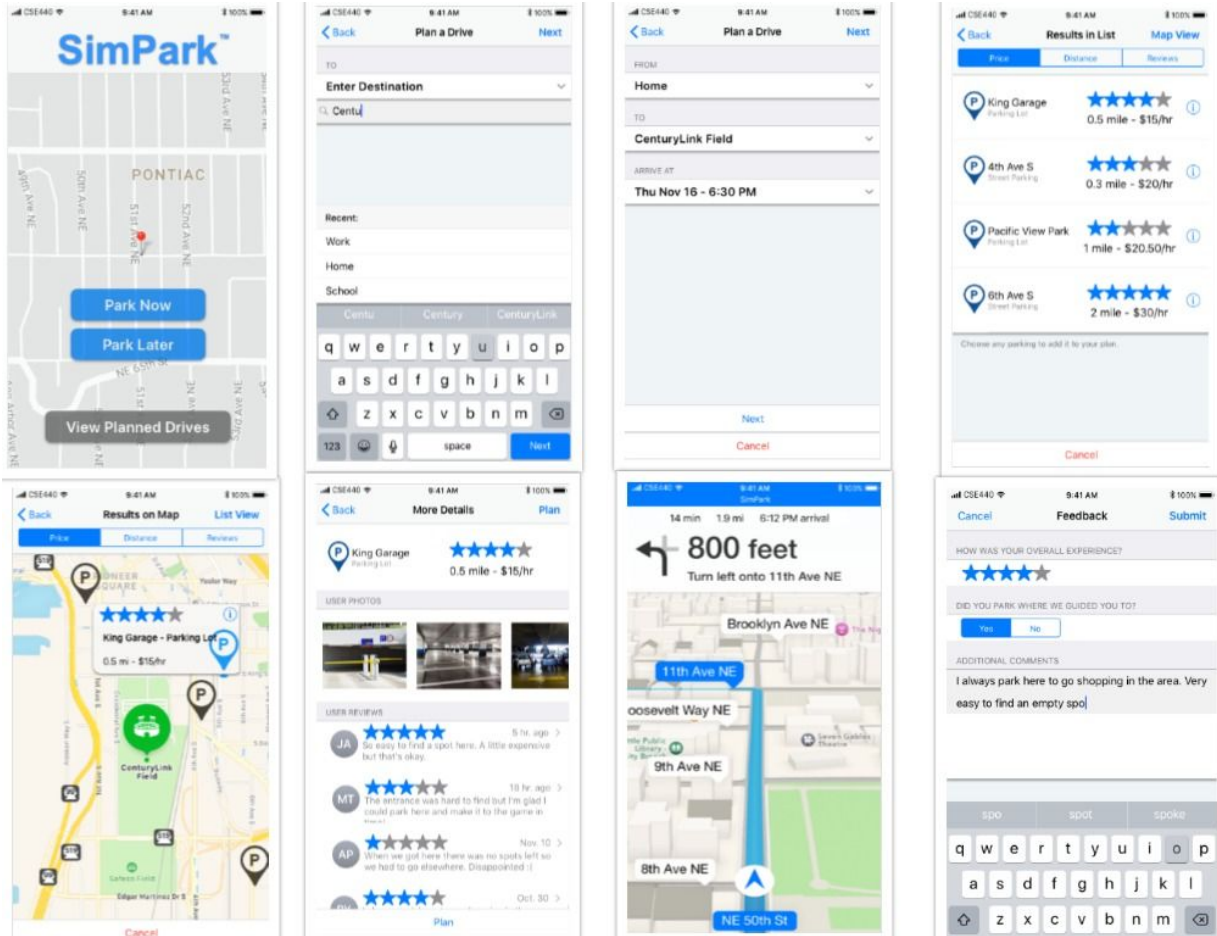


SimPark - 3e: DIGITAL MOCKUP

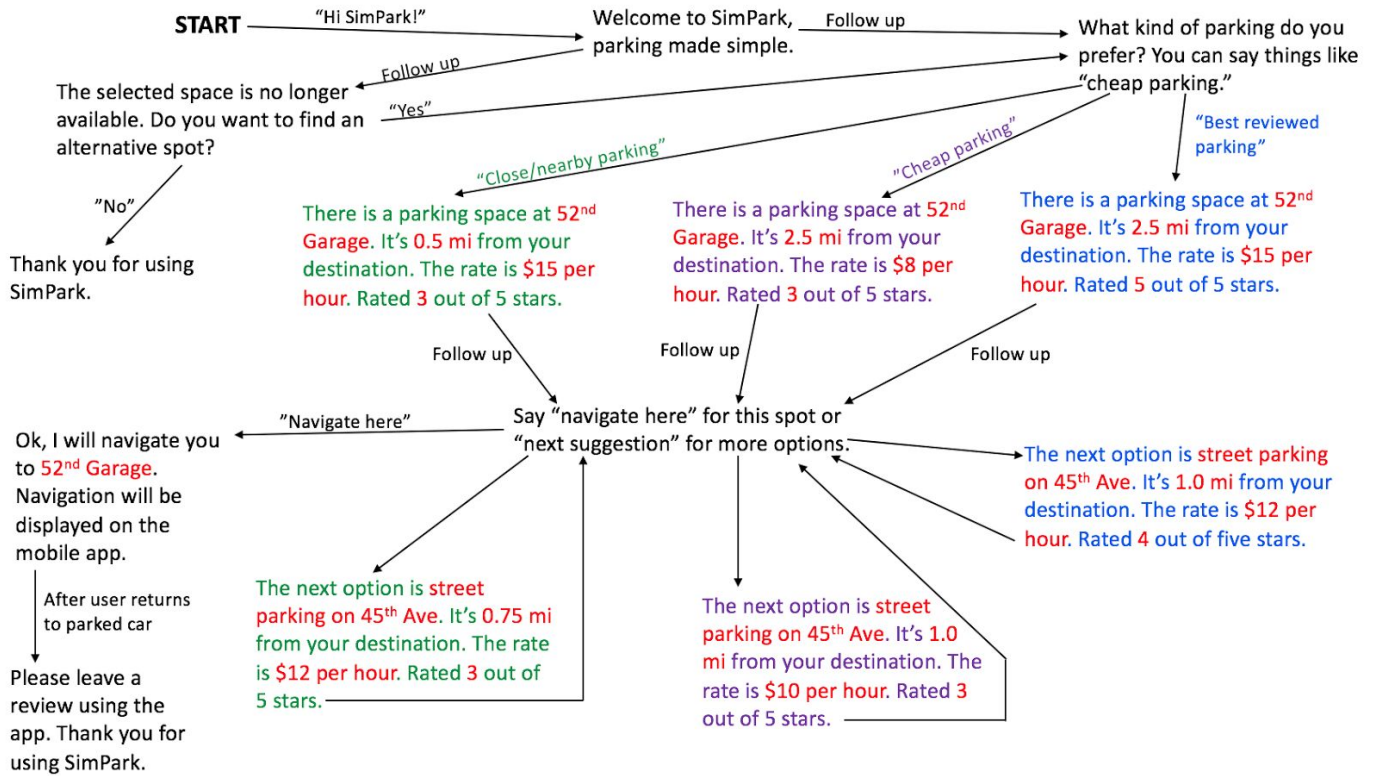
Adilene Pulgarin, Kathryn Chan, Sepehr Hakami, Umang Sehgal

DESIGN OVERVIEW:

Mobile Application:

