

# CS402 - Assignment 3 Deliverable 1

Carson Smith - Due 9/17 (Extended to 9/18)

## Idea 1: Japanese/Chinese Character Stroke Order Practicing Application

### Description:

The app would be for practicing the stroke order of Asian characters on the touchpad with guided assistance that focuses on learning radicals instead of the characters as a whole.

### Features and ETAs:

1. Tells you what character to write and a touchpad that checks your strokes in order.  
ETA: Unknown, no idea what would be behind this, other than probably a database that keeps track of the strokes that need to be done on the touchpad. My best guess is like a month, given how little I know about it.
2. Potentially a way to set your own stroke order  
ETA: Unknown as this would probably require you to be able to make independent entries in a database somehow. My eta would be less than the time needed for the database, but still a good bit so I'll say 2 weeks.
3. A good interface  
ETA: 2 weeks
4. Tutorial  
ETA: 1-2 weeks
5. A way to get the subsets of characters into the phone app that probably entails setting up a database somehow.  
ETA: 1 week at most, probably?

### Competitors:

Chinese Stroke Order Writing -

<https://apps.apple.com/us/app/chinese-stroke-order-writing/id937140477>

Character Stroke Easy -

<https://apps.apple.com/us/app/character-stroke-easy/id1371907539>

KanjiQ - Japanese Kanji AD

<https://apps.apple.com/us/app/kanjiq-japanese-kanji-ad/id557842213>

Kana Writing

<https://apps.apple.com/us/app/kana-writing/id451464932>

## Proposed Revenue Model and Reasoning:

I would make this app free. Several of the competing applications are free, and I am not interested in making money with the apps I create.

## Idea 2: Nearby Restaurant Randomizer

### Description:

A restaurant randomizer that gives you a random nearby restaurant that can be filtered by food type, distance, rating, and potentially even drinks or alcohol.

### Features and ETAs:

1. Google Maps integration  
ETA: Not sure. I assume this would be easy, however, given the mentions it's had in class. I'd give it 3 weeks at most, and probably far less time than that.
2. Tons of specific filtering for the nearby restaurants. (food type, distance, cost, rating, etc.)  
ETA: Probably really fast after Google Maps is integrated. 2-3 weeks at most to set everything up.
3. Polished User Interface  
ETA: Probably 1-2 weeks at most.
4. Title Page  
ETA: Three Days
5. Potentially even a database to remember past settings and preferences, and then weighs the randomizer differently to choose similar things you might like?  
ETA: Completely unknown. Maybe a handful of days, maybe a month? I think this might require machine learning, so I'm really unsure.
6. A cool, different way of randomizing the options available to customers. Something animated. The animation is the thing I want here. The competing apps have roulette wheels, but I think something different might be cooler.  
ETA: One to two weeks.

### Competitors:

Eat Now -

<https://apps.apple.com/us/app/eat-now-restaurant-picker/id1463321047>

Restaurant Roulette -

<https://apps.apple.com/us/app/restaurant-roulette/id1431314346>

Food Genie -

<https://apps.apple.com/us/app/food-genie-where-to-eat/id1137834633>

## Proposed Revenue Model and Reasoning:

I would make this app free as well. All of the competing apps I can find are free, and furthermore, I'm not interested in making money with the apps I create.

## Idea 3: Outdoor Rock-Climbing Location Finder

### Description:

An app that covers a large area around where you are and gives you information about the outdoor rock-climbing spots that have been set, with the additional functionality to add your own locations to the app that are then peer-rated for accuracy.

### Features and ETAS:

1. Google Maps integration (but just the map, not the directions or locations from it)  
ETA: 3 weeks at most.
2. User Account Database for logging in  
ETA: 2 weeks. Not too hard. I have no idea how we would incorporate a database, but it doesn't seem impossible.
3. Polished Interface  
ETA: 2-3 weeks, depending on how quickly I learn how to make alternative views and other aspects.
4. A different database to store climbing locations and their relevant Google Maps data, along with the rating info.  
ETA: 3 weeks at most? Possibly as easy as the other database though

### Competitors:

Mountain Project -

<https://apps.apple.com/us/app/mountain-project/id452308783>

ClimbingAway -

<https://apps.apple.com/us/app/climbingaway/id408499277>

## Proposed Revenue Model and Reasoning:

Same as the other two, not only are the competing apps I can find free or free with in-app purchases, I'm not looking to make money on the apps I create.

## Thoughts:

After relentlessly bothering everyone I know for app ideas, I was able to come up with three decent ones. I think the character writing app is the most interesting of the ideas, but I also think

it will be really hard since I don't know the depth of the app. The food randomizer idea is probably the most practical to build within the timeframe I have to build it, with the climbing location app being a bit of an uninspired idea I had to fill the third slot.