

Computer Engineering Program



Be There: A HKUST Ridesharing Mobile App

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Why?

The Problem

Long lines at both campus bus stops are prominent during rush hours.



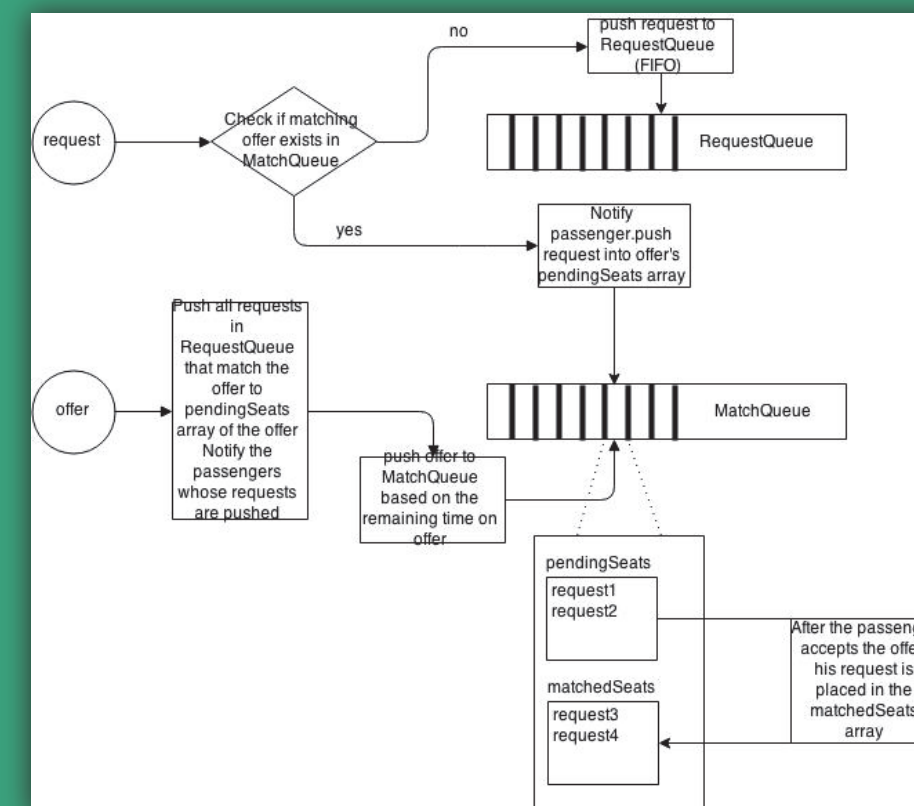
Under-utilized private cars with spare seats are leaving campus during rush hours.

The Idea

Realize the concept of ridesharing by creating mobile apps to facilitate matching between passengers waiting in line and drivers of under-utilized private cars.



How?



Driver App

Drivers can offer rides by broadcasting their intentions of when they are leaving campus and where to (Choi Hung, Hang Hau or Sai Kung).

Passenger App

Passengers can request for rides by specifying where they want to go.

Server

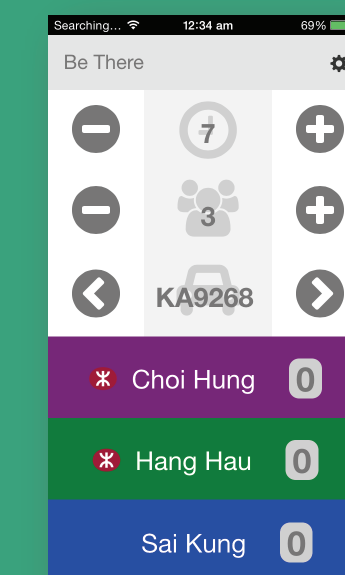
Where the magic happens. Requests and offers are stored here and special algorithms match them, then notify the corresponding passengers and drivers.

What?

Highlights

Quick select and go.

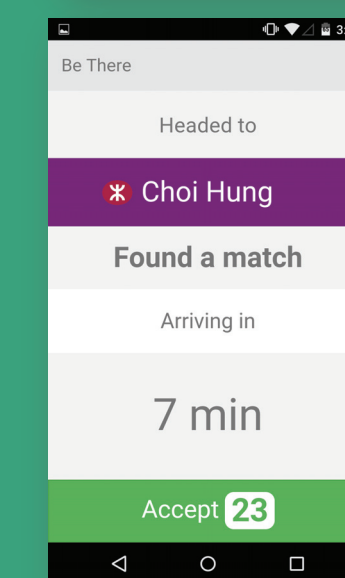
Drivers select basic settings (arrival time, available seat no., license plate no.) and choose destination to send ride offer.



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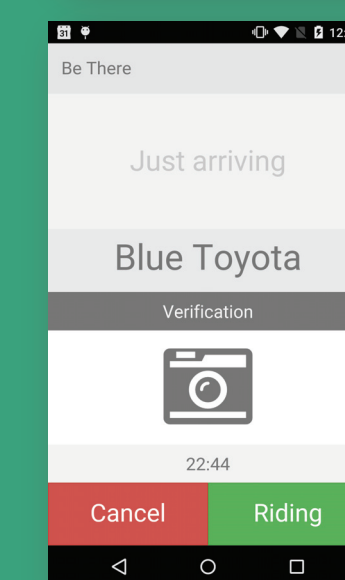
Match found. Accept.

Passengers are notified of a matched ride offer with arrival time to their request and given a choice to accept within 25 seconds.



Pick up and finish.

Passengers wait for driver pickup with car info and arrival time, verify with icon and confirm whether or not the ridesharing was successful.



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