Captain Park

Road Side Park Detect System

Chen xi; Pang Zhengqi; Su Zhaofan; Xu Mengru; Yang Liuqing

01

What is the problem?

Quickly locate the specific locations of the free parking spaces near the destination

How cameras find available parking spaces









Underground
Car Park

Camera

Road Side Park



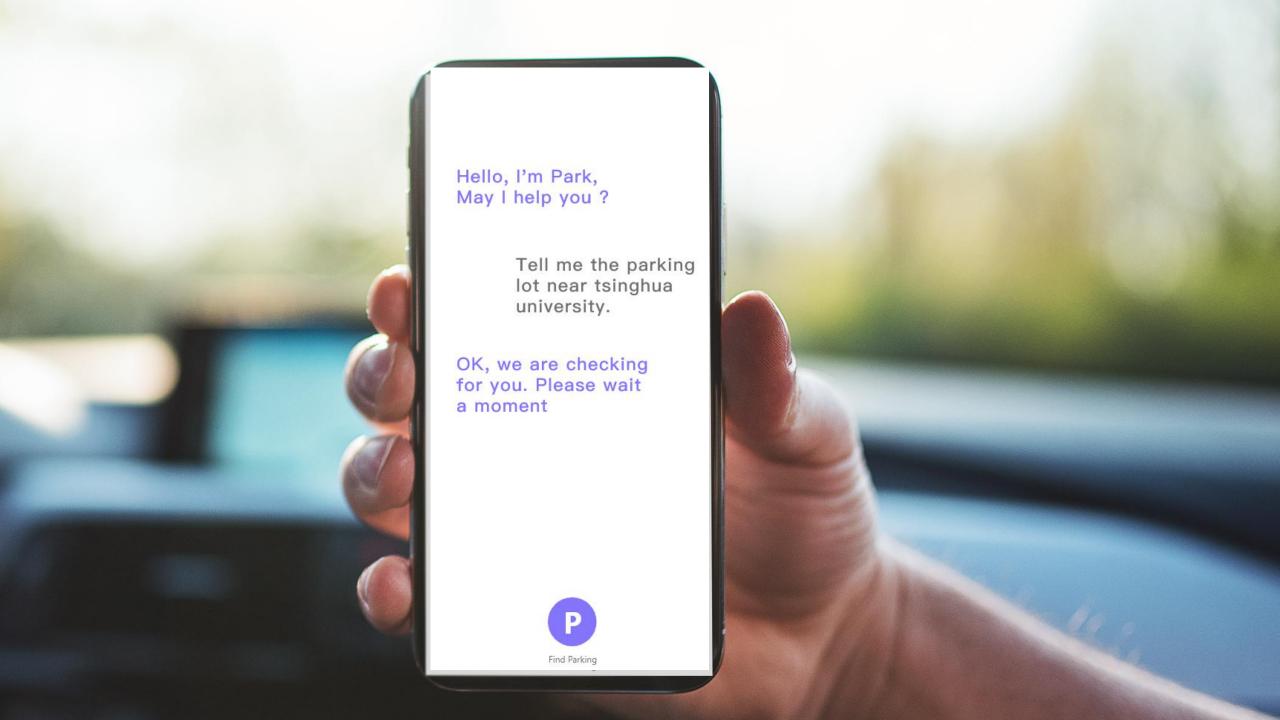


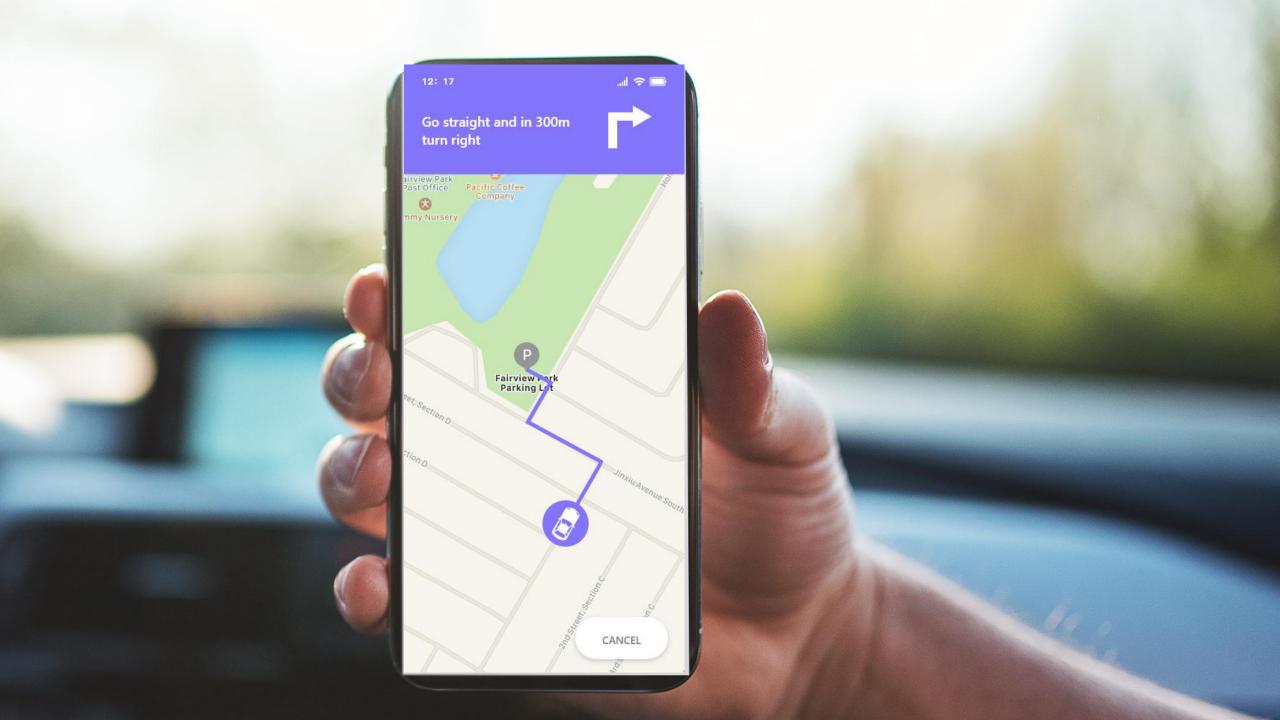
02 For car owners

