize their cocktails. Some include a flashcard section for studying these combinations. Most of them are downloaded for free and rest on the premium subscription model.

5. The intended audience is broadly for adults that like to make cocktails. After reviewing others on the app store, I see a much more specific application for bartenders and building their comprehension of bar drinks.
6. It is hard to see the other implementations all follow the same pricing paradigm. I think as an alternative, it would be interesting to see if a free download, but with advertisements would prosper more than the competitors I listed.

#### Trump Tweet Tracker

1. The purpose of this application would be to catalog all of President Trump’s tweets starting May of 2009 and into the future. Utilizing the archive, <https://pikaso.me/blog/trump-twitter-archive> to get started, I would essentially provide the user with an interface to scroll through these tweet screenshots. In order to get tweets beyond this archive, I would look to Twitter’s API <https://developer.twitter.com/en/docs/twitter-api/v1/tweets/filter-realtime/overview/statuses-filter>. This source could be implemented the same way the original archive was gathered with the Pikaso API to keep up in real time with Trump’s tweets. The tweets would have an original chronological order state, which could be adjusted by sorting or filtering options.
- 2.

#### Display Chronological Tweets

1. 2 – 4 hours
2. Access database of archived Trump tweets.

#### Incorporate Dynamic Tweet Screenshot Pulls

1. 6 – 8 hours
2. Network/internet to utilize Pikaso API to gather live tweets with filtered Twitter API and insert to database.

#### Index Tweet Contents

1. 6 – 8 hours
2. Tool to extract text from screenshots. Use attributes to index the contents of this data and allow searches.

#### Filter Tweet Display

1. 2 – 4 hours
2. Use indexed attributes to provide filter options, include multiple word searches with logical AND/OR options.
- 3.

Simple search and filter interface that allows you to build search combinations.



4. There are some similar ideas presented already on the App store. There is “Trump Tweets” which follows the same concept, displaying and notifying users whenever Trump interacts on Twitter. The benefit of their approach is that they provide live links to content such as videos or external articles. However, with my implementation I would only have access to the still moments of these tweets. The benefit to my app would be the additional features that allow for searches. It seems like an especially powerful tool to inquire about when Trump made statements. Whether this falls during his presidency, whether the tweet gets deleted, there are important details to his liveliness on Twitter.

**Interesting indeed. There's a few technological risks I see here. First is the OCR and how good that'll be to convert the tweets. Can you cross reference those with the API to resolve those? I think if you get the Twitter API working, have a meme generator built in, and basic search and categorization in, this would make a decent app for a final project.**

There is also “Trumpit”, an app that allows you to keep up with Trump in the same sense I am describing. It includes push notifications, viewing the historical feed, and the option to send a meme with a tweet screenshot. This is an interesting approach, as some of the reviews appreciate the way users can send these memes. It could be something to consider, but once again this falls short of my app since I am going to provide the searching mechanisms.

Another app already in existence, “Trumpeter” which provides the user with the option to read Trump’s tweets in different voices or accents. This is similar in the sense that it has his tweets cataloged, but it doesn’t provide the filtering features I intend.

There are several other apps, including “Trumpscriptions”, “Trump or Not!”, and “Twump” which interact with Trump tweets in some way. For “Trumpscriptions”, there is a swapping feature which provides the ability to adjust the content of Trump’s tweets for humorous impact. The other two provide either a real Trump tweet, or a fake tweet to evaluate the user’s ability to interpret our President’s tweet tendencies.

5. The audience could be very broad in reality. There are endless people on both sides of the aisle in their opinions of Donald Trump. Those that appreciate him could use this as a resource to follow his activity and have reference to things he has said. Those that don’t appreciate him could do the same, but with opposite motivation. Ultimately, there could be more application for those that are politically interested or involved. The age range would tend towards those with political consciousness, potentially high school and beyond.
6. I believe that because Trump’s tweets are available to search on twitter, it is tough to justify a cost.

#### Disc Golf: Ann Morrison

1. In respect of the amazing local Boise disc golf course, Ann Morrison, this app will look to provide all the tools necessary to track and improve gameplay. With the occasional mulligan, it is difficult to track a personal score, even worse to believe someone else’s memory. An accurate scoring system and tracking of previous statistics on the course is crucial. In addition, an accurate distance to basket measurement is vital to disc selection and both concepts will be captured in the Disc Golf: Ann Morrison app.
- 2.

Scorekeeping: Provide user with custom options for par values and build according scorecard based on number of group players.

1. 3 – 4 hours
2. No additional technology, just the interface to gather user information.

