Commuter Assist

Stefan Kapetanovic - Team Manager

Rusty Griggs - Lead Designer

Warren Schweiger - Head of Communications and PR

Alec Adair - Lead Tester and Head of QA

Problem

Commuting and parking can be a tough issue for many people

- Space limitations
- Cost
- Convenience

Info to facilitate commute is available but difficult to aggregate

- Payment options
- Available lots
- Construction Information
- Other info for commuting without a vehicle

Contextual Inquiry #1

Business student commuting to campus

- Did not know most efficient driving route
- Unaware of open lots
- Paid to park in parking structure

Contextual Inquiry #2

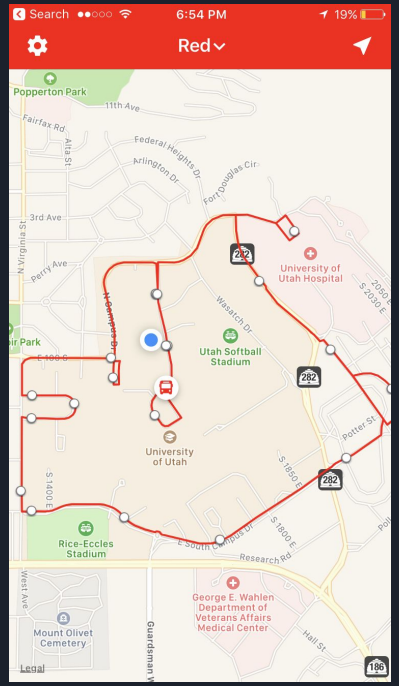
Engineering student commuting to campus

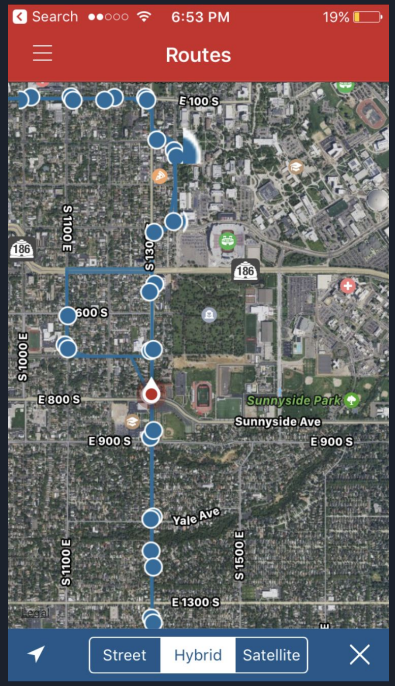
- Planned extra time for parking
- Unaware of most efficient route after freeway exit
- Paid for Parking

Contextual Inquiry #3

UTA Commuter - From 1300 South 1300 East to WEB

- Commuting info separated
- Missed train by a hair
- Alternative route options

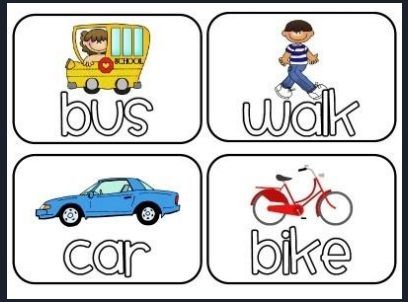




Commuter Services Interview

Melissa Johnson, Director of Commuter Services

- Addressed alternative methods of transportation
  - Bus, TRAX, U of U shuttle
- Commuting is not just a University of Utah problem
- Monetary restrictions
- BLINKSYS student data tracking
- Information about commuting is available
- Future of Campus Commuting
  - Autonomous vehicles, ride - sharing