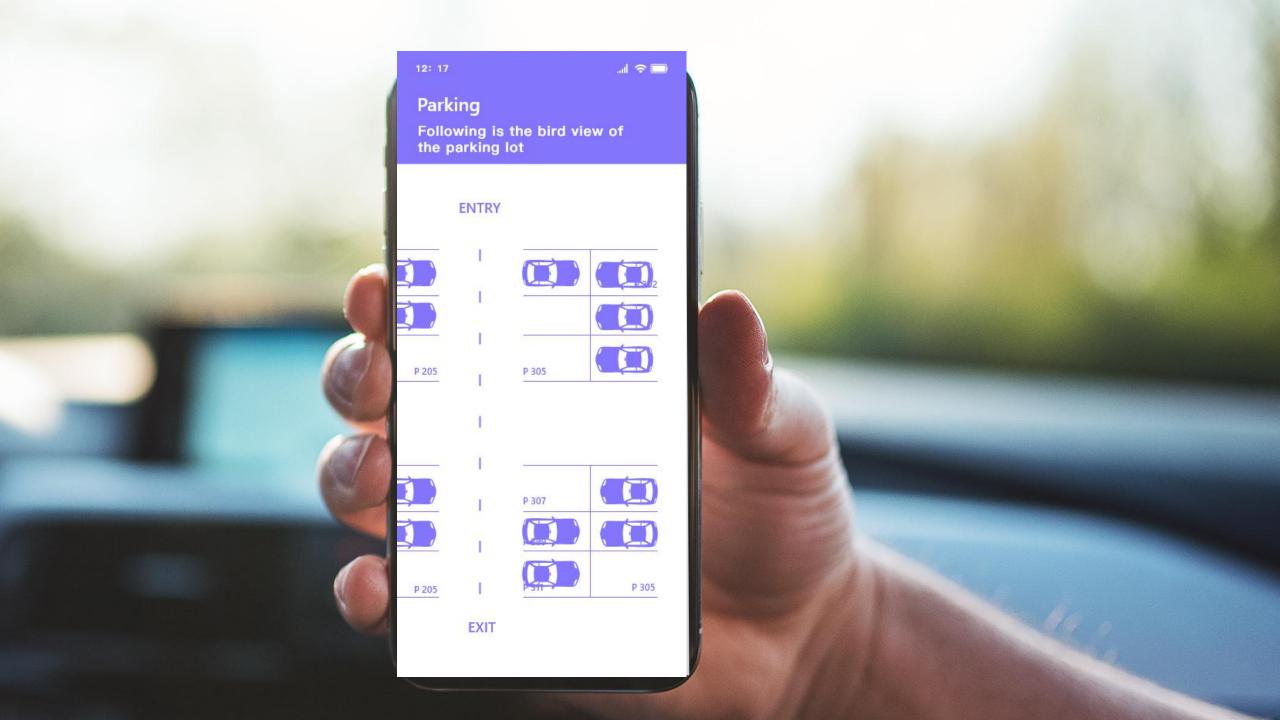










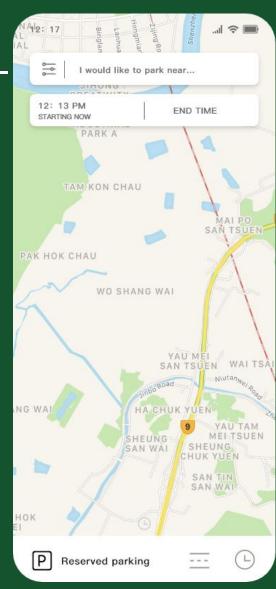


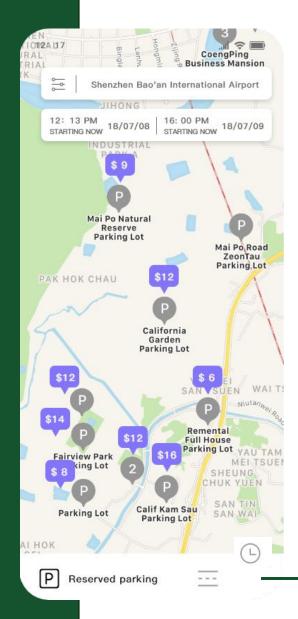
When you want to check the parking space

in advance

input destination

start time will be atuo filled





Search Result

Parking indicator with pricing. User can tap on it to view details or get directions or just follow her pass to reach there.

Reserved parking

Parking Timer