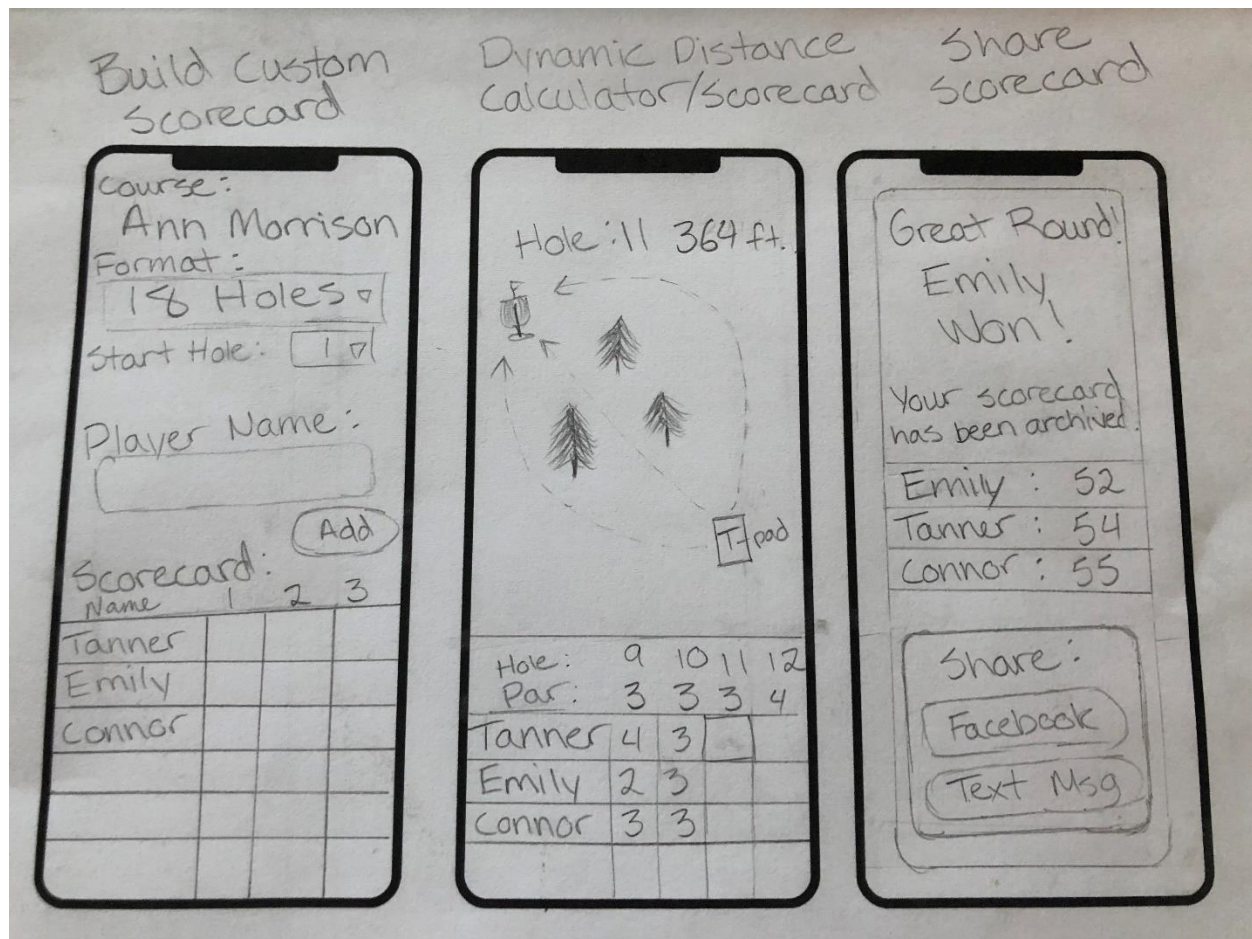
Dynamically Calculate Distance to Basket: Determine user position based on device and calculate the distance to the current basket. This detail if accurate is especially helpful to decide what disc and how to throw the next shot.

1. 7 – 10 hours
2. This feature will require GPS to access the current position of the user in relation to the basket.

**I like this idea too. You show a map, but didn’t talk about it. That would be a great addition to the GPS and distance finder, and other features you mentioned. Make sure you test it thoroughly by playing a lot of disc golf with it.**

Share Score: Allow user to send a text message to a friend of their scorecard.

1. 2 – 4 hours
2. In order to send the message, network/internet access will be necessary.
- 3.



4. The only real competitor to my app is "UDisc", which is the go-to for these sorts of disc golf features. They provide an account-based system that allows social interaction. There is a score keeping system, course location, and a *subjective* distance to basket calculator. Personally, I have used this app many times. The issue is that they have antiquated locations for the Ann Morrison baskets. With my twice a week visit, I see the rotation of these basket sites, where most of the holes have three potential placements. Either UDisc only has one basket location recorded or at this point their old point of measurement isn't even one of the basket options. The result is potentially misleading directions for blind basket holes. My ultimate solution would be to personally record the accurate basket site possibilities. Then I can reach out to the local Ann Morrison disc golf reference to keep track of the current placement.

In addition, UDisc only provides its significant features for a free trial aside from user to user interaction. The premium account is required immediately if you want to include other disc golfer's profiles on the scorecard.

5. The intended audience includes the spectrum of disc golfers near Boise. Ann Morrison is one of the most prestigious courses in the state, and the course is constantly packed. This app could be beneficial to everyone not wanting to deal with UDisc.
6. I think it would be reasonable to allow downloads for free but use advertisements. These advertisements could be initiated immediately after a hole's scores are obtained. Thus, occurring during the walk to the next tee pad, and not bothering the user excessively.