

Assignment #6: ReadMe

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Link to prototype

<https://invis.io/NWE989697>

Prototype Tools

The prototypes were designed in Sketch and run with InVision.

Operating Instructions

Use the mouse to interact with the prototype, just like you use your finger to interact with the real product. You can click on some of the bars, buttons and points on the map to see the reaction. It's possible that some of them will not respond; if that's the case, please try others.

Here are the three tasks and how can you finish them:

Simple Task: Find available parking spaces nearby

Imagine that you're driving and it's hard to find a parking place nearby. Show me how to use our app to find a nearby parking slot.

Steps of operation for Simple Task:

- In the main screen, check nearby points. These are available parking spots. Ignore the semi-transparent ones for now.
- Click on any of these, and check the price. If you think it's good, click select and we will navigate you there.
- If none of them looks ideal, try to click on a semi-transparent one -- it is an ePa spot and you need to reserve it to use. We will direct you to the reserve screen, and then follow the steps for Medium Task (described below).

Medium: Reserve parking space in advance

Imagine that you're at work but you want to reserve 10 parking slots near your house, on Friday night 6pm~12am for an in-house party.

Steps of operation for Medium Task:

- On the top of the screen, click on the toggle bar to switch to reserve mode.
- Follow the instruction to enter destination and reserve time.
- If this is your first time using reservation functionality, there will appear a screen of instruction, read them carefully. You can always check this instruction by click the 'i' button on the map in the next step.

- Then it appears a map near your destination. Follow the instruction before and click on some of the points. If you click on a parking structure, enter how many do you want.
- Then there will be a confirmation screen indicating what you want to reserve and how much. You need to pick a payment method and pay for now.
- You can ask for an email confirmation of your reservation. You can also set SMS text notification, so that we will notify you before your reservation begins.

Complex: Rent out private parking space

Imagine that you have a house with three private parking slots, but you only need one of them. You can use our app to rent-out the other two to make some money.

Steps of operation for Complex Task:

- Click on the pull menu, and click Rent-out.
- Follow the instruction and provide the required information.
- When you're asked to upload pictures, be sure to include a photo of your spot and a photo of files proving your ownership of the spot.
- Check the estimate price. If you're satisfied, confirm and submit the request.

Prototype Limitations

1. Secondary tasks (e.g. onboarding) not included

We decided to exclude any secondary tasks (e.g. onboarding, navigation, image / file uploading and the functions in the pull-out menu except for the rent-out process) to allow users and evaluators better focus on the usability of the three main tasks.

2. Simplified gestures and animations

Due to the limitations of InVision the software, we have simplified user gestures (e.g. panning and zooming on the map) and certain animation sequences (e.g. sliding animation for pull-out menu, transitions between different screens) which will be included in our final prototype.

3. Certain secondary functions & instructions not included

To simplify the task flow, some of the secondary functions (e.g. user typing and input, re-centering on map, clickable parking spot) and instructions (e.g. warning / confirming messages, brief tutorials) in each of the three tasks are not included in our medium-fi prototype.

4. No real functionality (e.g. back-end)

Due to the focus on user experience of our interface, there is no actual functionality implemented such as back-end structures and usage of other relevant data (e.g. information on

the parking lots and users).

Wizard-of-Oz & Hard-coded Techniques

Wizard-of-Oz Techniques

System will recommend certain parking spots based on their prices and locations and user preferences which was then reflected in the size of the dots each of which represents an available parking space.

System will track the number of times an user clicks on non-ePa spot (n). When $n = 3$, a pop-up screen will notify user of maybe trying the ePa spot instead.

System gives rent-out rate estimation based on the location user provides.

Hard-coded Techniques

As an app that aims to make parking easy, we created mock users, mock parking spots and mock user input to simulate an end-to-end experience.