I would like to park near... 12: 13 PM STARTING NOW Wang Fu Court Shing Fat Industrial Prohibited Charge Free Edificio Kam Wa P Street parking

on street legend

Street Parking

Street Parking

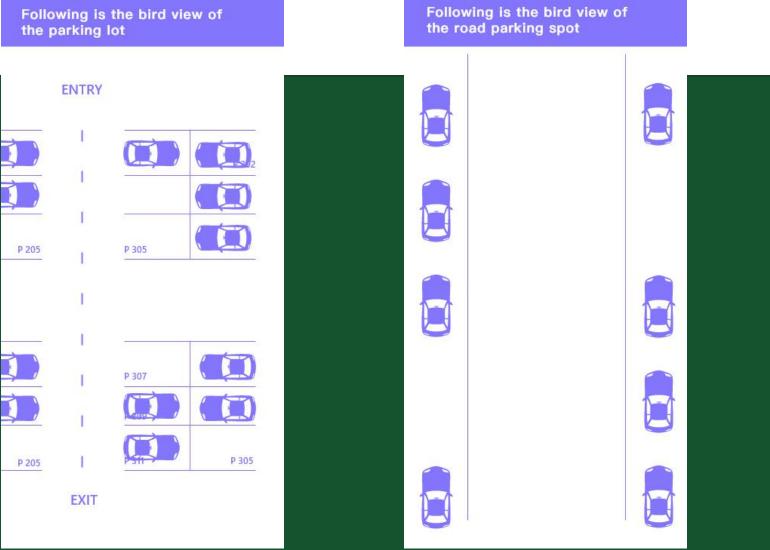
This is the most useful feature which helps the user find parking for short duration.

This highlighters will indicate meter, free or prohibited parkings in the nearby area of the destination.

