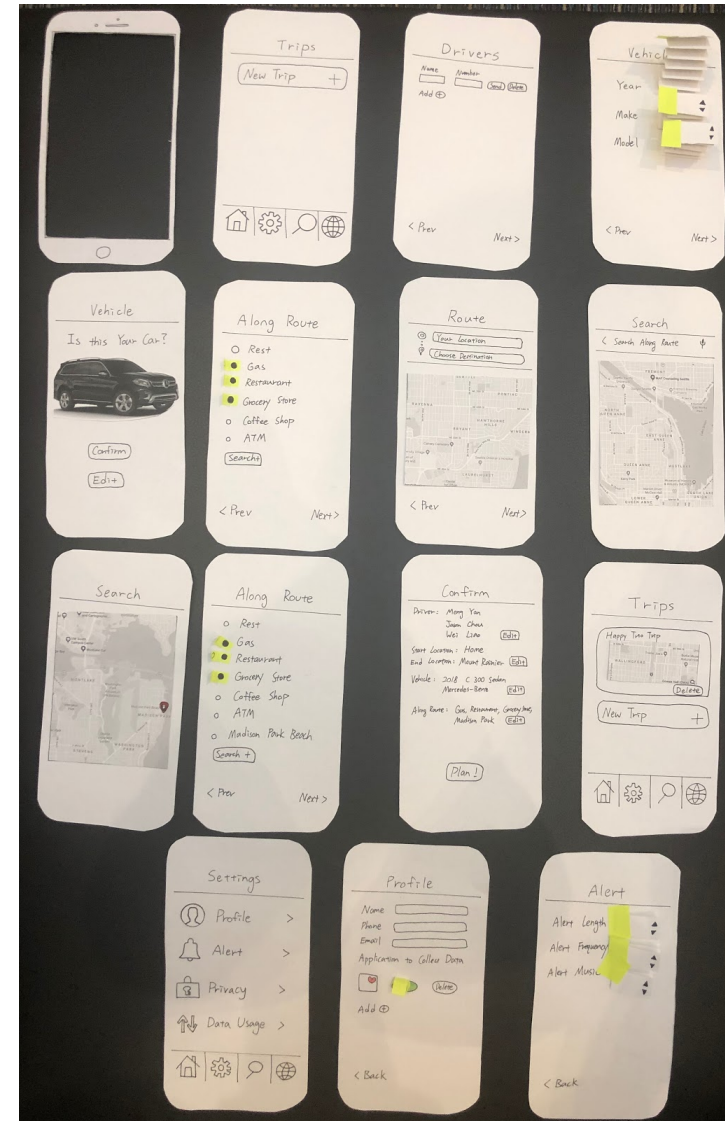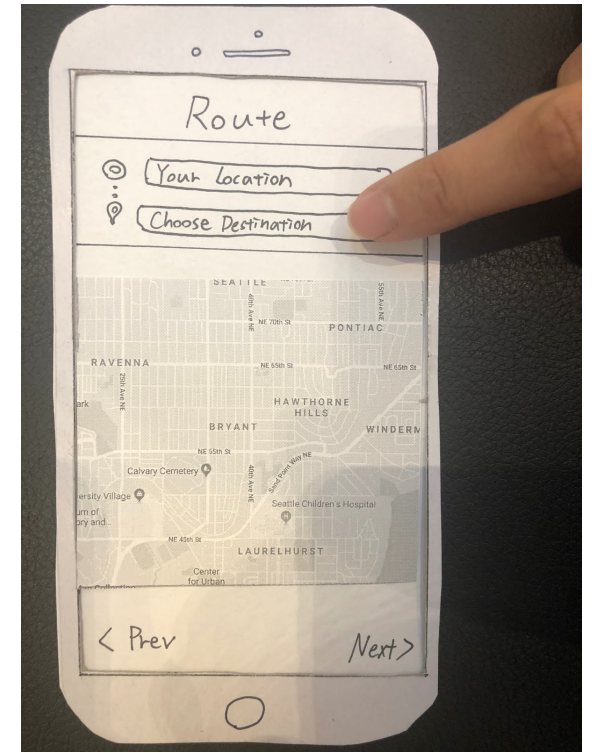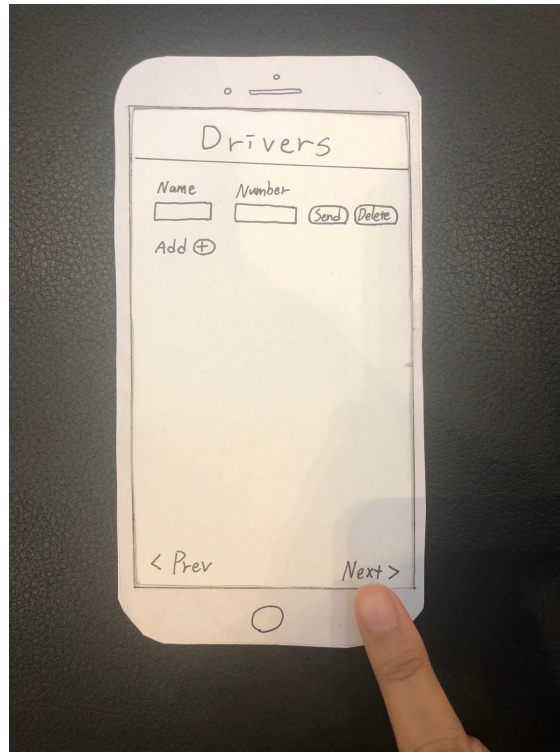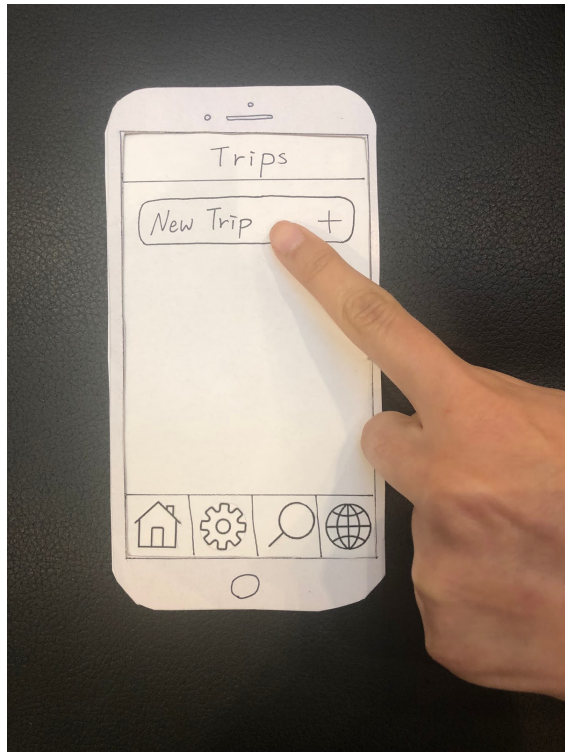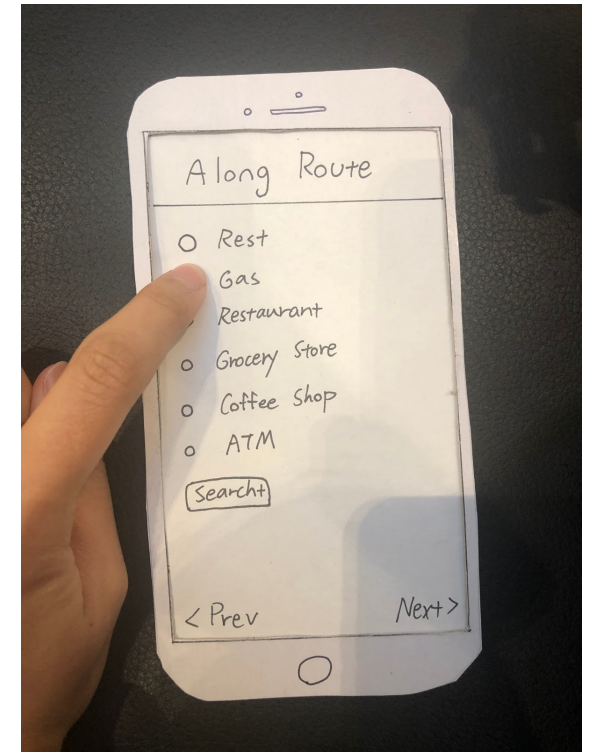# Switch