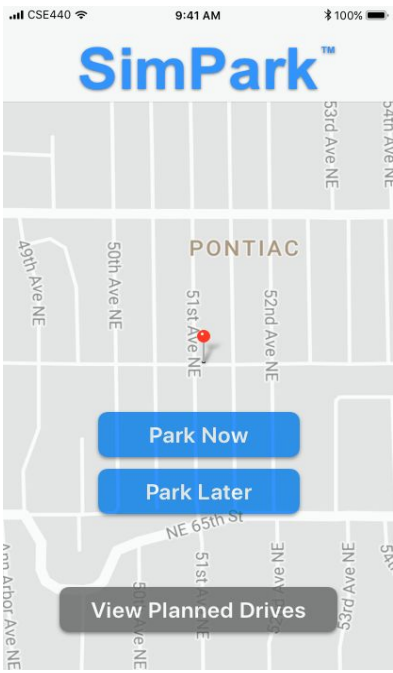
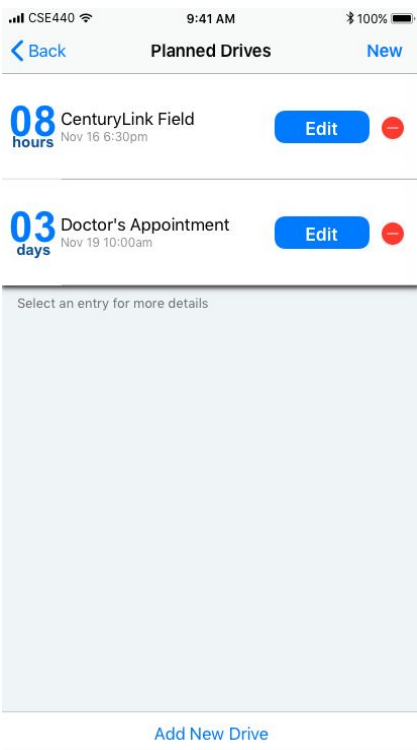


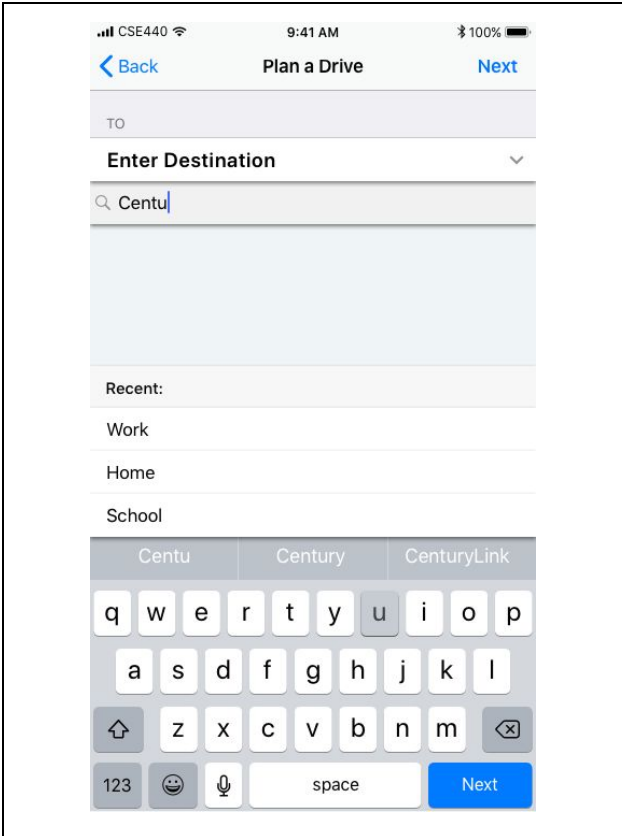
Speech Interface (Flowchart with scripted sentences):