Tasks

Find the best route for a given user

Determine departure and arrival times

Reserve parking stall

Become informed and adapt to current commuting conditions

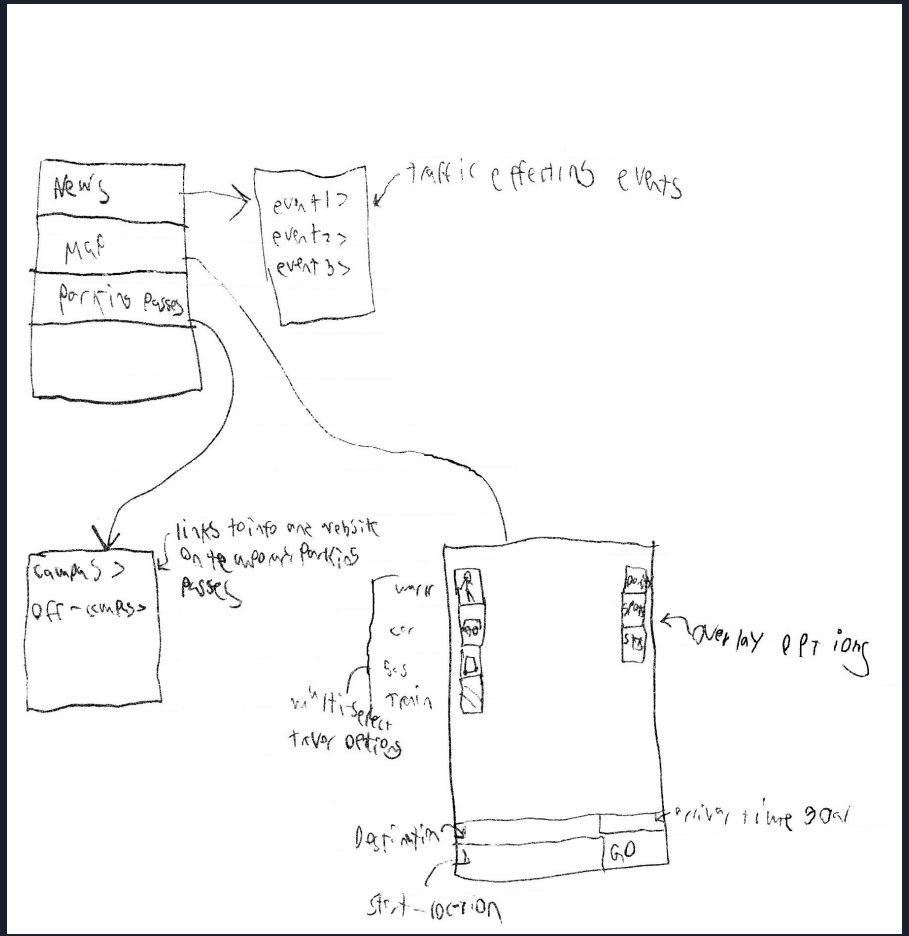
Avoid cellular distractions while remaining informed of commute