Meng Yan, Jason Chou, Wei Liao

Overall Problem

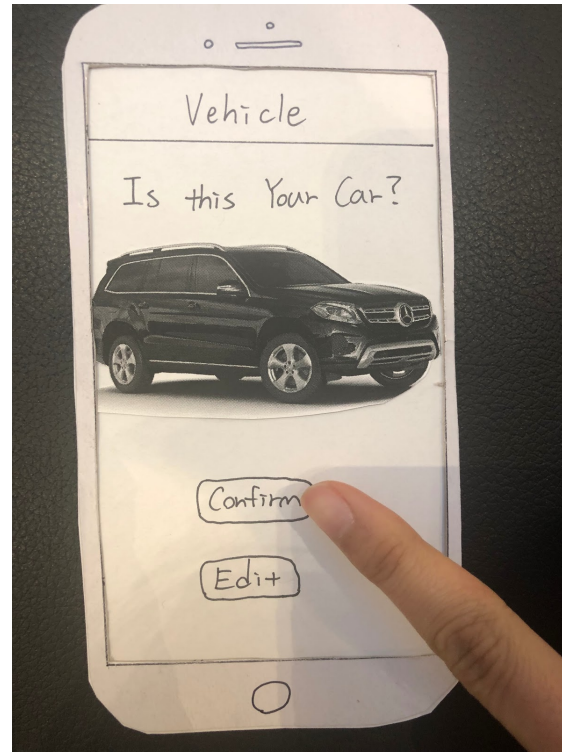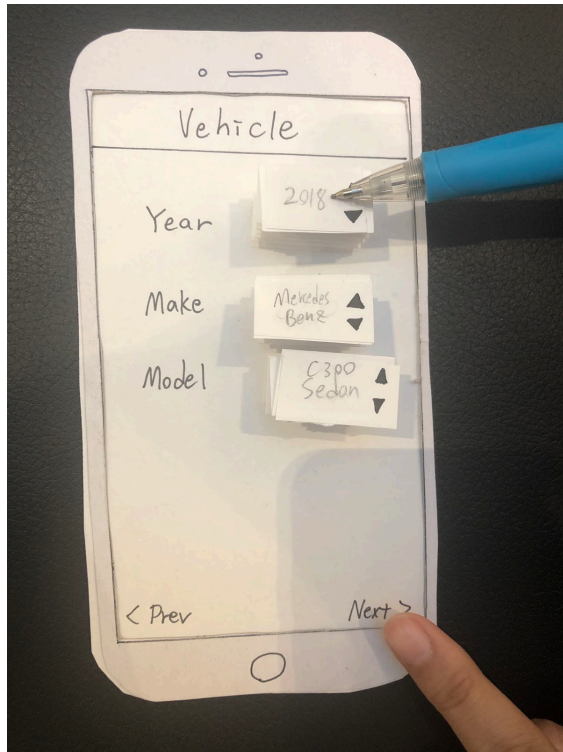Plan long distance trips

Alert drivers

Initial Paper Prototype

Task 1: Plan time to drive, rest, and switch on a long distance road trip

Task 1: Plan time to drive, rest, and switch on a long distance road trip

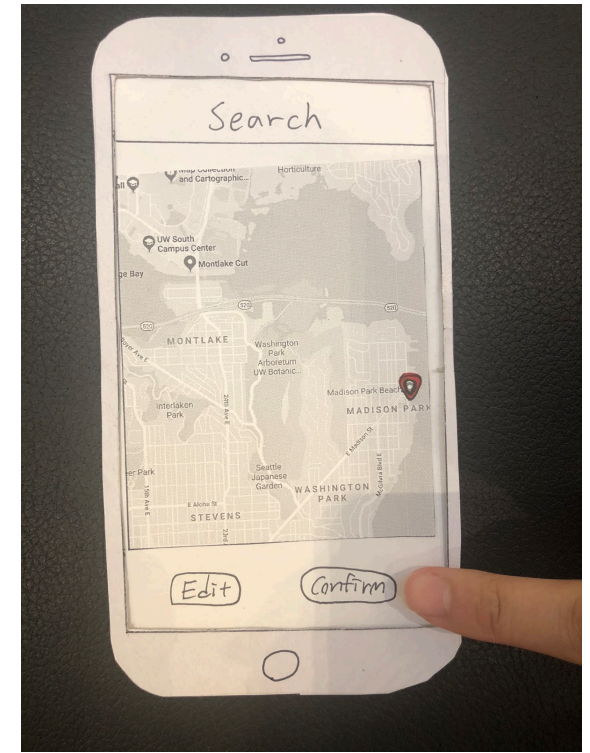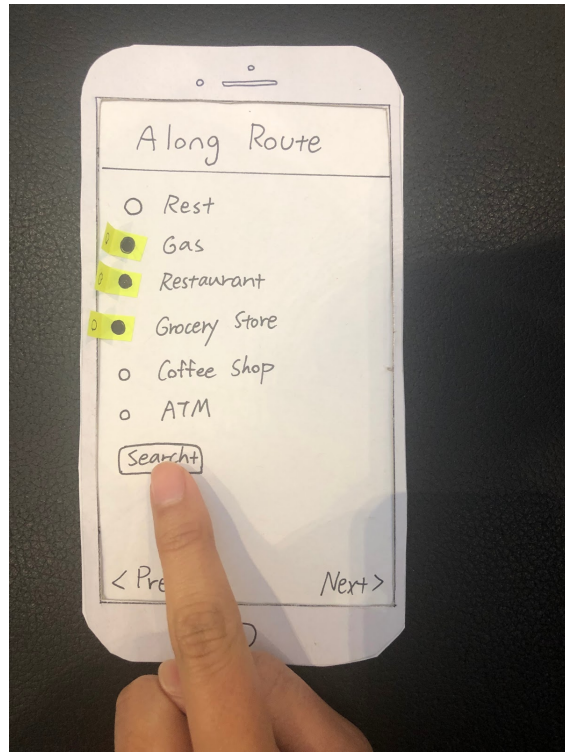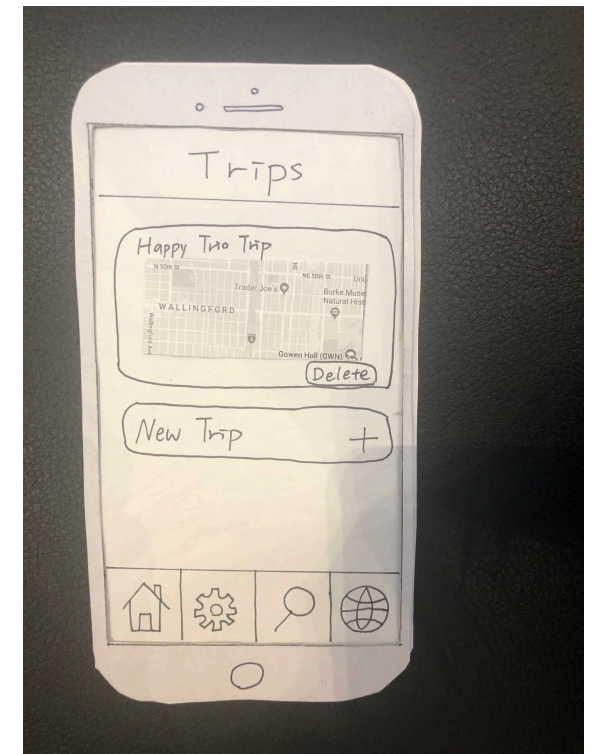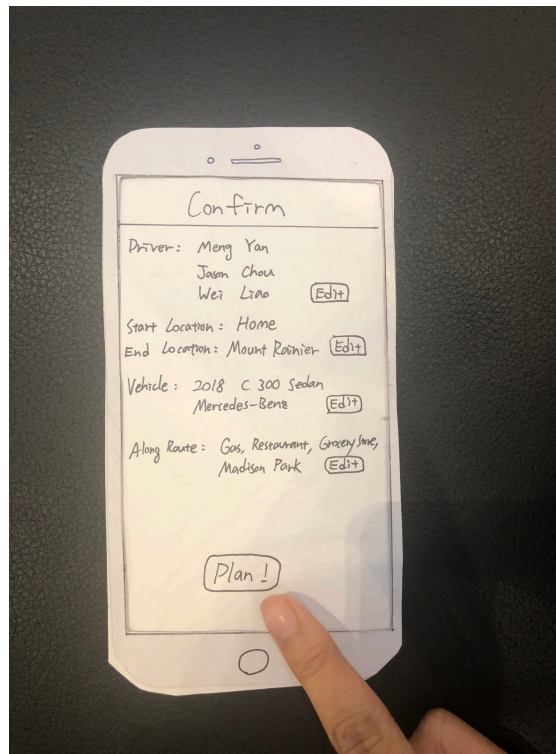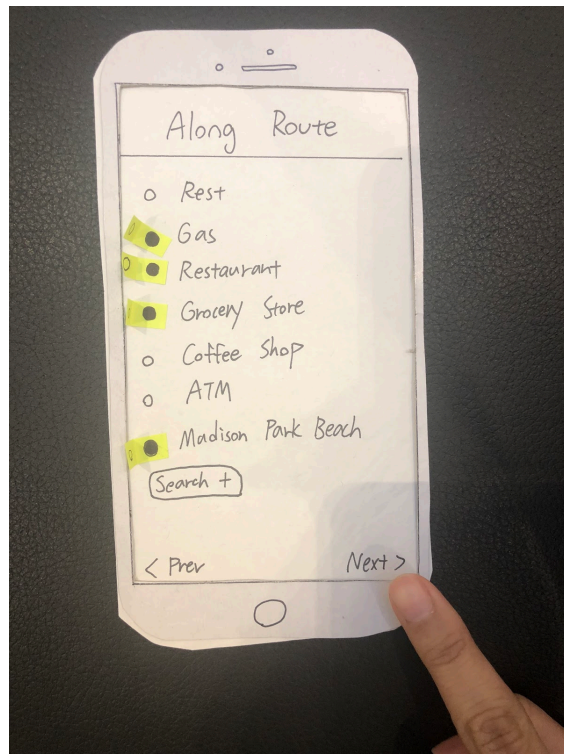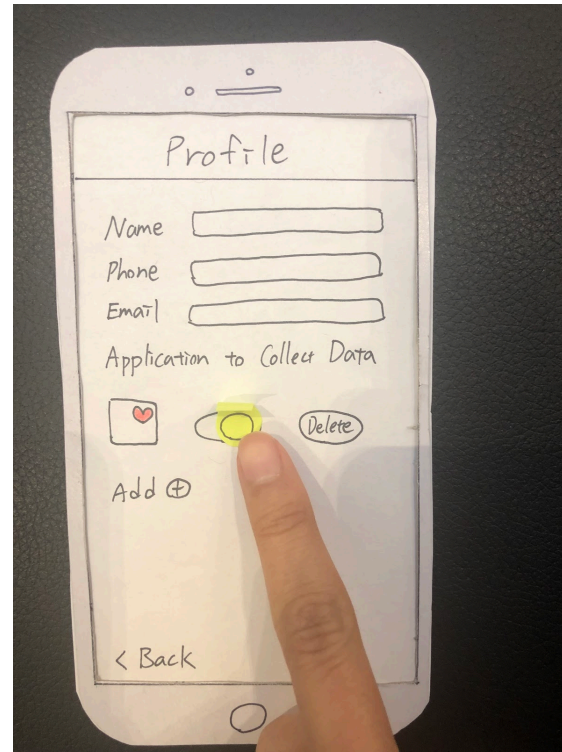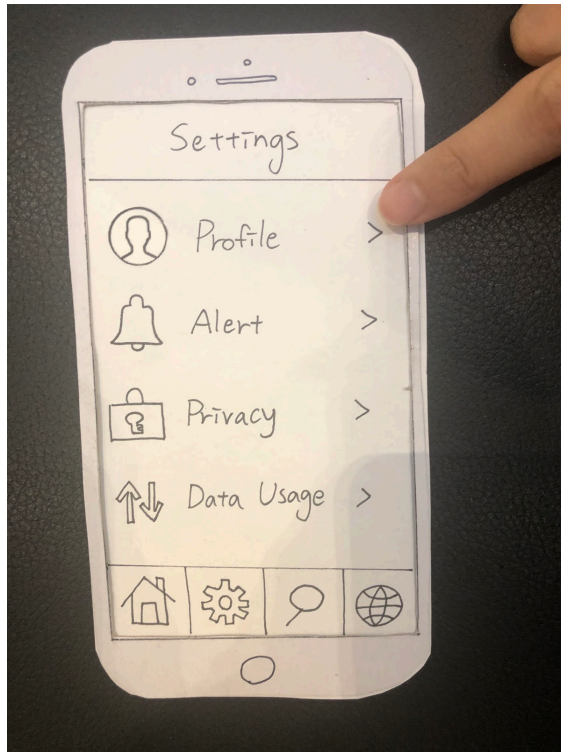Task 1: Plan time to drive, rest, and switch on a long distance road trip