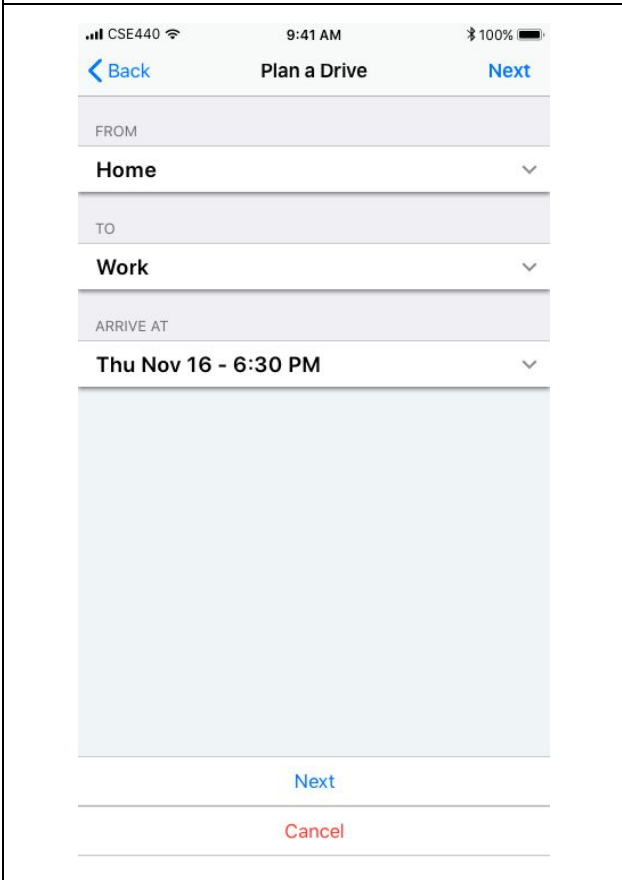
TASKS

Task 1: Planning where to park prior to the event.

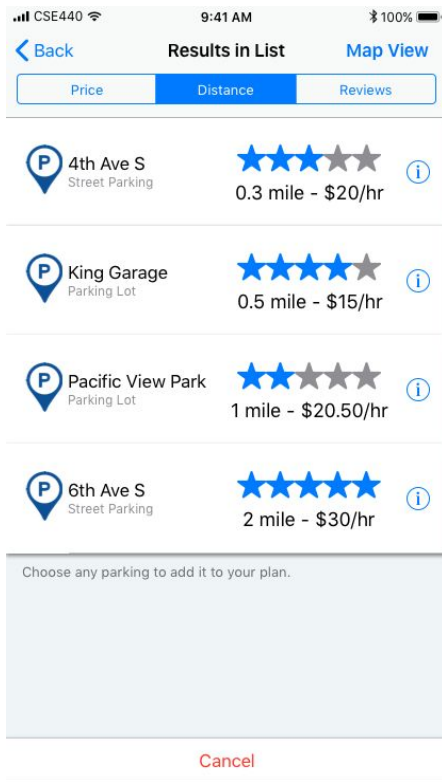
SCREEN	DESCRIPTION
 <p>The screenshot shows the SimPark app interface. At the top, the status bar displays 'CSE440', '9:41 AM', and '100%' battery. The app logo 'SimPark™' is prominently displayed. Below the logo is a map of Pontiac, Michigan, with a red location pin on 51st Ave NE. Three blue buttons are overlaid on the map: 'Park Now', 'Park Later', and 'View Planned Drives'.</p>	<p>The participant launches the SimPark app. He/she then decides among three options available to them from finding an immediate parking, parking later or viewing planned drives.</p>
 <p>The screenshot shows the 'Planned Drives' screen. At the top, there is a navigation bar with a back arrow, the title 'Planned Drives', and a 'New' button. Below the navigation bar, there are two drive entries. The first entry is '08 hours CenturyLink Field' with a date of 'Nov 16 6:30pm' and an 'Edit' button. The second entry is '03 days Doctor's Appointment' with a date of 'Nov 19 10:00am' and an 'Edit' button. Below the entries, there is a text prompt 'Select an entry for more details' and a large light blue area. At the bottom, there is a blue button labeled 'Add New Drive'.</p>	<p>On selecting the “View Planned Drives” option, the participant is able to view/edit the drives that have been planned before.</p>



On selecting the “Plan Drive” button, the participant is shown the most commonly visited destinations from his usage during his event of typing the desired parking destination



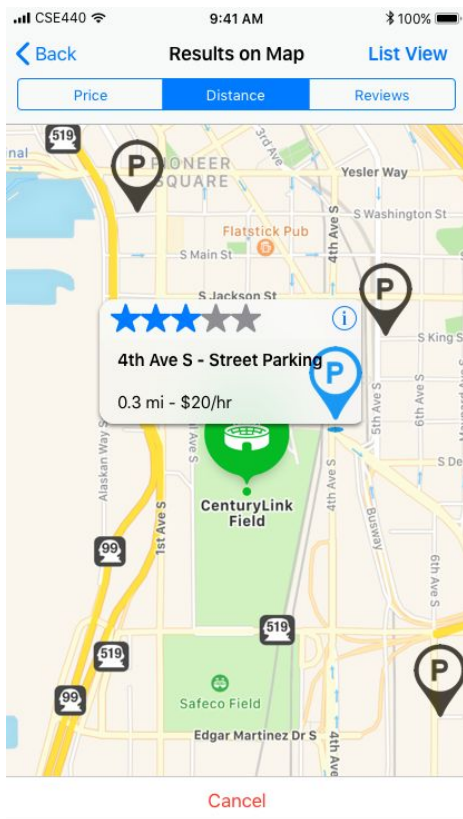
The participant’s inputs are then recorded and he/she gets to review them before moving to the next screen.



