



URZoned

Cab-hailing in the times of CORONA



The Impact

Uber Won't Meet Full-Year Targets Due to COVID-19 Disruptions

The ride-hailing company said it's taking a writedown of as much as \$2.2 billion to reflect the impact the pandemic has had on its

Uber withdraws 2020 guidance

Kirsten Korosec

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4:46 am IST • April 17, 2020

Covid-19 impact: Indian consumers may move away from ride-hailing services

3 min read · Updated: 01 Apr 2020, 01:15 PM IST
Malyaban Ghosh, Amit Pandey

- In the long run, purchases of utility vehicles may see a
- Ride-hailing services sur their services in some r

A one-two gut-punch: COVID-19 puts B.C. taxi industry 'on the ropes'

Some companies shut down, others have drastically reduced their fleets as coronavirus disrupts business

Jon Hernandez · CBC News · Posted: Apr 03, 2020 7:19 PM PT | Last Updated: April 4

GM Has Shut Down Car-Sharing Uber Competitor Maven Amid COVID-19

GM just shut down its car-sharing Uber competitor, called Maven, ostensibly of lower traffic from social distancing amid COVID-19.



Keeping the safety of drivers in mind, and in line with what will work with partner hospitals to provide drivers with proper equipment, including hand sanitisers, gloves, disinfectant spray, etc.

Covid-19: Uber launches 24/7 service to transport frontline healthcare workers

Photo: Reuters

Updated: 31 Mar 2020, 11:10 PM IST

Covid-19: Ola deploys crowd-control tech in Punjab mandis

1 min read. Updated: 17 Apr 2020, 03:44 PM IST

- News reports from Delhi and Rajasthan show that authorities have been struggling to ensure social distancing at wholesale markets and mandis
- Ola CONNECTS functions as a crowd control system, helping local

200 Uber-Ola cabs to serve as Ambulances for non-emergency cases

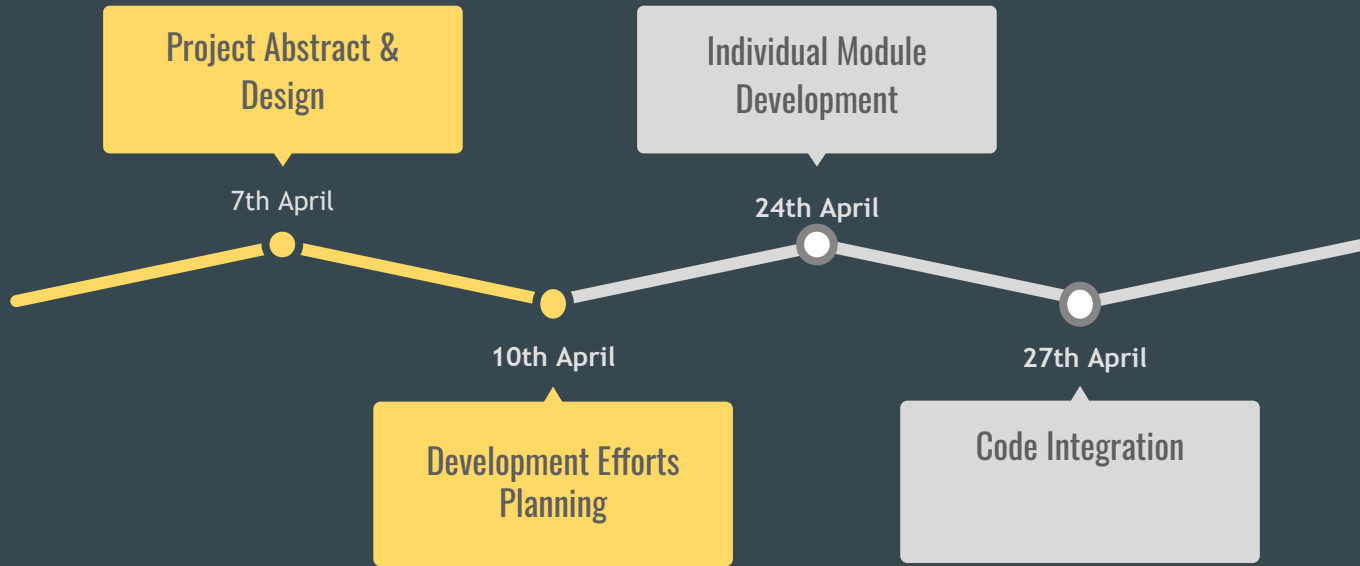
Akhil Kadidal, DHNS, Bengaluru, APR 07 2020, 20:46 IST | UPDATED: APR 07 2020, 20:46 IST