Task 1: Plan time to drive, rest, and switch on a long distance road trip

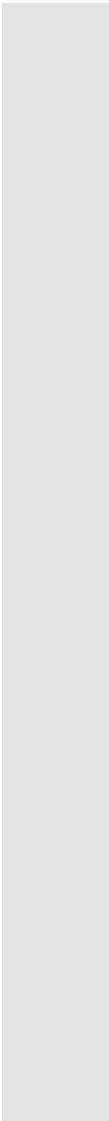Task 2: Measure a person's driving limit and keep him/her alert

Testing Process

- Three stages:
  - Heuristic Evaluation
    - Two other groups in our CSE 440 class
  - Usability Testing
    - One UW Senior student and two working adults. All have long distance driving experience
  - Design Critique
    - Two TAs from our CSE 440 section

Testing Process

- Ask participants to perform two primary tasks.
- Ask for additional user feedback on application.
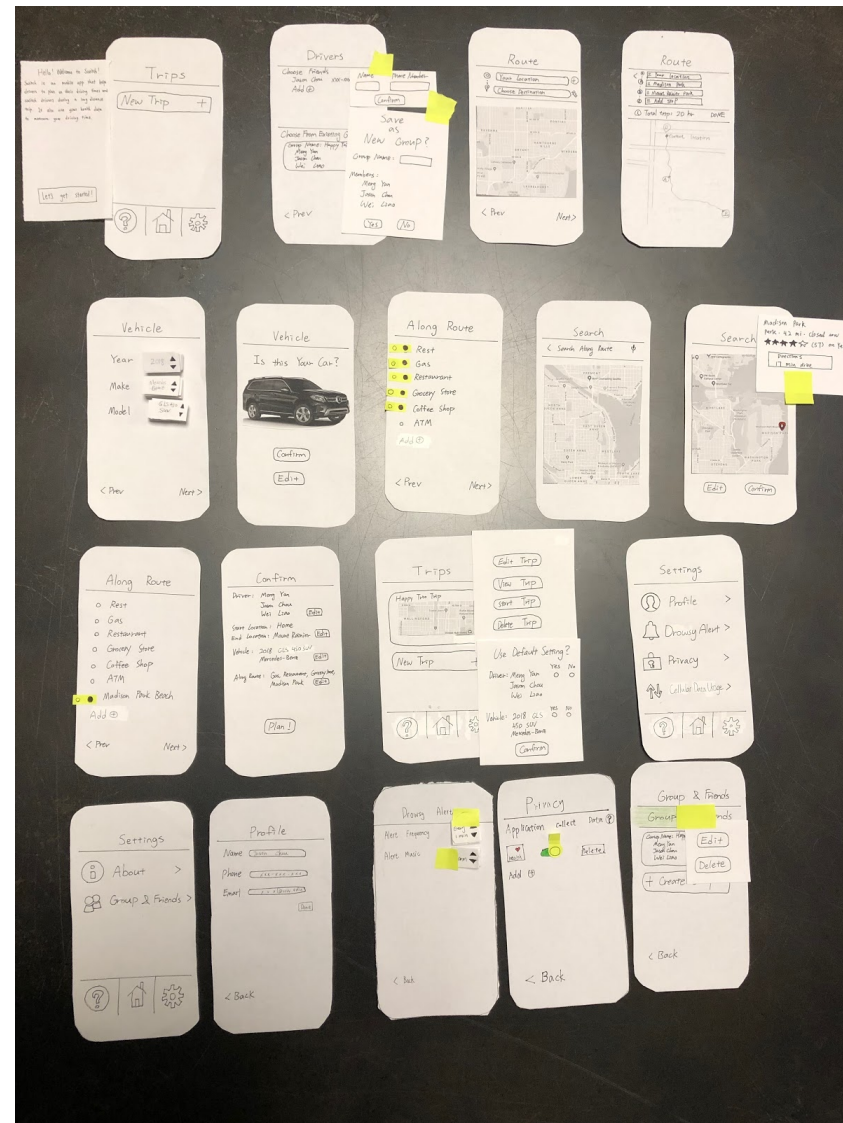- Questions addressing any confusion of the application.