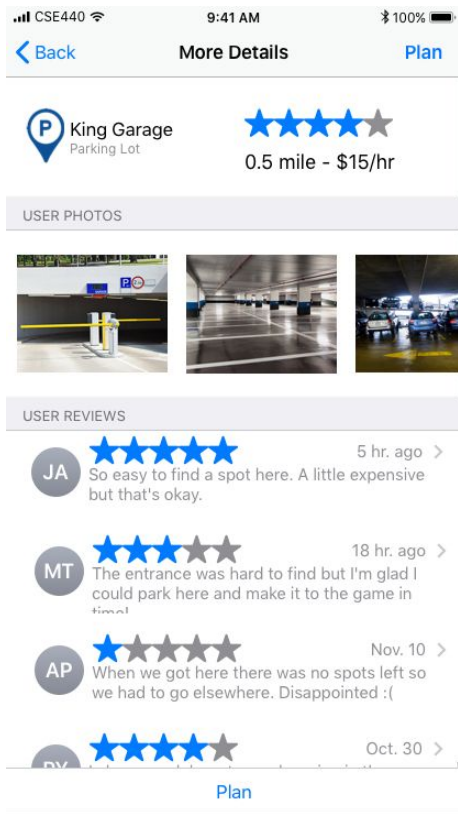
The participant is shown available parking spots at the selected location and time/date.

Following information is available for him/her to select before moving forward with the selected drive:

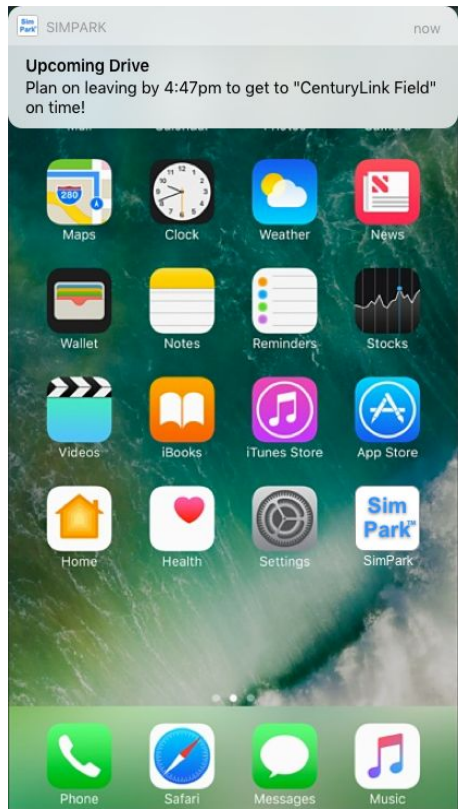
- Rating
- Price
- Distance
- Further details



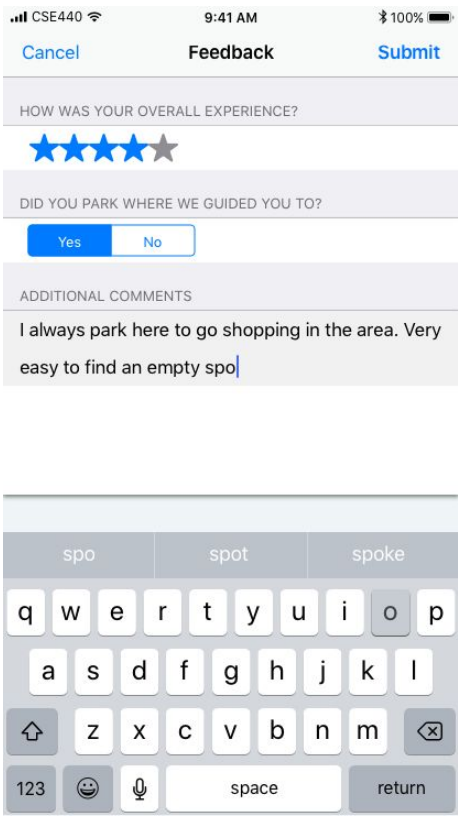
The participant sees a geographical display of the selected parking location. Other suggested parkings are displayed in black icons while the one currently being viewed is in blue.