Purchase parking as needed

Design 1 Sketch

Information modes

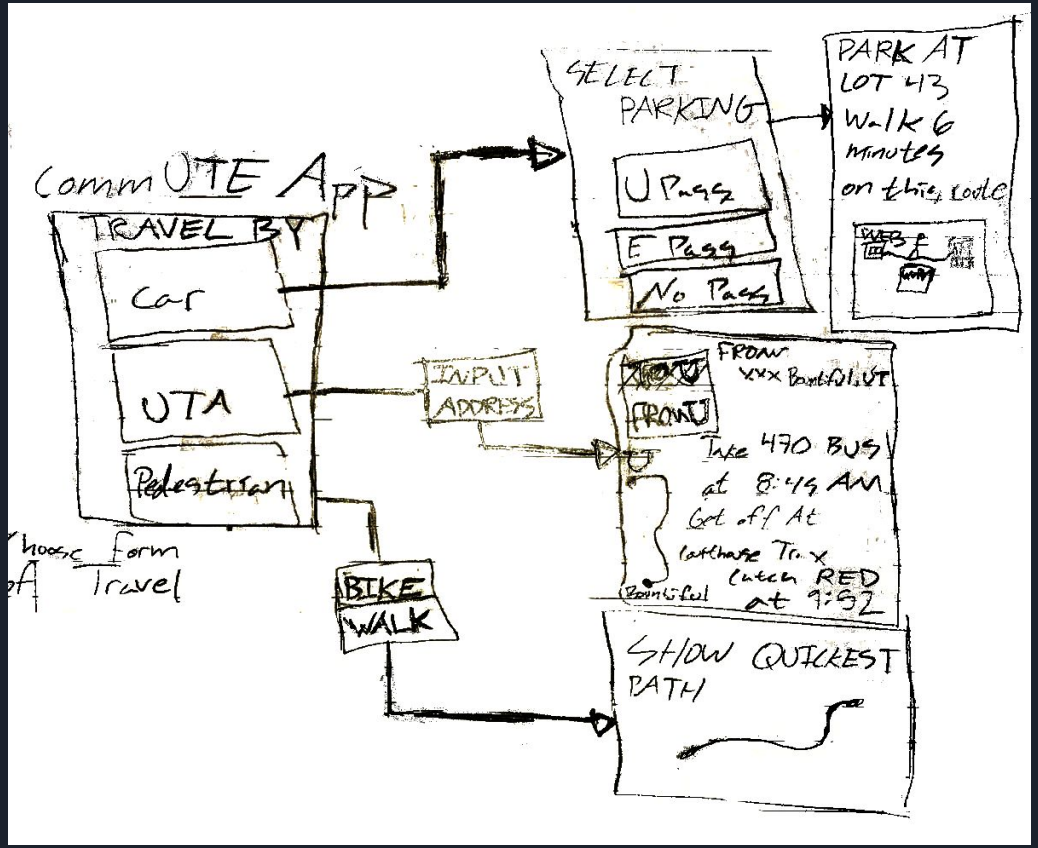
- News
- Map
- Permits



Design 2 Sketch

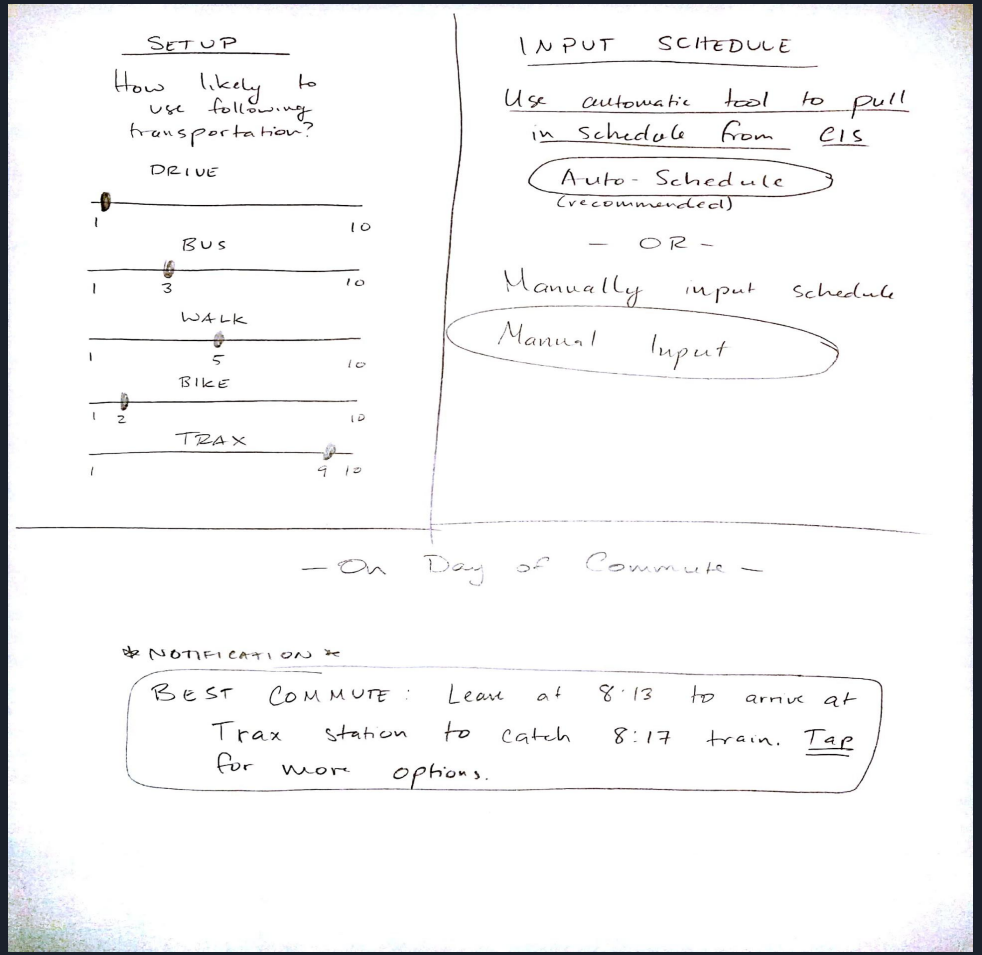
Sketch Goals

- Show different UIs for different types of commuters
- Quickly inform user of efficient method of travel