Covid-19: Uber to offer cabs for essential services

Alternate Businesses



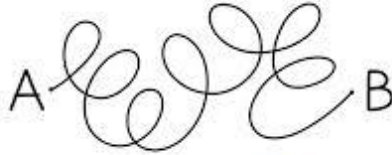
Principles and Methodologies



Project Planning

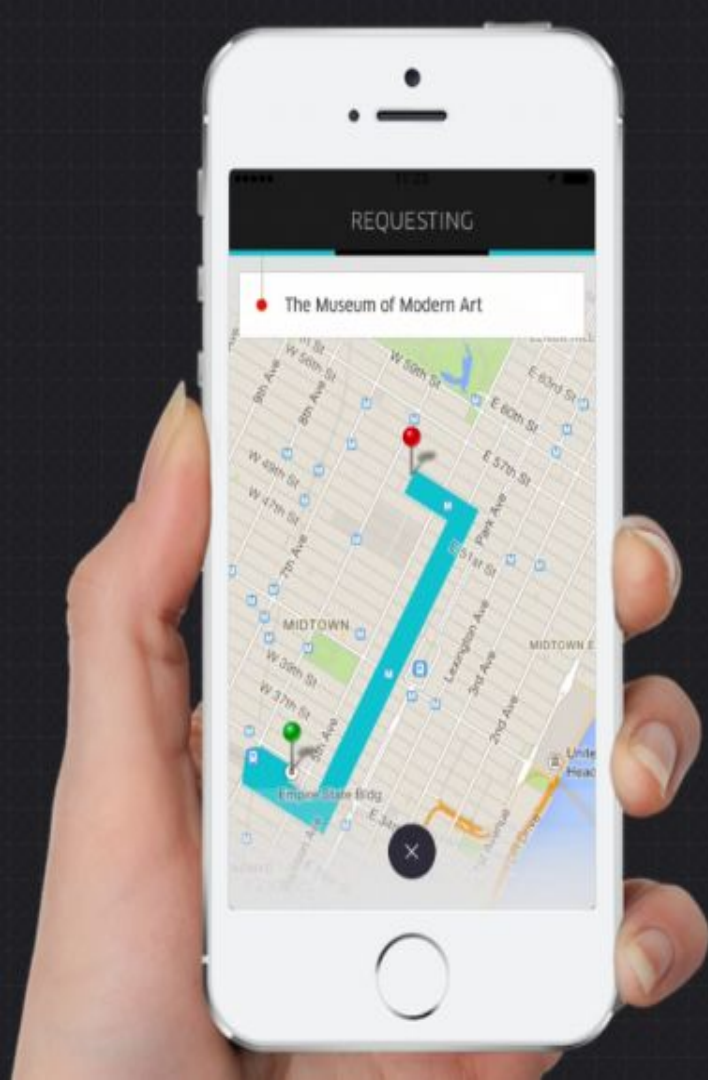


Time + Effort



Lessons Learnt





Client Architecture

1. Flutter App
2. Used BLoC pattern
3. Cross Platform
4. Mostly Views



1. Flask App
 2. Taxi Availability
 3. Allocation of Drivers
 4. Zone Allocation
-

Technology Stack



Flutter



Dart



iOS



python™



Flask

COVID 19

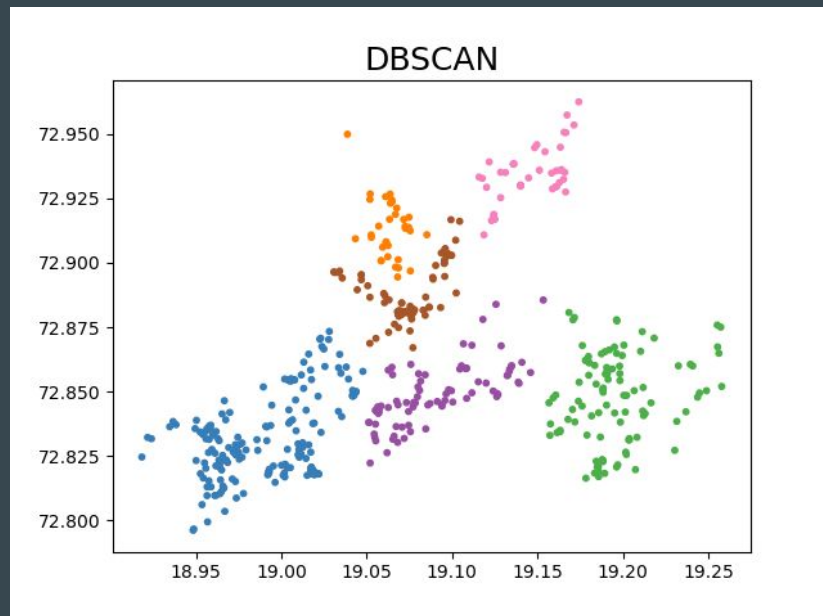
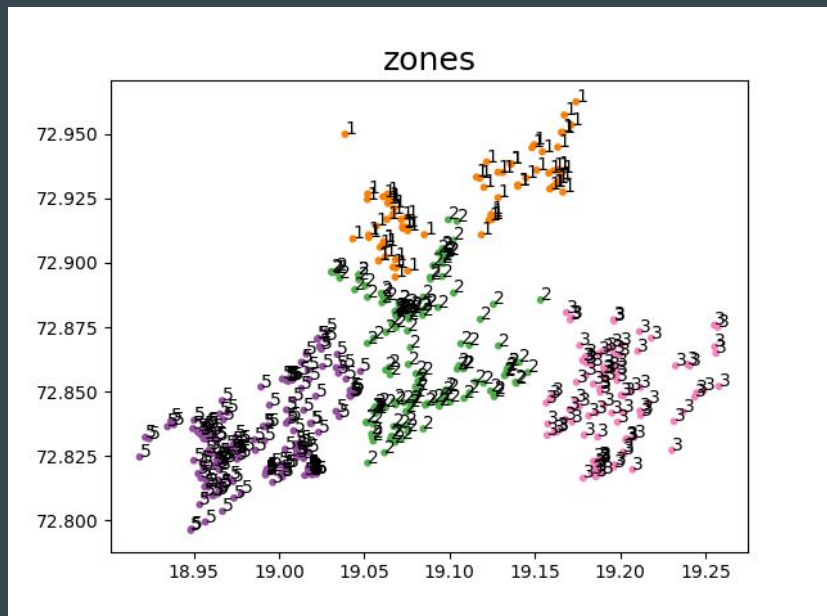
Severity Zones