When the participant clicks on the “More Details” button, further information is displayed including photos and reviews for the selected spot.

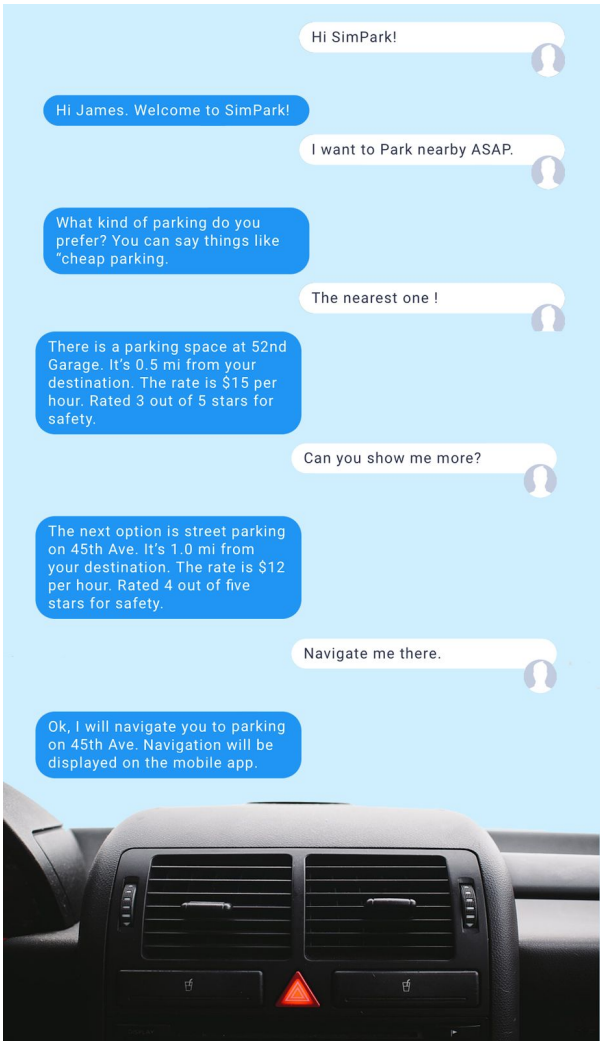


The participant is reminded via a notification to leave at a particular time in order to get to their destination on time.



On exiting the parking spot and on re-launching the app, the participant is suggested to provide feedback of their experience.

Task 2: Finding where to park when in the destination area.



Hi SimPark!

Hi James. Welcome to SimPark!

I want to Park nearby ASAP.

What kind of parking do you prefer? You can say things like "cheap parking."

The nearest one !

There is a parking space at 52nd Garage. It's 0.5 mi from your destination. The rate is \$15 per hour. Rated 3 out of 5 stars for safety.

Can you show me more?

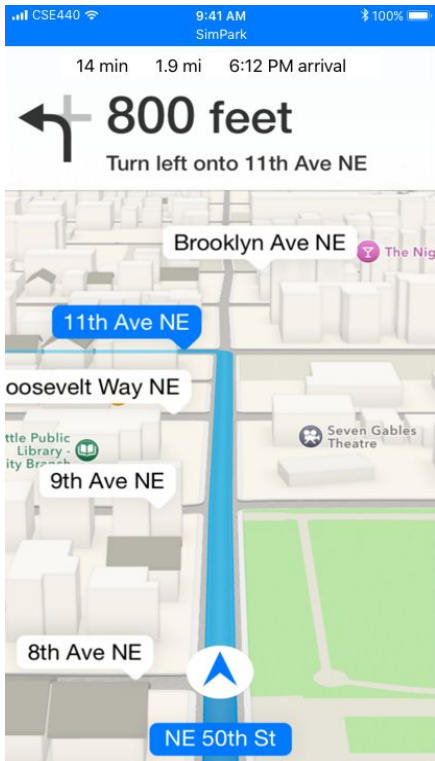
The next option is street parking on 45th Ave. It's 1.0 mi from your destination. The rate is \$12 per hour. Rated 4 out of five stars for safety.