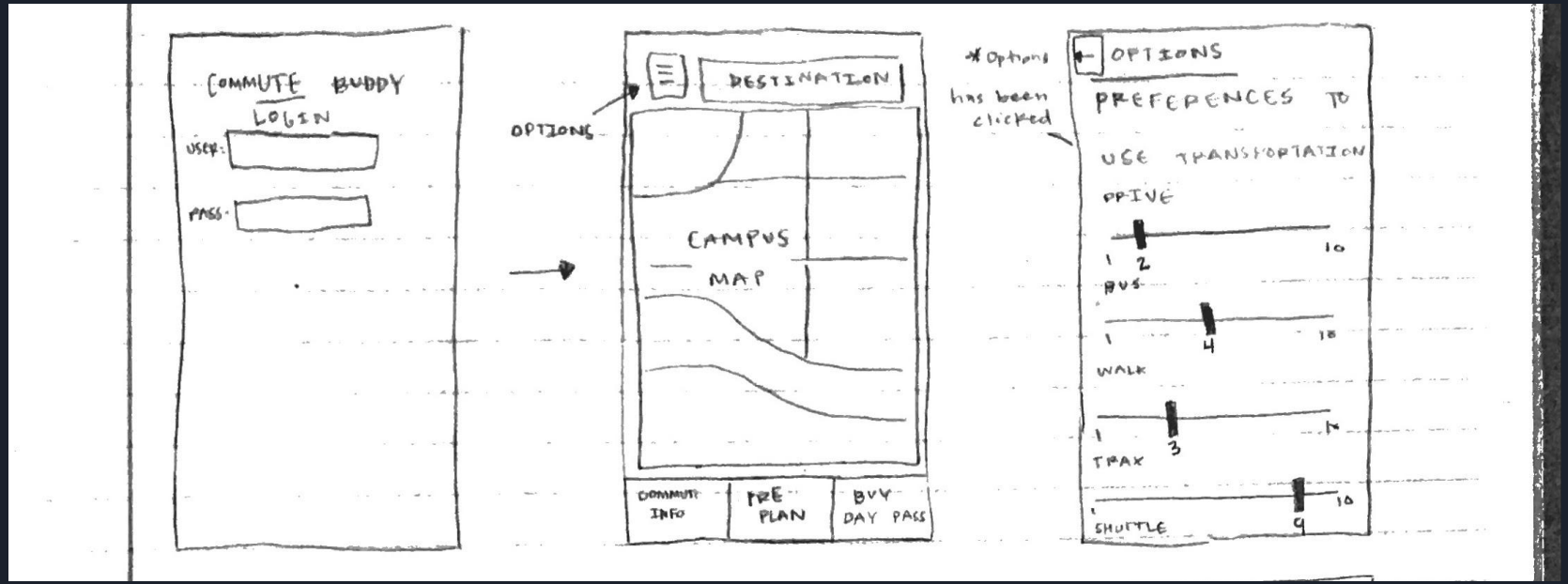


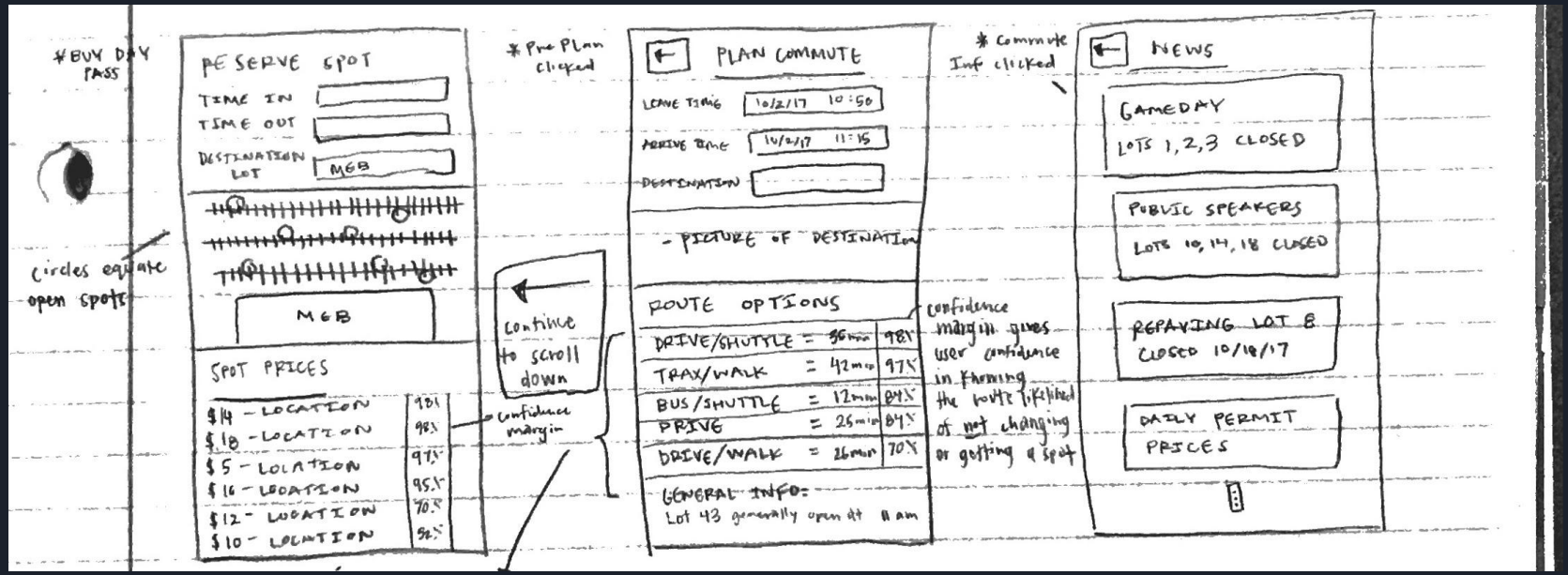
Design 3 Sketch

