Kart App

Assignment 2

Process Book

05-391

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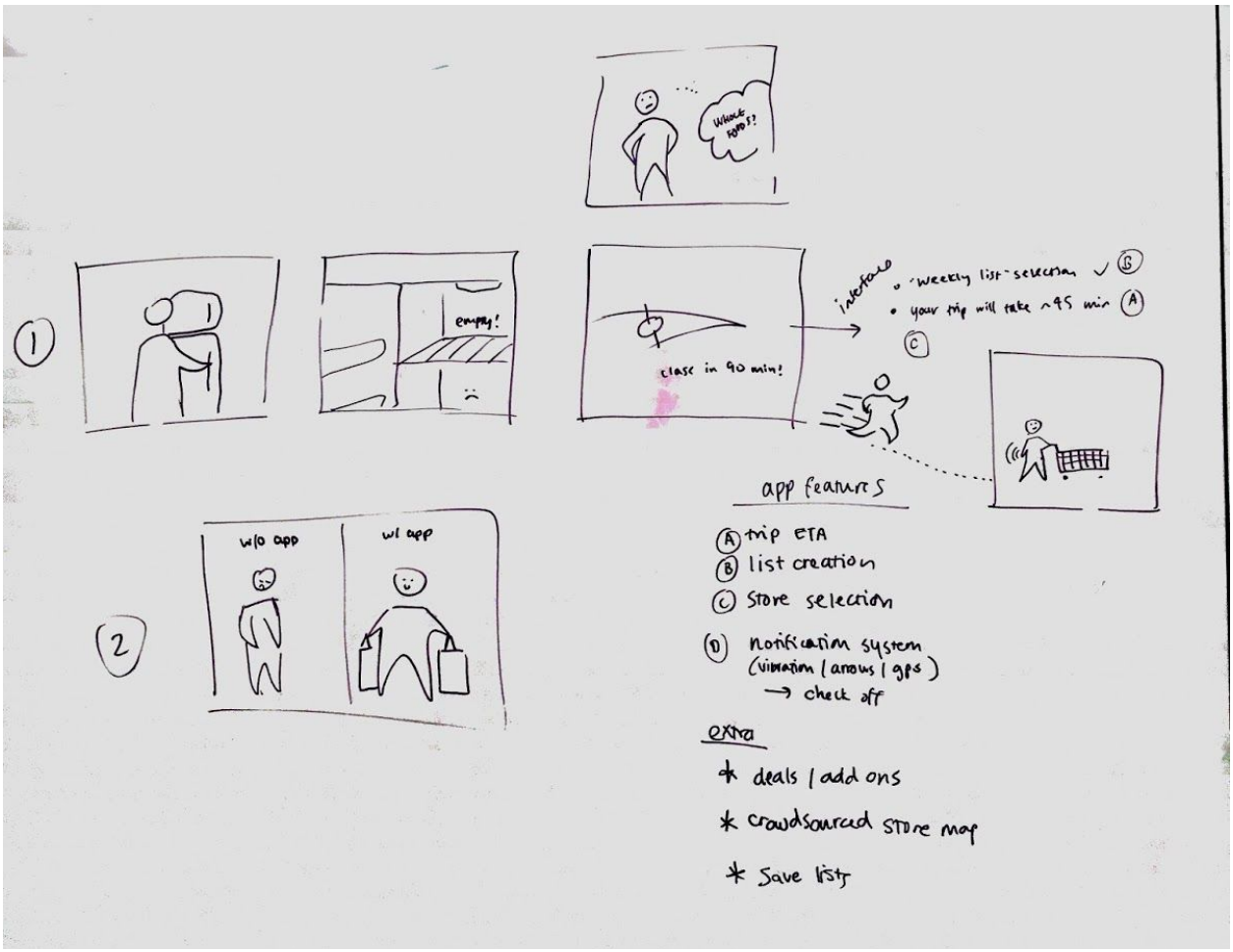
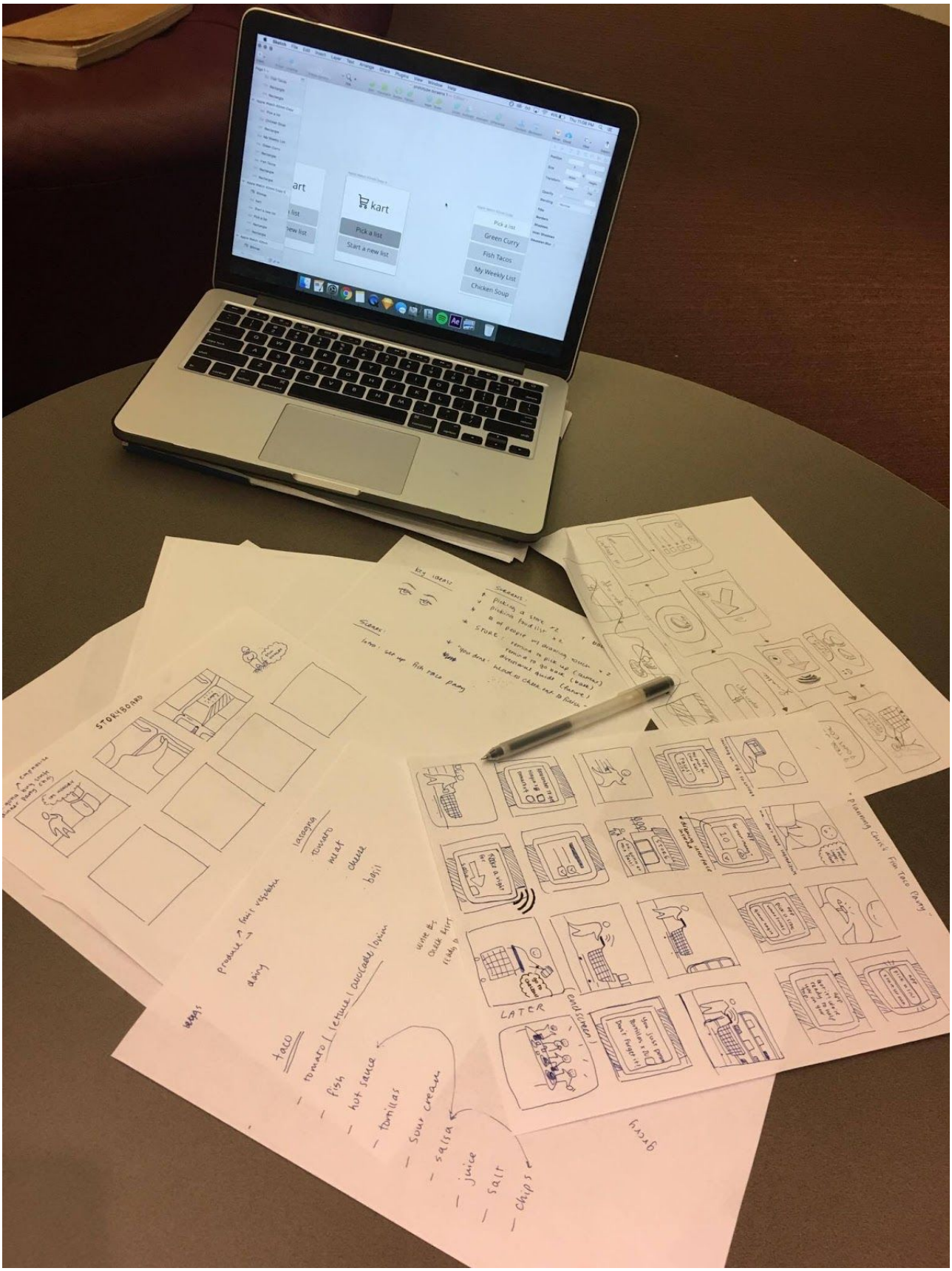
Application Context

