

Taxi Availability

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Group 4



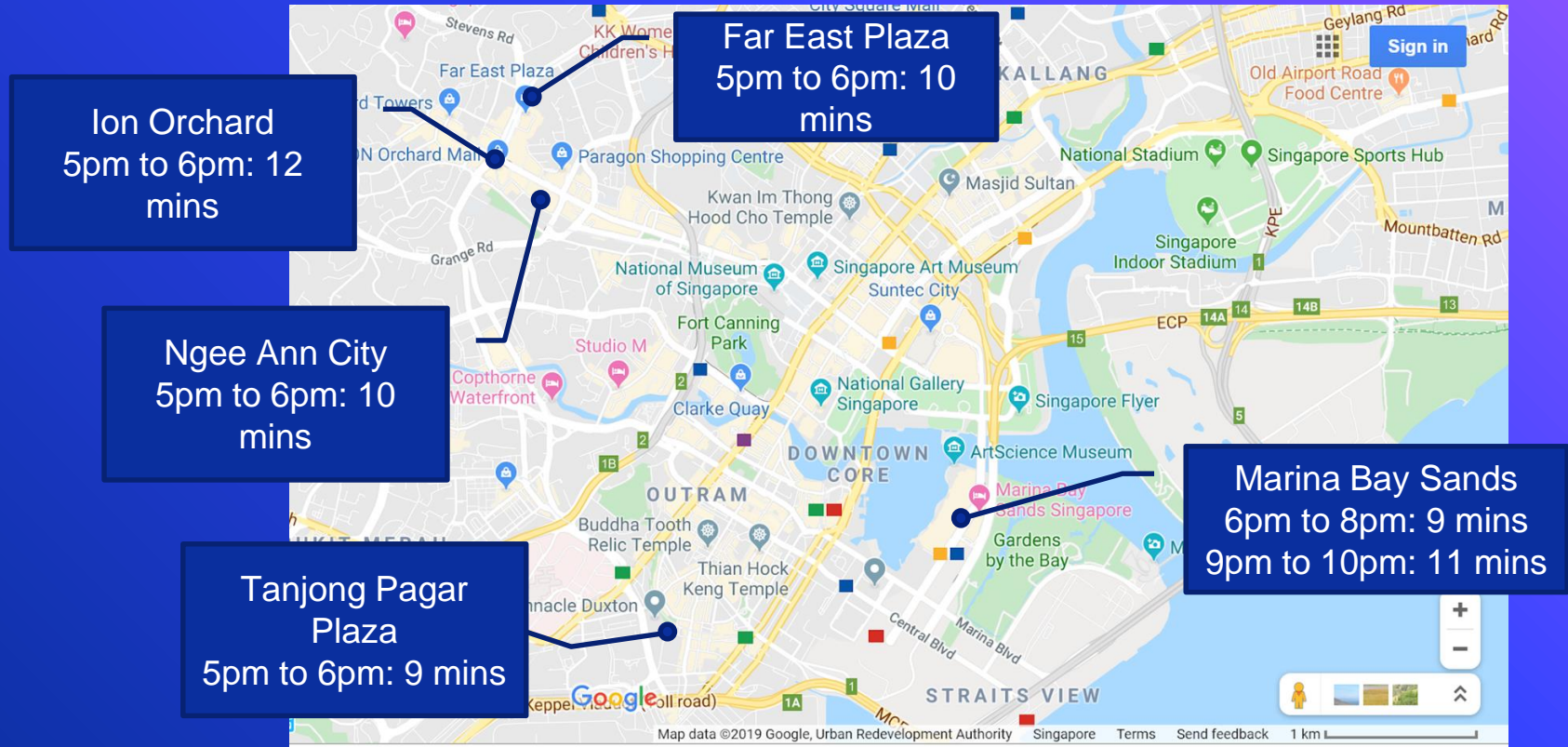
**Ever felt frustrated trying to
get a taxi?**






*Data taken in Aug 2019

Average Hourly Passenger Waiting Time



*Data taken in July 2019



“ Creating supply does not necessarily mean that you’ll be able to meet the commuters where they are and when they want it. So that could be better served through technology”

Mr Ang Hin Kee (Dec, 2016)

Executive Adviser to the National Taxi Association

⇐ Objective

Build an open-source map for



Passengers

- To share their locations so that drivers will know areas where demand is peaking in Singapore
- To cut expenditure on costs like booking fees



Drivers

- To focus on areas where there is high demand
- To disperse themselves if there is a high number of taxis in the area