I tried to keep the UI modern and simple. This was important because of the busy schedule of the user. They should be able to get the information and learn the system quickly. Entering any infoemation shouldn't be overwhelming for them as they're already frustrayed.

Highlights





Parking

...l 🗢 📟

03 For government

Monitoring

BY GOVERNMENT



For the government:

Data Sources

Real-time image data and video data

Algorithms

Decision trees, PCA, ARIMA and so on

Effects

Increase the urban management efficiency Save the human resources Reduce the traffic conjestion

Monitoring

BY GOVERNMENT



TOP 10 districts with the highest parking occupancy rate

Real-time road imags and vedios

Main streets parking spaces utilization rate

Parking spaces usage condition recording throughout the day

Prediction data

B/S Architecture

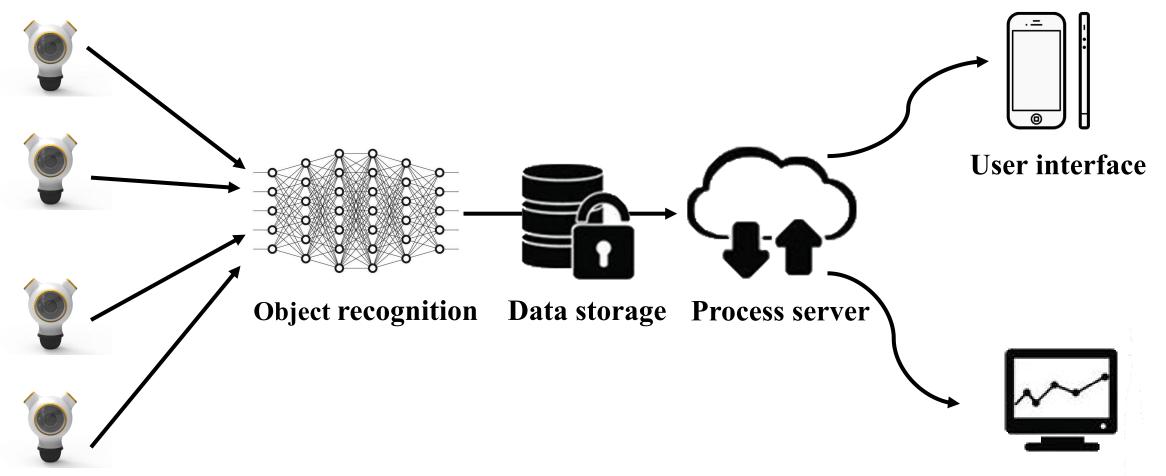
Used by governmental agents

Security and Accuracy





Framework of our system



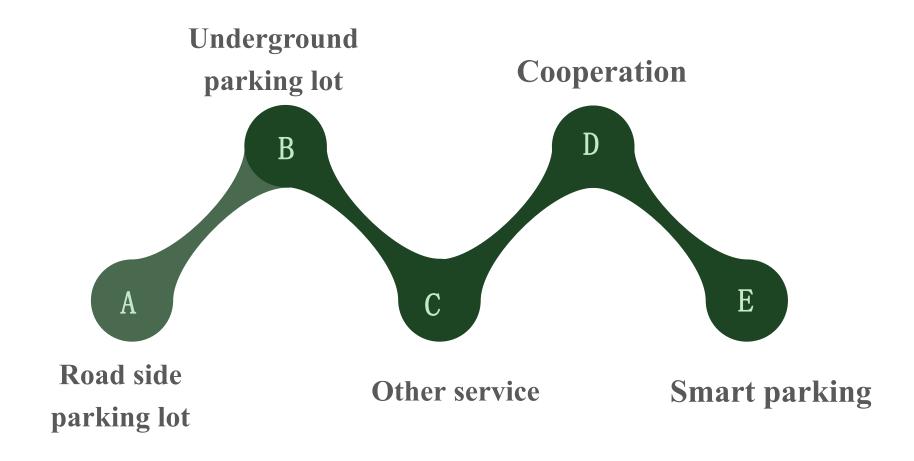
Data collection

Real-time monitor

O4 For Value-added service



Value-added service in the future



Thanks

Road Side Park Detect System

Chen xi; Pang Zhengqi; Su Zhaofan; Xu Mengru; Yang Liuqing