It is difficult to find free time at Carnegie Mellon. Therefore, our group aimed to create a solution to expedite a process that is difficult to fit into busy schedules. We saw an opportunity in helping students find time to grocery shop. It is time consuming to write a new grocery list every time and to commute to the store. Additionally, once there, it is challenging to efficiently navigate the dozens of aisles and stay on track. As a result, students have to buy more expensive on-campus or restaurant meals instead. Our solution is Kart, a smartwatch app that helps college students find time for grocery shopping. It shows nearby grocery stores, has pre-loaded lists that can take a number of servings as input to adjust ingredient amounts, and has the capability of saving lists. In addition, there is a navigation system powered by Bluetooth beacons throughout the aisles and blueprints supplied by individual stores. In the store, if a user passes an item on the list, the app will notify them via a popup alert and various vibration tones depending on the distance from the item.

Video Ideation

For our video, we considered two approaches. One was focusing on a CMU student realizing that they have no food in their dorm right before starting a busy day of classes. The student can select a previously saved list, like a weekly list of basic staple items. The Kart app also shows users the estimated time until completion to help them budget time. The other approach was to show a split-screen where one person has the app and the other does not. This would highlight the benefits of having the Kart app and being able to fit grocery shopping into a tight schedule at the drop of a hat. In the end, we decided against the split-screen because it seemed to resemble a kickstarter video more than a video prototype, like the examples from lecture.




kart
Pick a list
Start a new list
Green Curry
Fish Tacos
My Weekly List
Chicken Soup
STORYBOARD
LATER
taco
tomato
fish
hot sauce
tortillas
sour cream
salsa
juice
salt
chips
gravy

Storyboard

The scenario is that a CMU student is hosting a taco party, which includes ingredients that college students do not normally have on hand. The student needs to go grocery shopping last minute to get enough ingredients for ten guests. We wanted to highlight unique features of the Kart app, like creating lists for a certain number of guests, hands-free checklist (unlike holding paper and pen or a smartphone), and the notification and vibration system in the store to facilitate navigation.

Screens

Since the smartwatch screen is so small, we decided to not put a physical back button within the app. Instead, if users wants to go to a previous screen, they can swipe left to right. For the same reason, we also decided to use optical character recognition to read the number of people for the grocery list. The input is drawing a number with a fingertip.