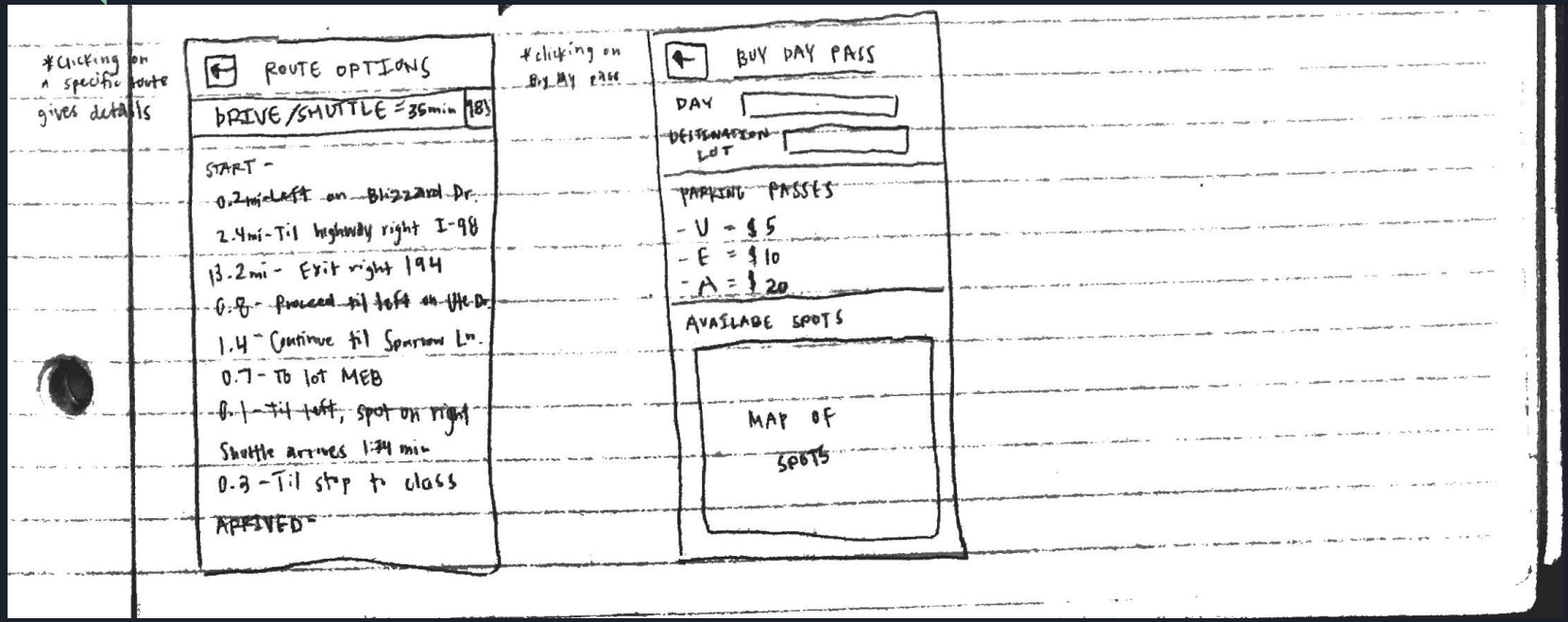
- Initial transportation preferences
- Mobile notifications