Machine Learning

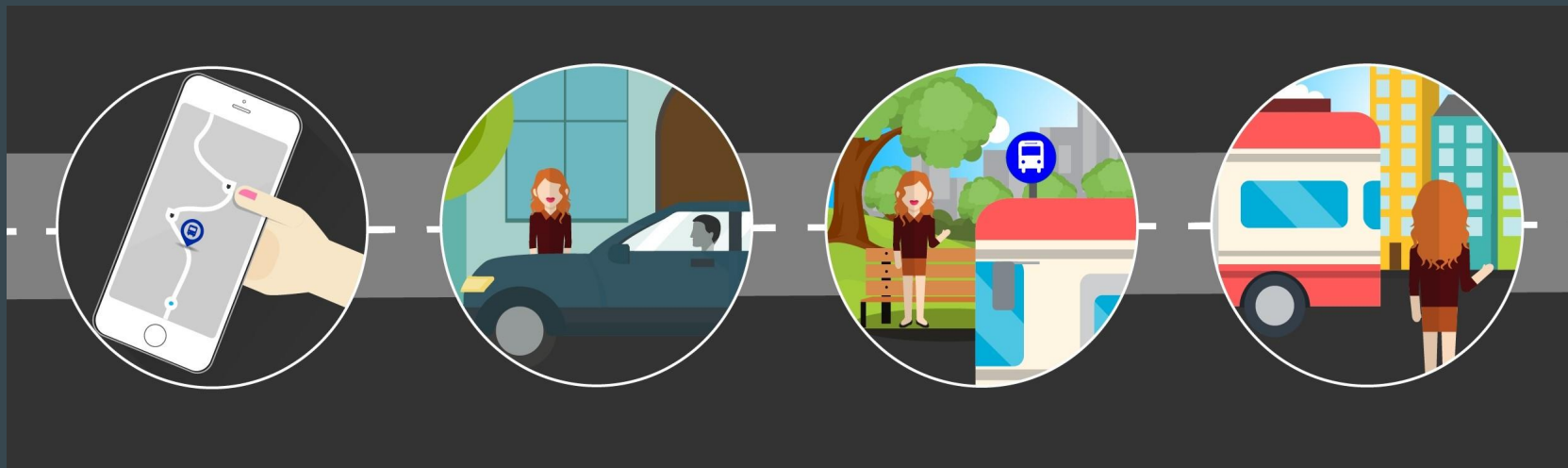
Finding Severity Zones

1. Why
 - a. Ward level cases
 - b. Population based zones
 - c. Need severity based zones
 2. How
 - a. Density based clustering
 - i. DBSCAN
 - b. Zoning based on cases in clusters
-



DBSCAN Clusters with Zones

Demo



- Integration with Google Maps
 - Alternate routes
- Forecasting - integration with Calendar
 - Intimate riders about threat exposure for next trips
- Predicting exposure to outbreak - integration with Calendar and GPS
 - GPS history to infer exposure
- Apprise Drivers for possible exposure
 - Adherence to guidelines
- Applications in other domain
 - Grocery
 - Health
 - Public Transport
 - Food Delivery

Future Work

what

where

who



how

when

why