Testing Result

- Reselect drivers and vehicles every time using the app
  - **Provided users default drivers, groups, and vehicles options later on**

- Inconsistence icons
  - **Changed our icons to make them consistent**

- Multiple destination request
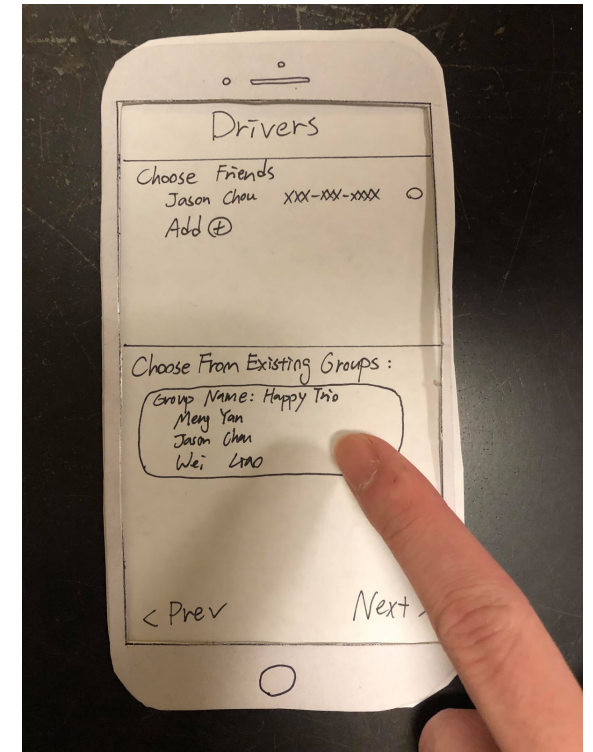 - **Changed our route page to allow users to add more destinations**