Final Design Sketch



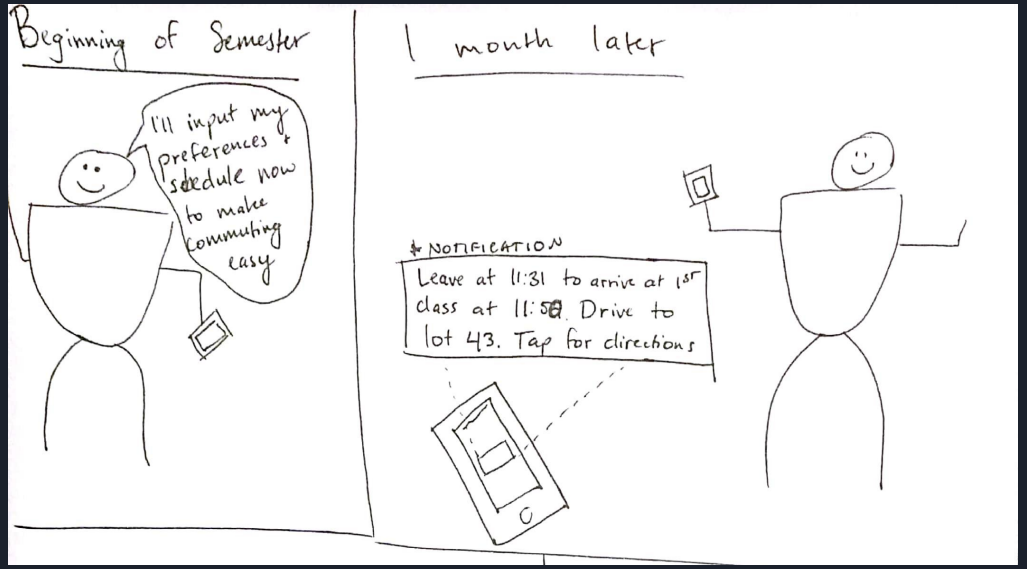

* BUY DAY PASS
circles equate open spots
RESERVE SPOT
TIME IN
TIME OUT
DESTINATION LOT
M6B
M6B
SPOT PRICES
$14 - LOCATION 98%
$18 - LOCATION 98%
$5 - LOCATION 97%
$16 - LOCATION 95%
$12 - LOCATION 70%
$10 - LOCATION 5%
* Pre Plan clicked
continue to scroll down
confidence margin
PLAN COMMUTE
LEAVE TIME 10/2/17 10:50
ARRIVE TIME 10/2/17 11:15
DESTINATION
- PICTURE OF DESTINATION
ROUTE OPTIONS
DRIVE/SHUTTLE = 36min 98%
TRAX/WALK = 42min 97%
BUS/SHUTTLE = 12min 84%
DRIVE = 25min 84%
DRIVE/WALK = 26min 70%
GENERAL INFO:
Lot 43 generally open at 11 am
confidence margin gives user confidence in forming the route likelihood of not changing or getting a spot
* Commute Inf clicked
NEWS
GAMEDAY
LOTS 1, 2, 3 CLOSED
PUBLIC SPEAKERS
LOTS 10, 14, 18 CLOSED
REPAVING LOT 8
CLOSED 10/18/17
DAILY PERMIT PRICES


*Clicking on a specific route gives details
ROUTE OPTIONS
DRIVE/SHUTTLE = 35min
START -
0.2mi-Left on Blizzard Dr.
2.4mi-Til highway right I-98
13.2mi - Exit right 194
0.8 - Proceed til left on the D
1.4 - Continue til Sparrow Ln.
0.7 - To lot MEB
0.1 - Til left, spot on right
Shuttle arrives 1:34 min
0.3 - Til stop to class
ARRIVED -
*clicking on Buy day pass
BUY DAY PASS
DAY
DESTINATION LOT
PARKING PASSES
- U = $5
- E = $10
- A = $20
AVAILABE SPOTS
MAP OF SPOTS

