

# Assignment #8: README

## Installation Requirements

Download the expo app from App Store. Then use the app to scan the QR code:



## Operating Instructions

Here are the three tasks and how you can 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 ones with 'e' on it for now.
- Click on any of these, and check the price. If you think it's good, click 'Go' and we will navigate you there.
- If none of them looks ideal, try to click on one with 'e' on the dot - 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 Task: Reserve parking space in advance

Imagine that you're at work but you want to reserve 3 parking slots near your house, on Friday morning 8am~10am for an in-house meeting.

#### 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. For now, the time is set as 8am~10am.

- Then it appears a map near your destination. Click on any spots that look good to you, and their icons will become green check marks. If you want to cancel a spot that is already selected, re-click on that spot.
- Then there will be a confirmation screen indicating what you want to reserve and how much. Confirm it and click 'Pay'. If you want to edit your reservation, click on anywhere outside the confirmation box.
- We will send you email one hour prior to your reservation.

### **Complex Task: 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 steps and provide the required information. When you proceed, the information entered before will be displayed on the top. You can edit them at any time by just clicking on it.
- Check the estimate price. If you're satisfied, proceed to upload pictures.
- When you're asked to upload pictures, follow the instructions on the screen. If you're not sure about the meaning of Spot Certificate, click on the Info icon. You can always skip this step and continue later - to continue later, just click on the pull menu again and click Rent-out again.
- Confirm your application information, and submit.

### **Limitations**

- **Wizard of Oz Techniques**
  - We assume we have access to real-time parking spots information.
  - We give spots recommendations to the user without actually calculating what is the best spots.
  - Estimation for the price during rent-out is not actually calculated.
  - We don't actually conduct navigation; rather, we display the route as pictures.
- **Hard-coded Data**
  - The Map view is hard-coded, as well as our current location.
  - Time for reservation is hard-coded, as 8am - 10am today.
  - During rent-out, the current location is hard-coded.
- **Unimplemented features**
  - Dropped-pin is not supported when picking rent-out location
  - "Walk to final destination" after navigation to the spot is not supported
  - All features in pull-out menu, except rent-out, is not supported