Testing Result

- Misunderstanding Alert usage
  - **Changed the name "Alert" to "Drowsy Alert"**
- Lack of explanation of data use
  - **Added a welcome page to explain that we need theses data to measure the driver's driving limit**
- Flexibility of made trips
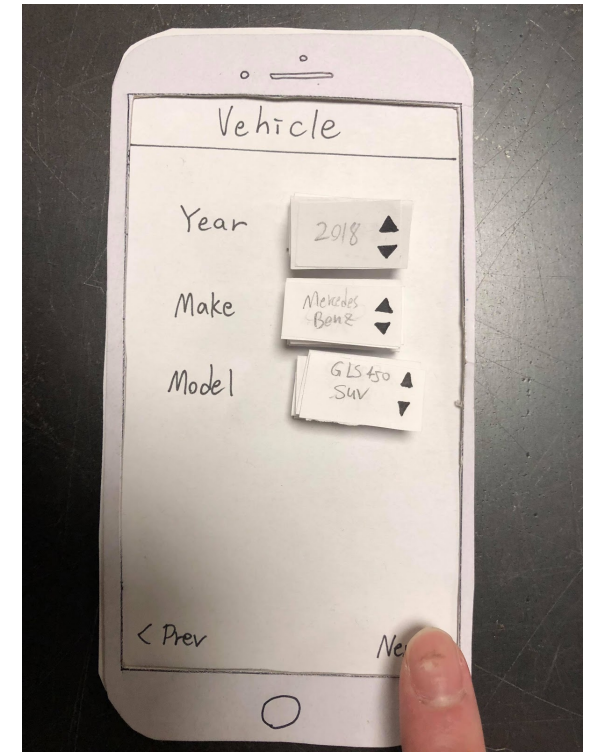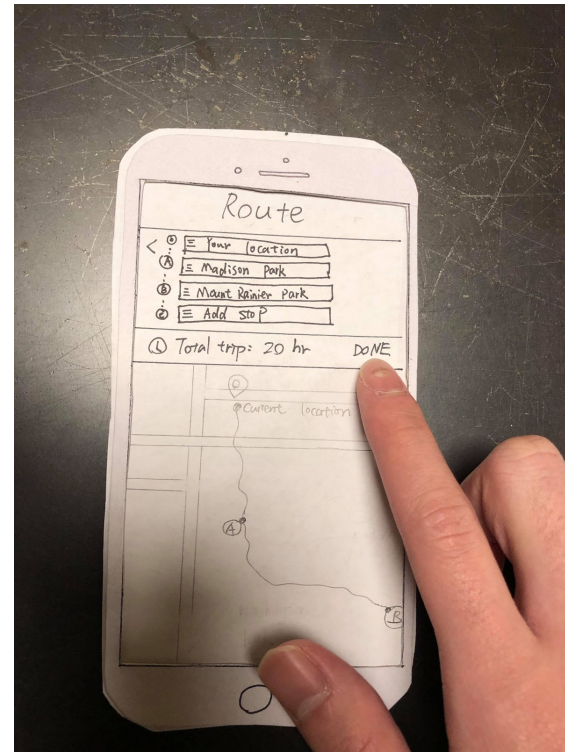 - **Added a pop up menu to have buttons for "edit trip", "view trip", "start/delete" trip.**
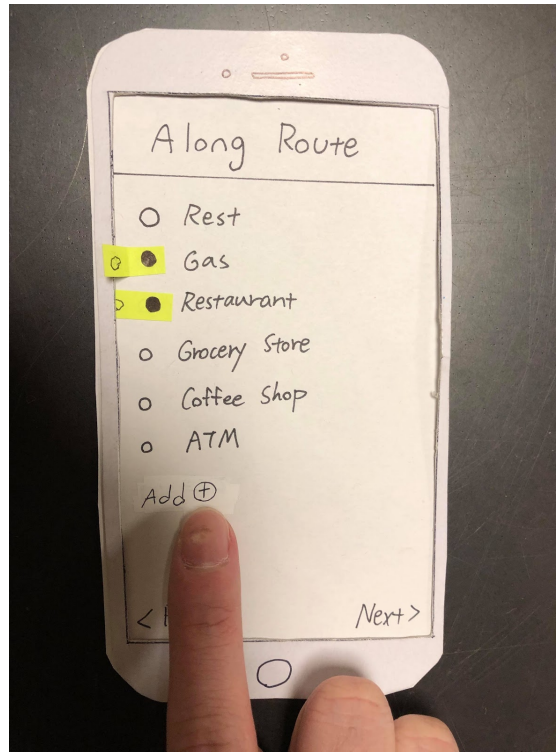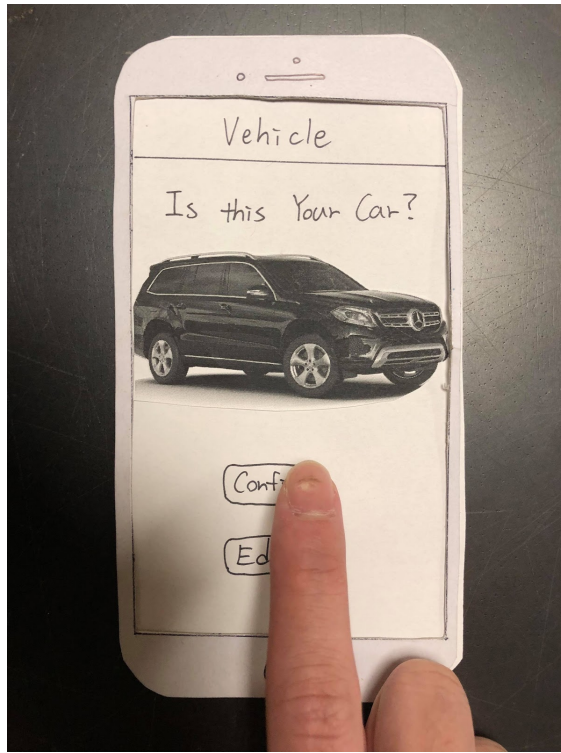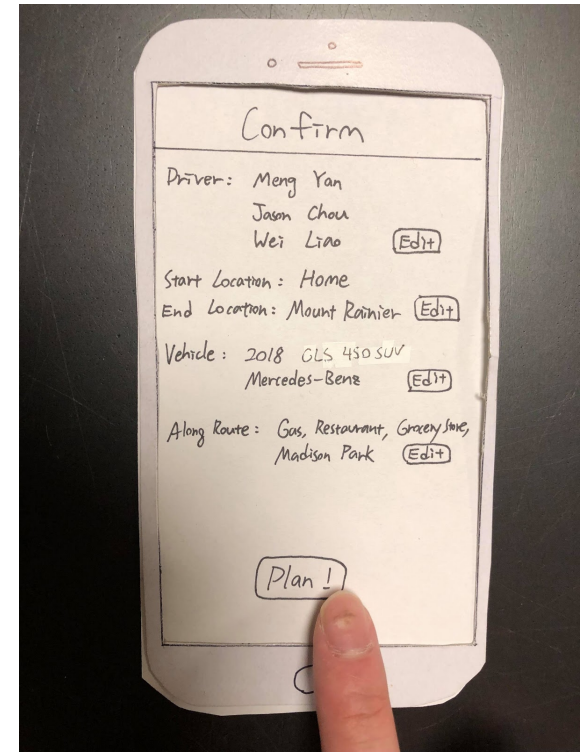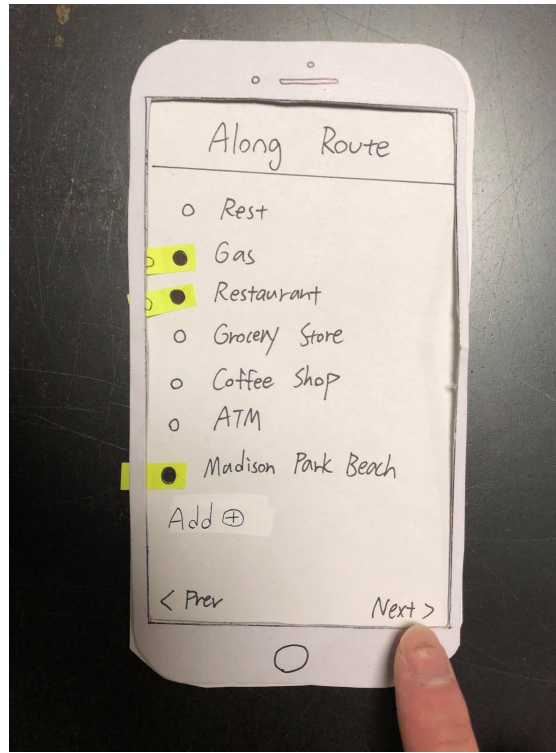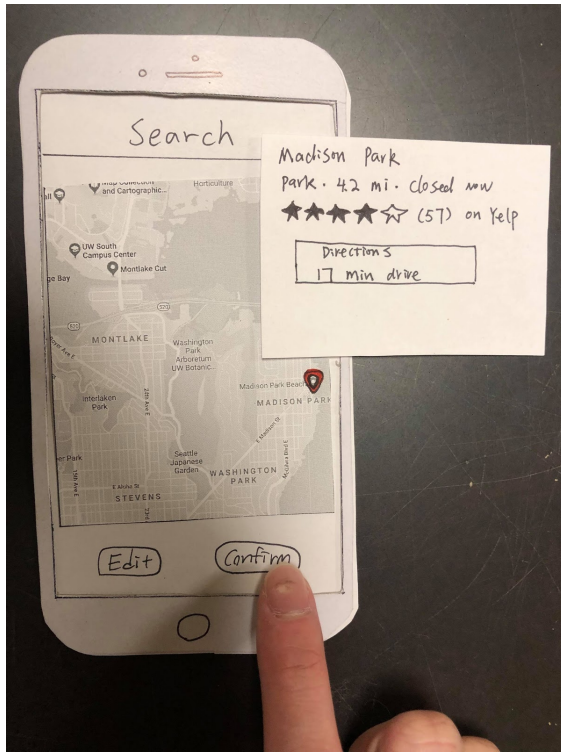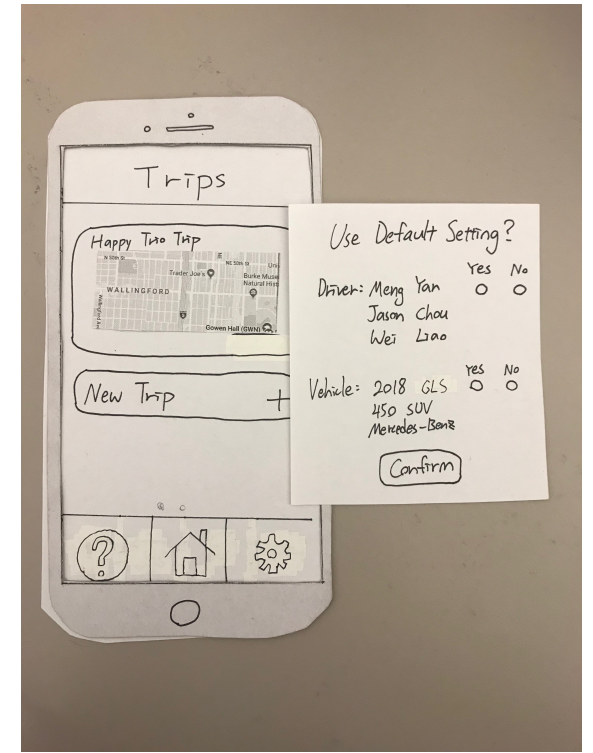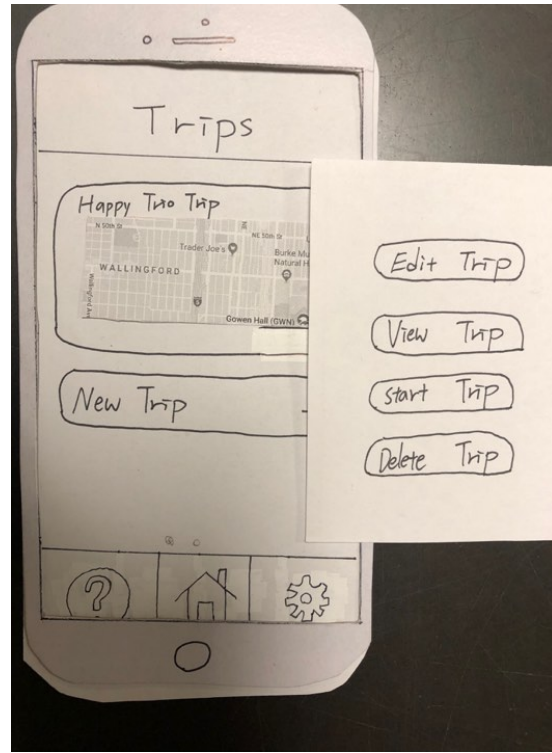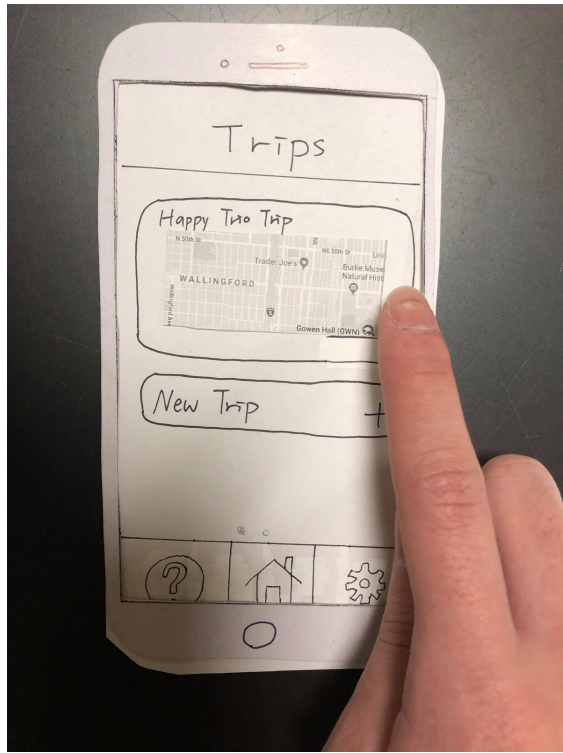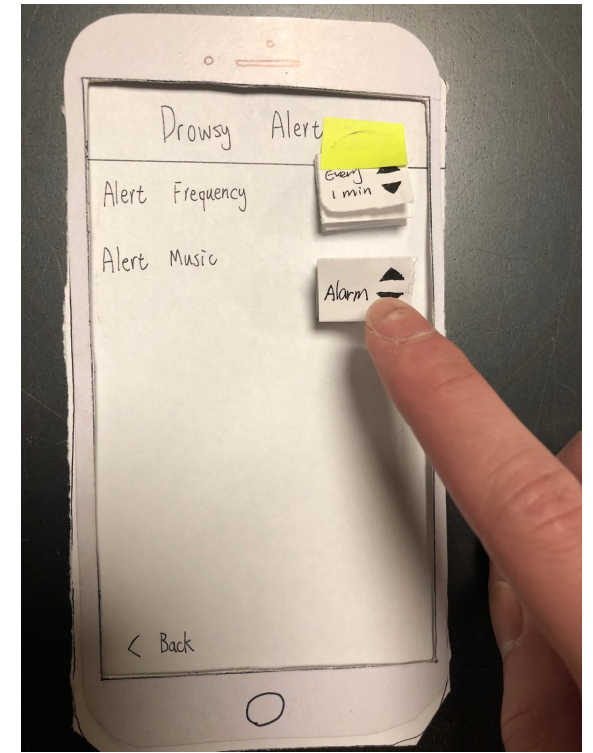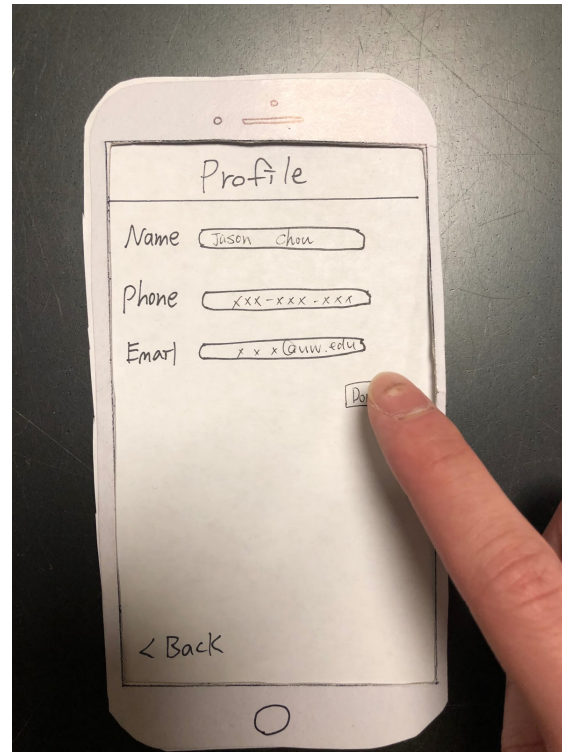
Final Paper Prototype