Storyboards

Parking stall reservations

Optional payments for parking reservations

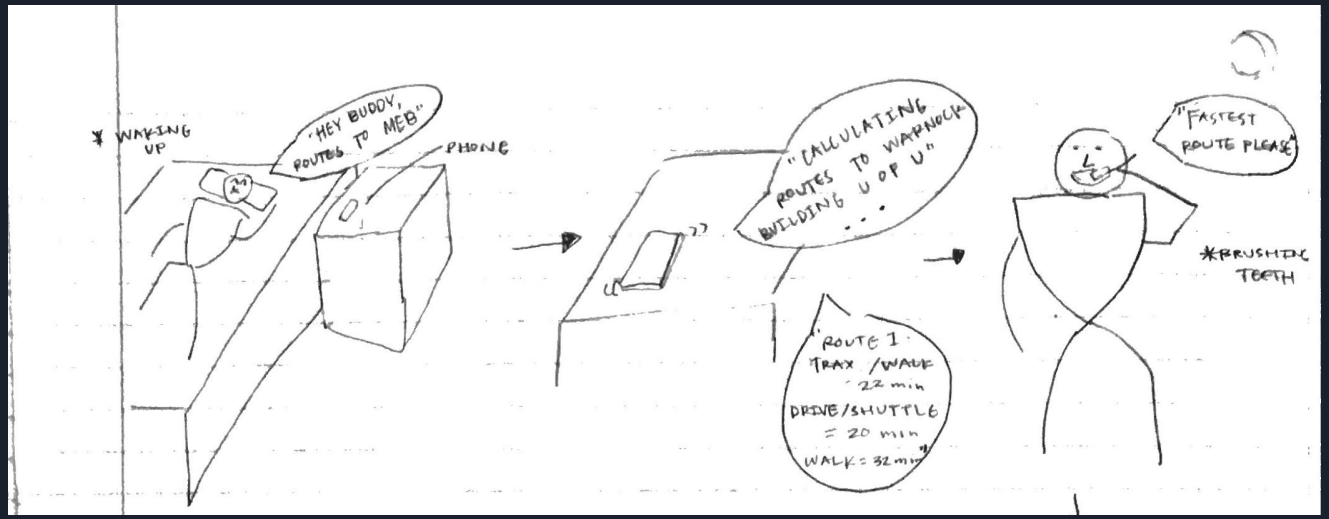


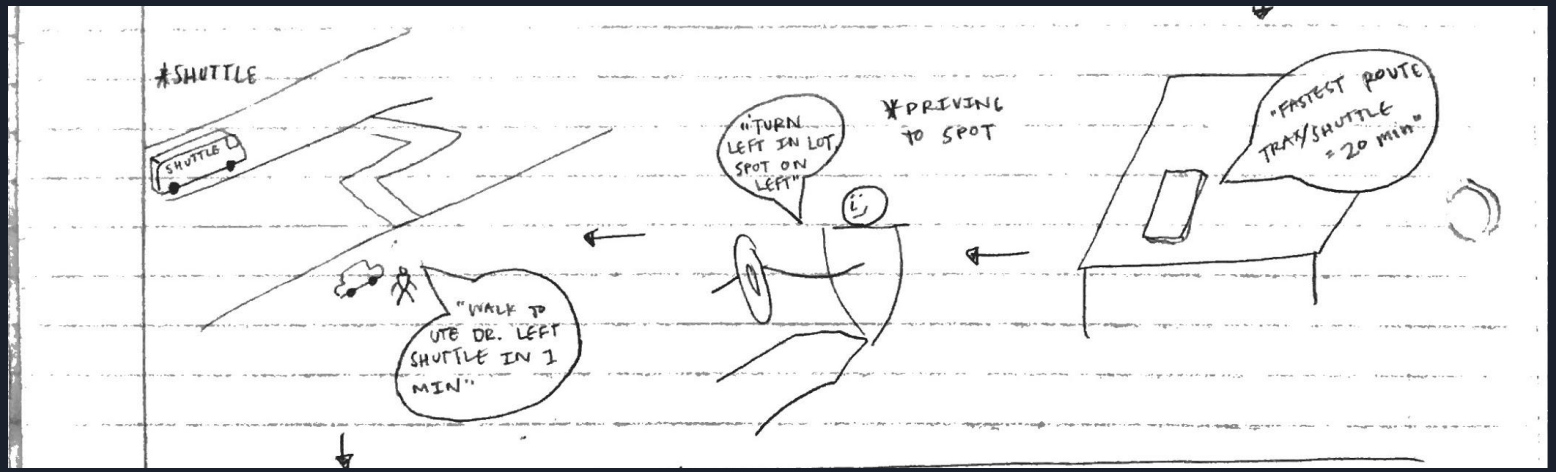
5 MINUTES FROM LOT 43
Reserving spot 439. Follow directions
Walk or take RED Shuttle to SFEBB.
439