Note: This is **NOT** a booking app

DEMO

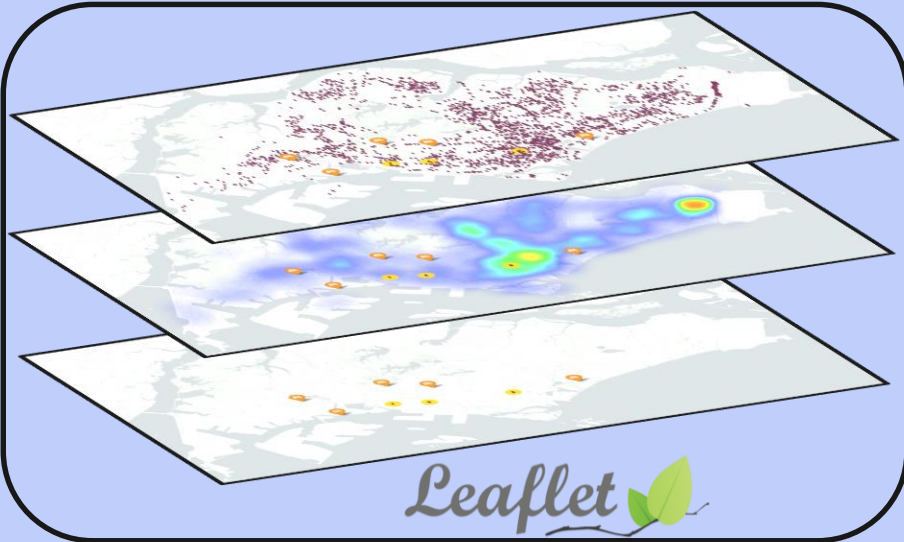


System Architecture

API

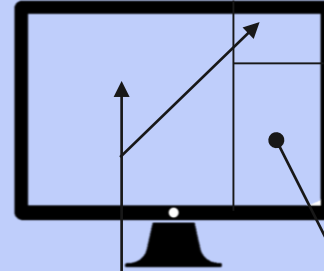


Taxi availability from LTA



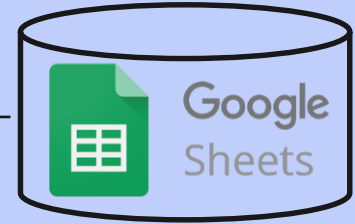
Leaflet

+ HTML/JS/CSS



Website

Database

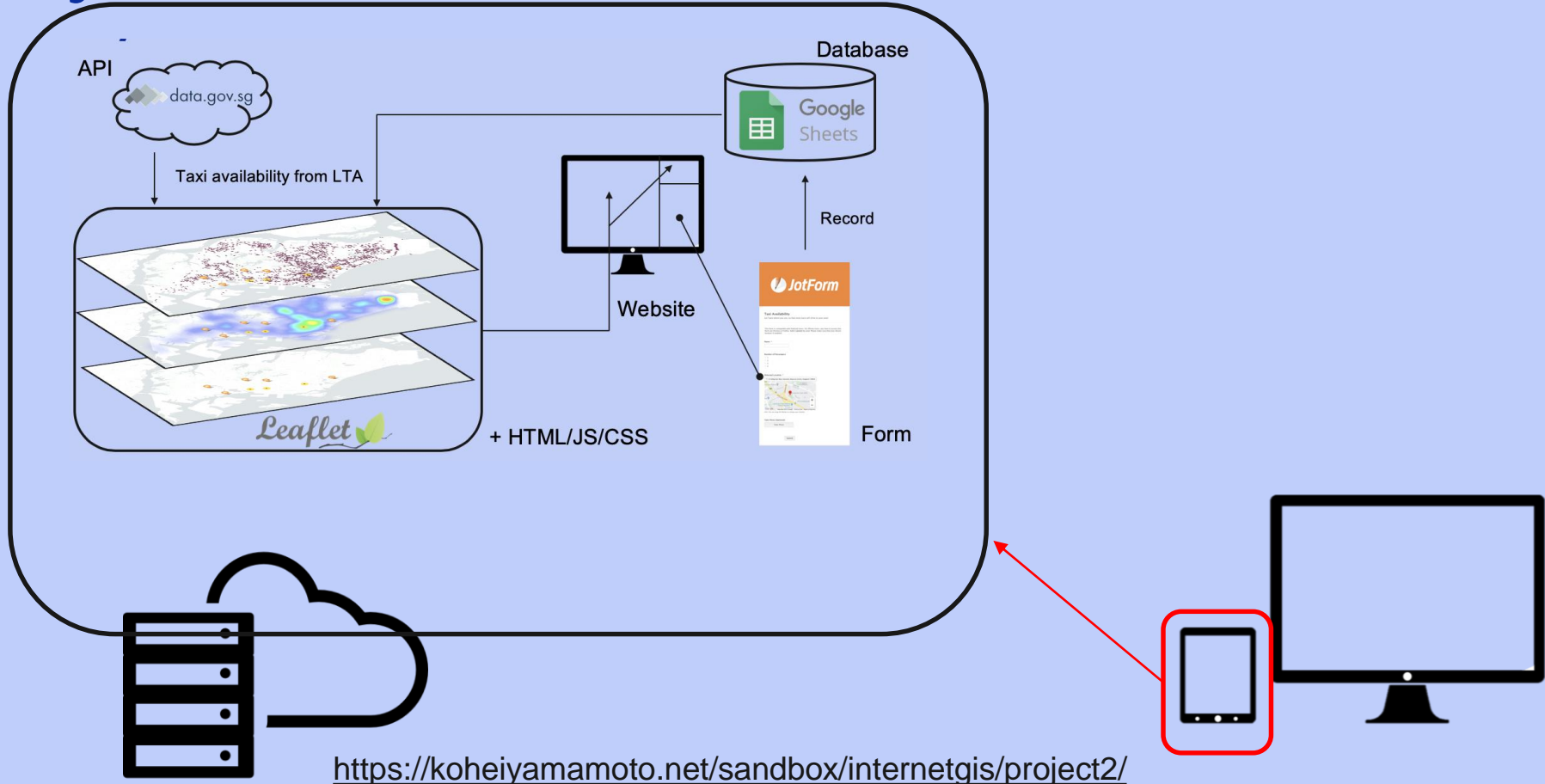


Record

A screenshot of a JotForm form titled 'Taxi Availability'. The form includes fields for 'Name', 'Number of Passengers', and 'Estimated Location' (with a map). It also has a 'Taxi Photo (Optional)' field and a 'Submit' button.

Form

System Architecture





Future applications

- 2 different interface for drivers and passengers
- An app for drivers to view the demand of passengers + regular hotspots
- A dashboard for the passengers showing how taxi availability varies throughout the day/ week → passengers can plan ahead of time
- An app for passengers to check the estimated time to get a taxi based on proximity to available taxis
- In the event that the user submit the form wrongly, they would have the option to edit it

Thank you!