Task 1: Plan time to drive, rest, and switch on a long distance road trip

Task 1: Plan time to drive, rest, and switch on a long distance road trip

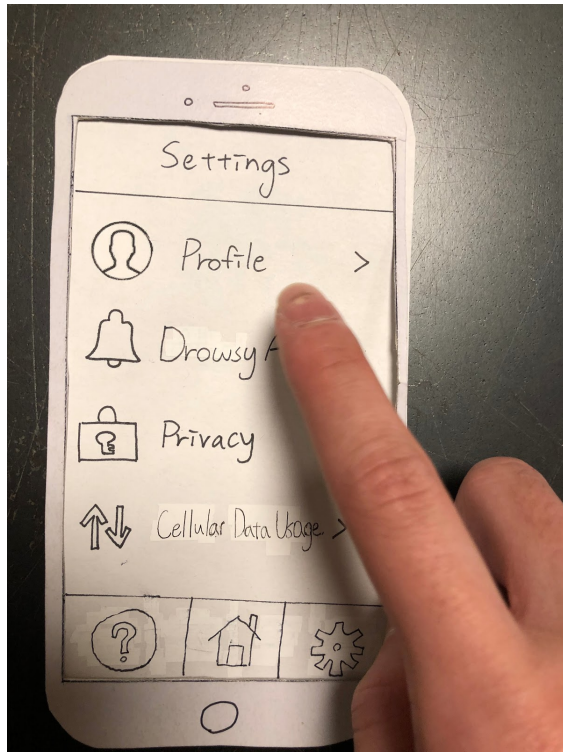Task 1: Plan time to drive, rest, and switch on a long distance road trip

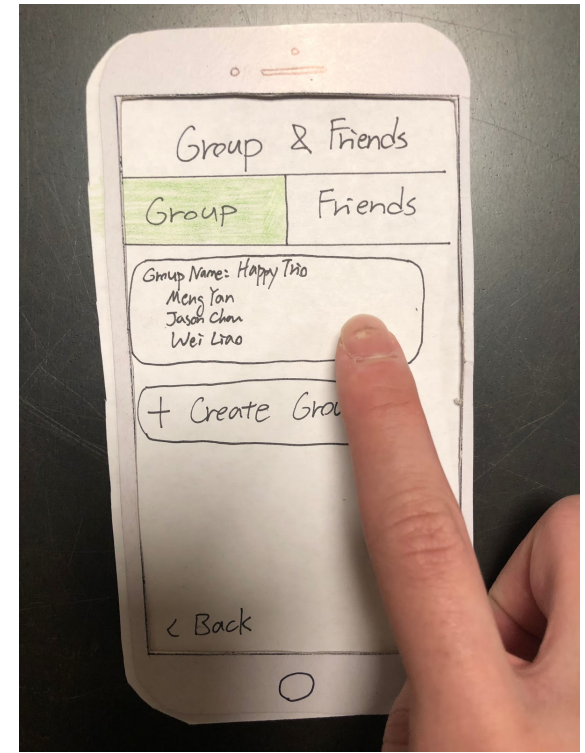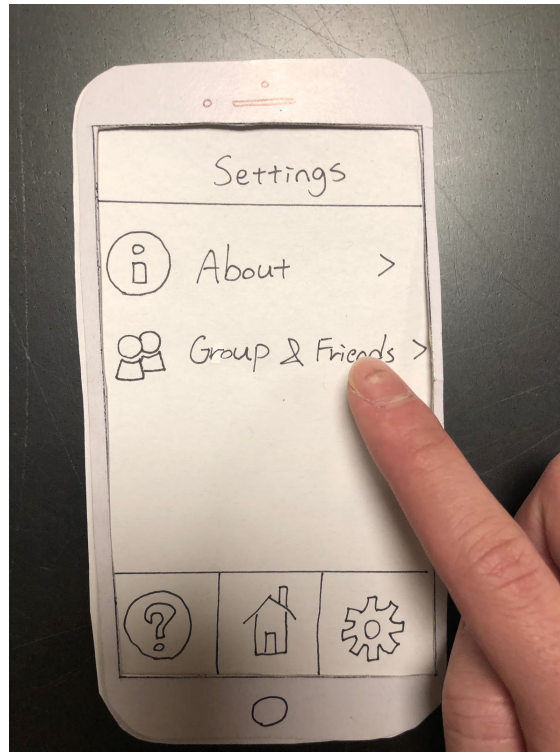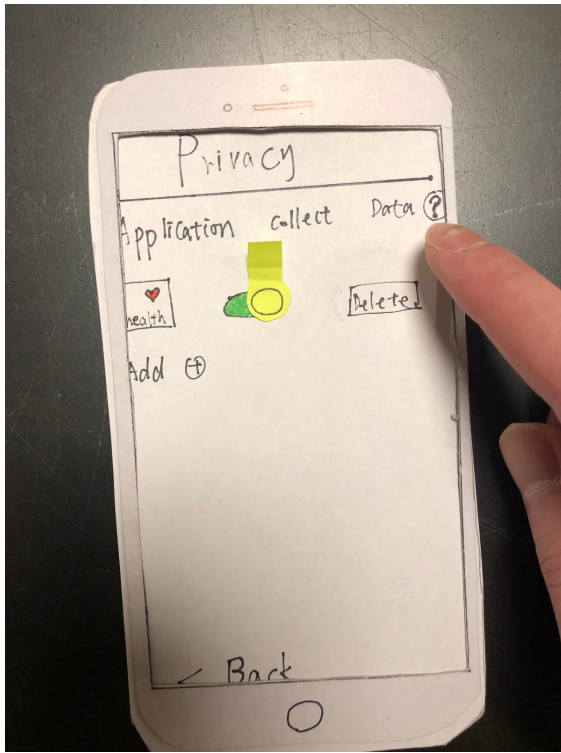Task 1: Plan time to drive, rest, and switch on a long distance road trip