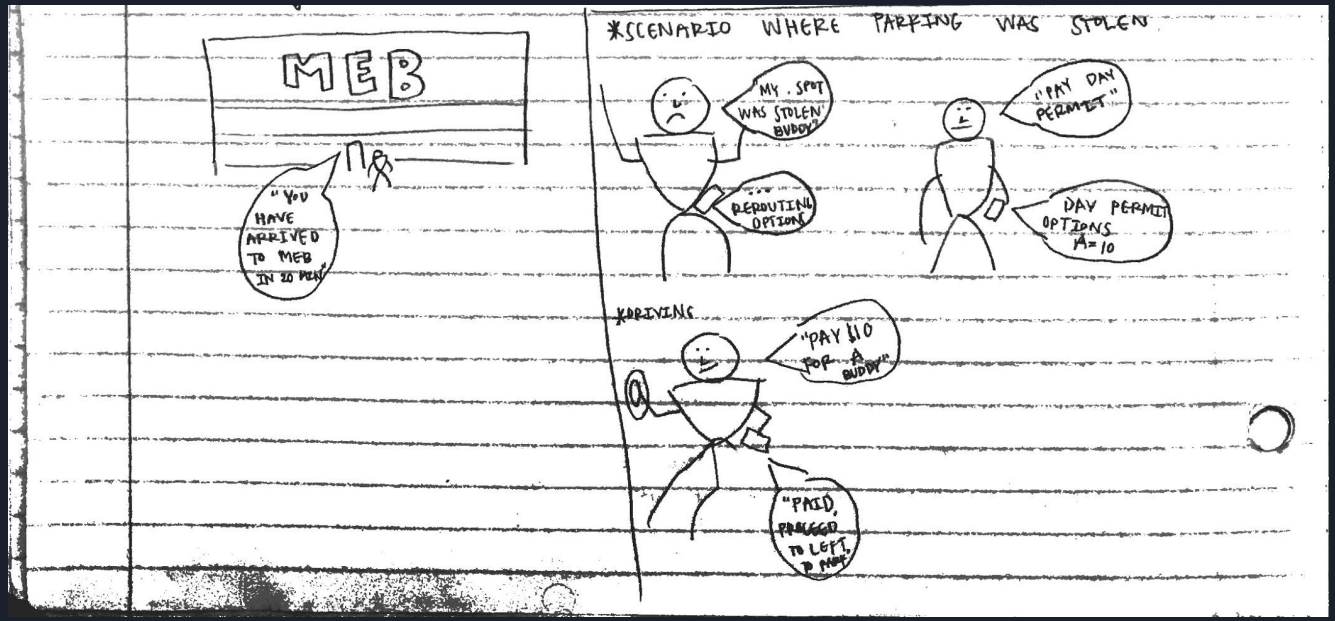
Storyboards

Voice User Interface

Virtual commuting assistant




*SHUTTLE
SHUTTLE
"WALK TO UTE DR. LEFT SHUTTLE IN 1 MIN"
"TURN LEFT IN LOT SPOT ON LEFT"
*DRIVING TO SPOT
"FASTEST ROUTE TRAX/SHUTTLE = 20 min"


MEB
"YOU HAVE ARRIVED TO MEB IN 20 MIN"
*SCENARIO WHERE PARKING WAS STOLEN
MY SPOT WAS STOLEN BUDDY"
REROUTING OPTIONS
"PAY DAY PERMIT"
DAY PERMIT OPTIONS
1A=10
DRIVING
"PAY $10 FOR A BUDDY"
"PAID, PARKED TO LEFT, 2 MORE"

Summary

Commuting to campus can be made easier

Parking can be streamlined

It’s hard to take what is observed and convert that into a working or tangible product

Getting to campus how and when you want should be easy

Questions?

Thank You