Navigate me there.

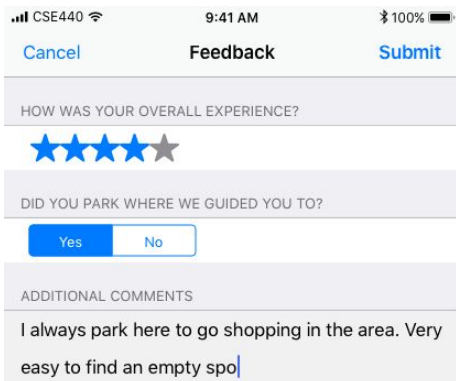
Ok, I will navigate you to parking on 45th Ave. Navigation will be displayed on the mobile app.

The participant is guided through voice commands when he/she clicks on the "Park Now" at the start of the app. There is no further touch interaction with the app thereafter.

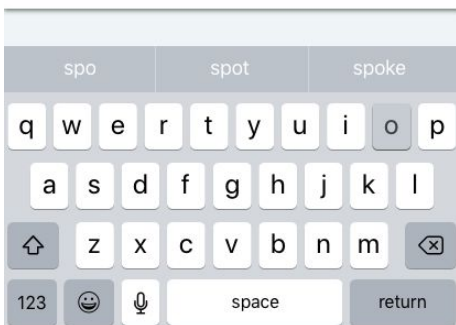
The participant is also prompted through a voice interactions when he/she is near the destination through voice commands and interactions.



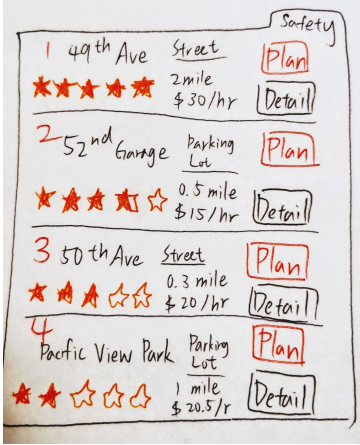
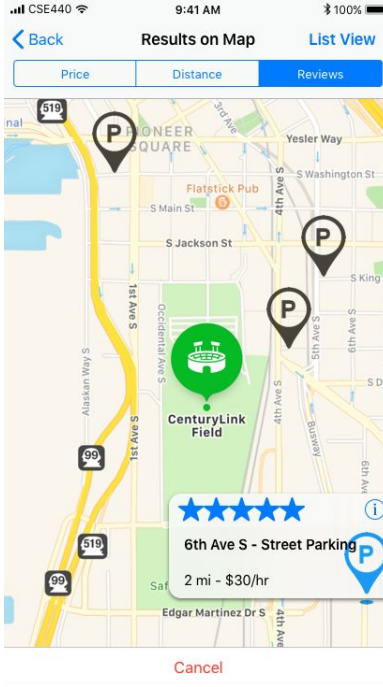
Once the participant has been guided through the speech interface, he/she is navigated to the requested parking spot.