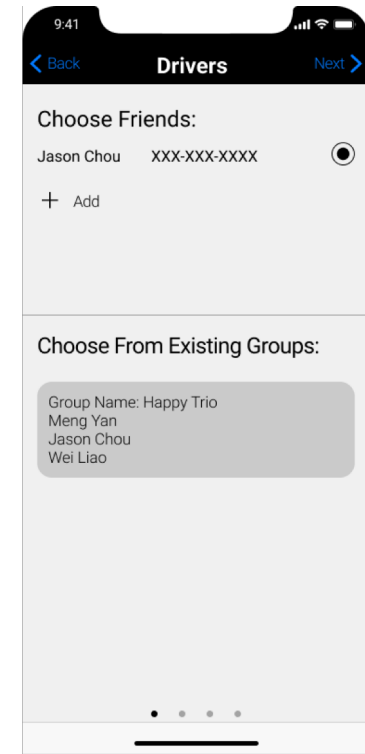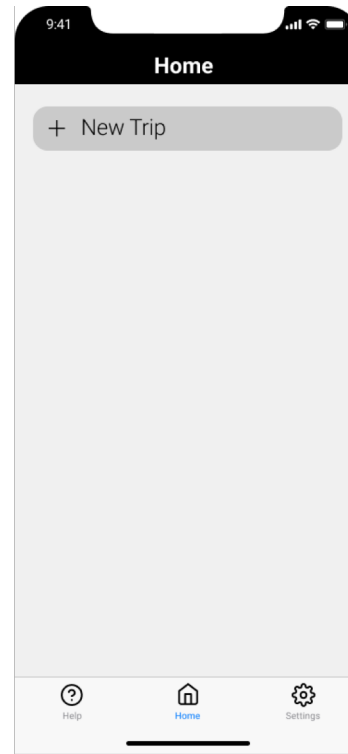Task 1: Plan time to drive, rest, and switch on a long distance road trip

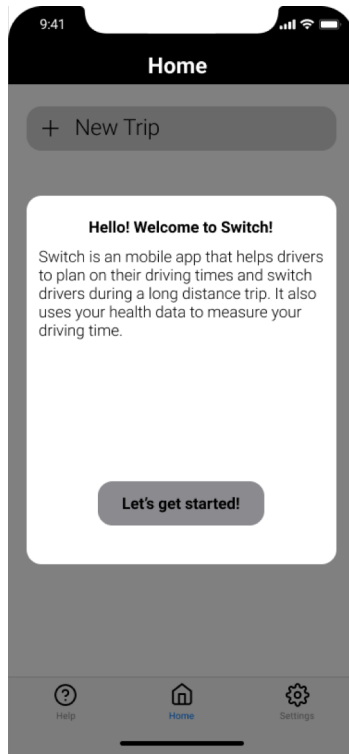Task 2: Measure a person's driving limit and keep him/her alert

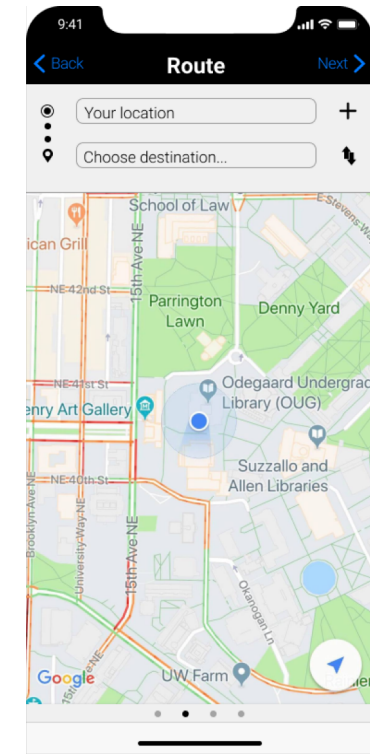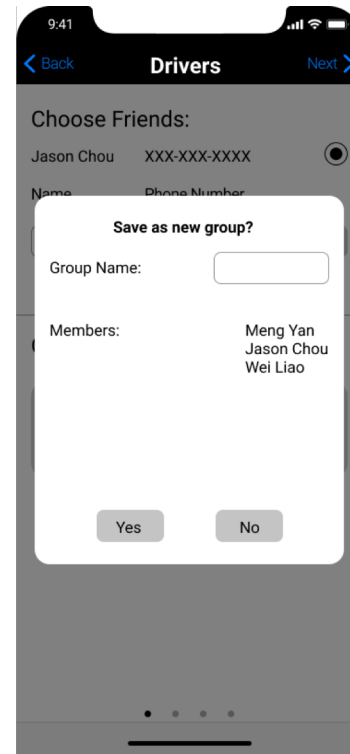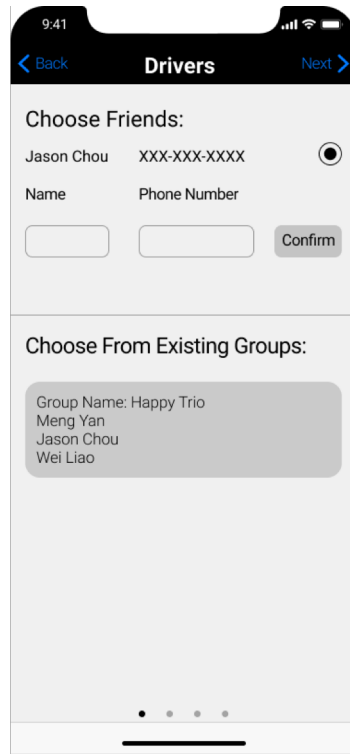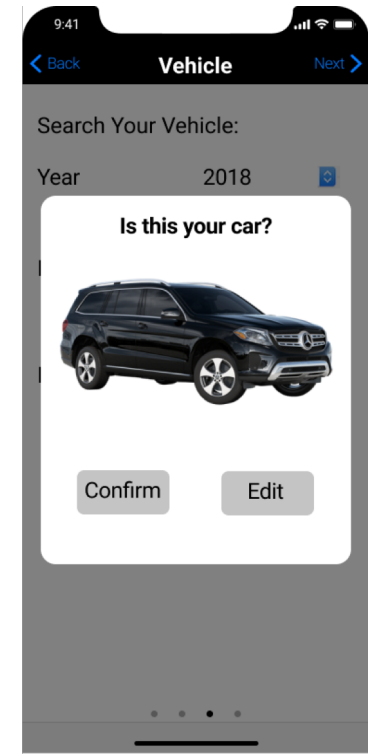Task 2: Measure a person's driving limit and keep him/her alert