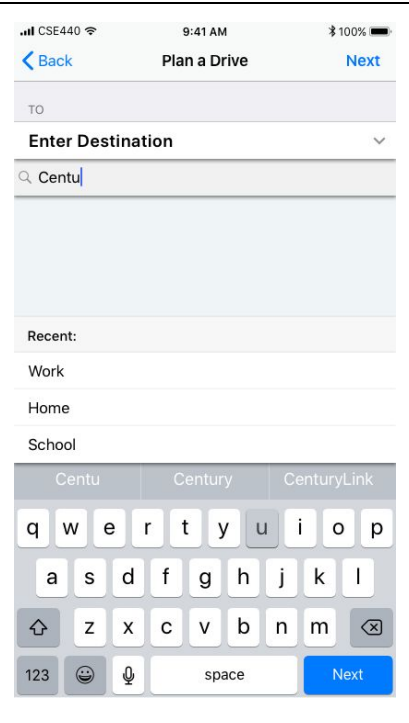
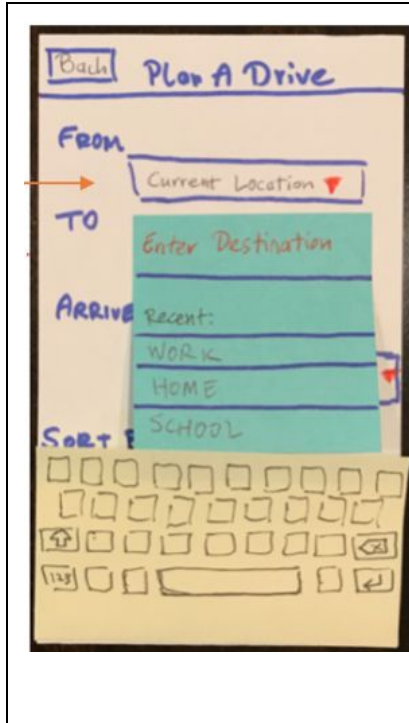


On exiting the parking spot and on re-launching the app, the participant is suggested to provide feedback on their experience.



CHANGES

BEFORE	AFTER	RATIONALE
 <p>A hand-drawn sketch of a list of parking spots. The list is titled 'Safety' in the top right corner. It contains four entries, each with a star rating, location, distance, price, and buttons for 'Plan' and 'Detail':</p> <ul style="list-style-type: none"> 1 49th Ave Street: 5 stars, 2 mile, \$30/hr 2 52nd Garage Parking Lot: 4 stars, 0.5 mile, \$15/hr 3 50th Ave Street: 4 stars, 0.3 mile, \$20/hr 4 Pacific View Park Parking Lot: 3 stars, 1 mile, \$20.5/hr 	 <p>A screenshot of a mobile app interface. At the top, it says 'Results on Map' with a 'List View' option. Below are filters for 'Price', 'Distance', and 'Reviews'. The main area shows a map with several parking spots marked with 'P' icons. A pop-up window for '6th Ave S - Street Parking' is visible, showing a 5-star rating and '2 mi - \$30/hr'. A 'Cancel' button is at the bottom.</p>	<p>We decided to change the filter by “Safety” to filtering by “Review.” We found that the star rating was too ambiguous in representing safety. It is also more common to see stars representing overall rating not just one particular aspect.</p>
 <p>A hand-drawn sketch of a 'More Details' screen for a parking spot. It includes a title 'More Details', a close button 'X', and the following information:</p> <ul style="list-style-type: none"> 52nd Garage (with 'Plan' button) 0.5 mile \$15/hr Star rating: 4 stars (with a 5th star outline) User Photos: Three placeholder boxes and a '...' menu icon. Reviews: A placeholder box and a '...' menu icon. 	 <p>A screenshot of a mobile app interface showing 'More Details' for 'King Garage Parking Lot'. It displays a 4.5-star rating and '0.5 mile - \$15/hr'. Below are sections for 'USER PHOTOS' (three photos of the garage) and 'USER REVIEWS' (three reviews with star ratings and dates):</p> <ul style="list-style-type: none"> JA: 5 stars, 5 hr. ago: "So easy to find a spot here. A little expensive but that's okay." MT: 4.5 stars, 18 hr. ago: "The entrance was hard to find but I'm glad I could park here and make it to the game in time!" AP: 4 stars, Nov. 10: "When we got here there was no spots left so we had to go elsewhere. Disappointed :(" 	<p>Rather than having a pop-up window with all the details shown, we felt it was better to display all the details on a completely new screen. This makes it easier for the user to scroll through the reviews while viewing all the general information.</p>



When entering a new location in the “To” field and the “From” field, we decided that it would be best to do this in a new screen. This is easier for the user to look at as it is more organized and avoids accidentally clicking outside the designated fields.