Digital Mockup

Task 1: Plan time to drive, rest, and switch on a long distance road trip

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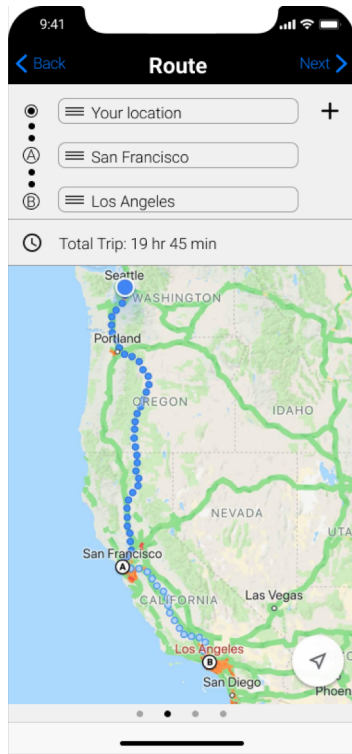
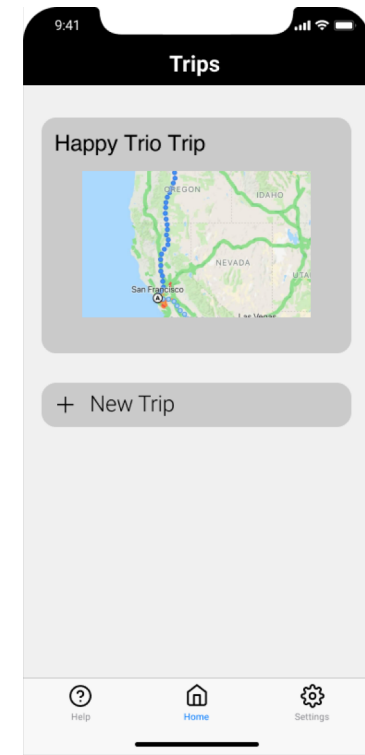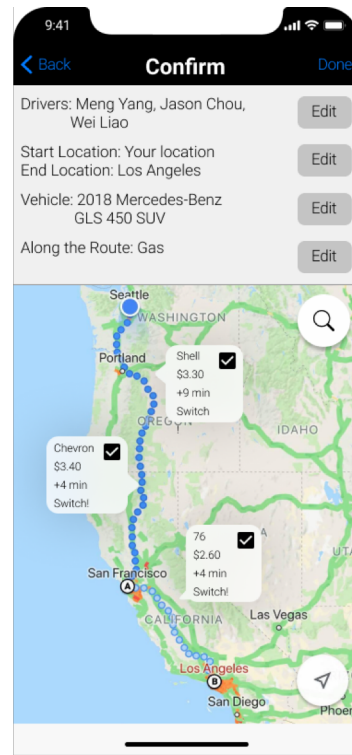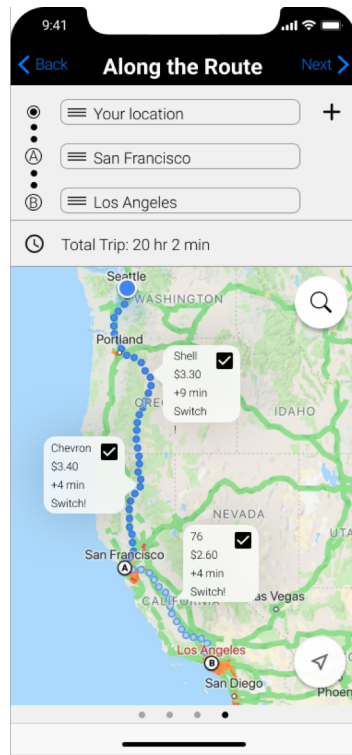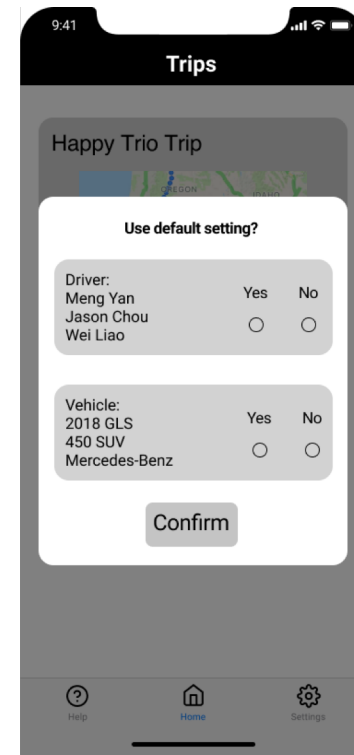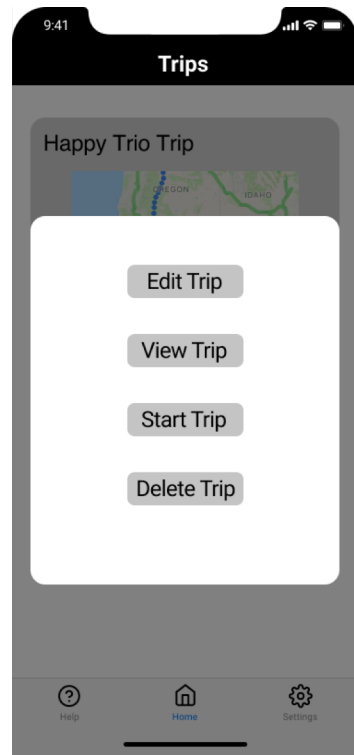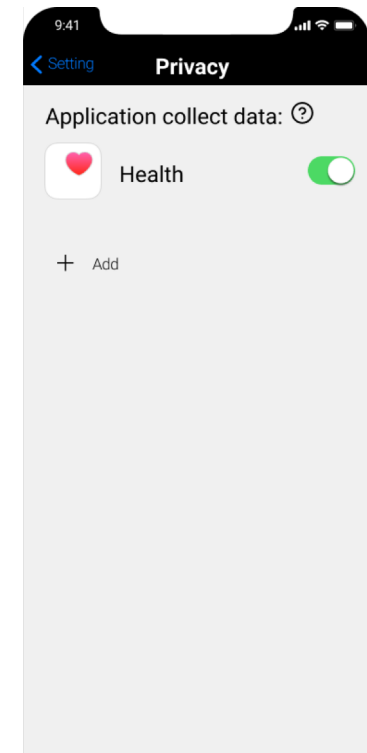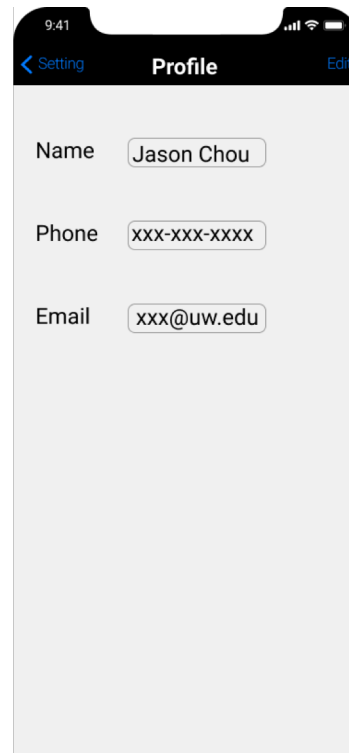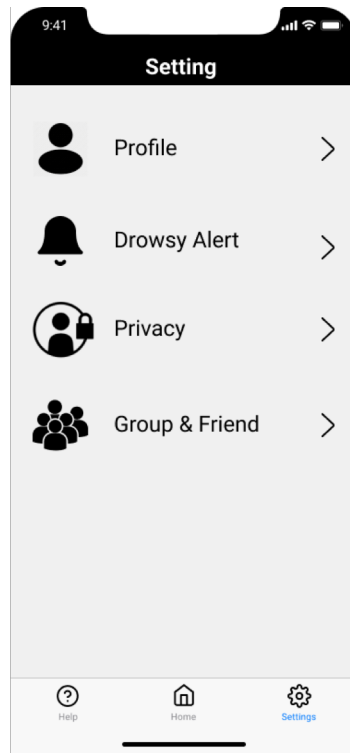Task 1: Plan time to drive, rest, and switch on a long distance road trip
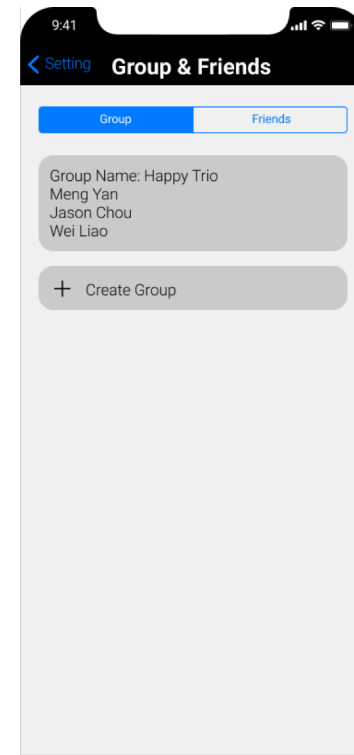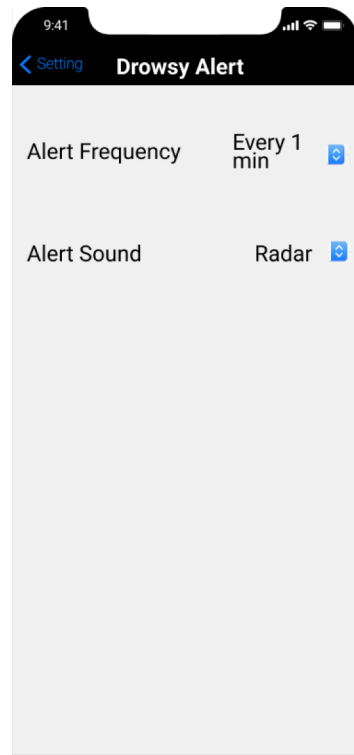
Task 1: Plan time to drive, rest, and switch on a long distance road trip

Task 1: Plan time to drive, rest, and switch on a long distance road trip

Task 2: Measure a person's driving limit and keep him/her alert

Drowsy Alert

Alert Frequency	Every 1 min
Alert Sound	Radar

Group & Friends

Group | Friends

Group Name: Happy Trio
Meng Yan
Jason Chou
Wei Liao

+ Create Group

Task 2: Measure a person's driving limit and keep him/her alert

Summary

- Design idea was initially too broad
- Feedbacks effectively improve our design

Thank you