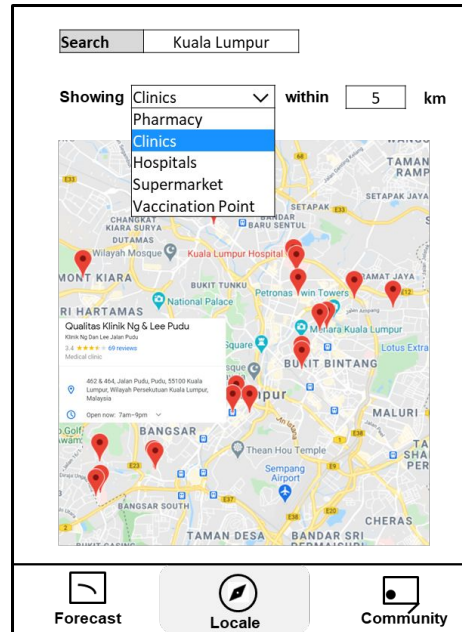
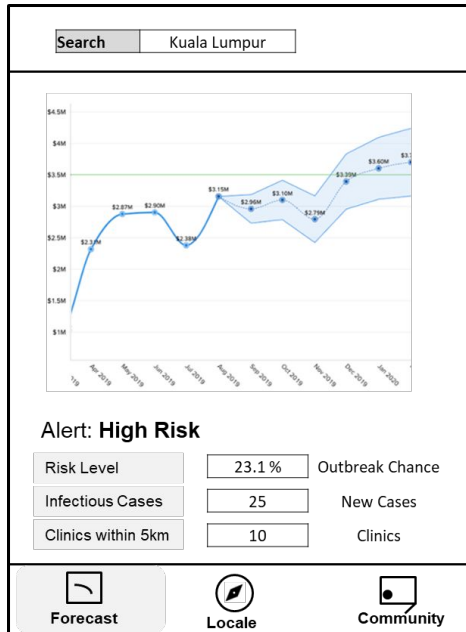


Localized Infectious Disease Alerting System (LIDAS)



Search Kuala Lumpur

News Feed Community

Group Chat 1
Food Availability

Group Chat 2
Vaccination

Group Chat 3
CNY ideas

Group Chat 4
...

Participant Name 1

Covid-19 pandemic has forced us to start rethinking about our food systems. We have seen in the last few weeks, early in the pandemic, agriculture was not seen as an essential service

Participant Name 2

True. Recently there are some shortage of food in the community. A lot of people are hoarding food.

Participant Name 3

We should care for each other. I would like to be a volunteer to help with the food distribution. Anyone knows how I can participate?

Participant Name 4

You can register at xxx.org...

Forecast Locale Community

Team: SABJ

Challenge: Health Tech

Meet Our Team Member



Stacy

Data scientist

Singapore National Eye Center

Amber

Data scientist

OPRI Singapore

Bowen

Data scientist

LipidALL

Jason

Consultant

Zuellig Pharma

Inspiration

Infectious disease outbreak greatly impacts population health.
People need to know where to seek help.

With **Localized Infectious Disease Alerting System (LIDAS)**, users will be able to get **customized** clinical and essential need information based on his or her **locale** in **South-East Asia** , get **alerts** on upcoming increases in case of infectious disease and utilize the app to **prepare** themselves.

LIDAS

Raise Awareness

- *LIDAS predicts the likelihood of outbreak, and users get alerts on disease outbreak risk based on his/her location.*
- *LIDAS helps to raise awareness of current disease condition.*

01

Customize Service

- *LIDAS can provide users with personalized healthcare advice,*
- *LIDAS acts as a platform to consolidate localized information, from nearby vaccination clinic, pharmacy stores, medical centers to daily essentials like super-markets and food-courts.*

02

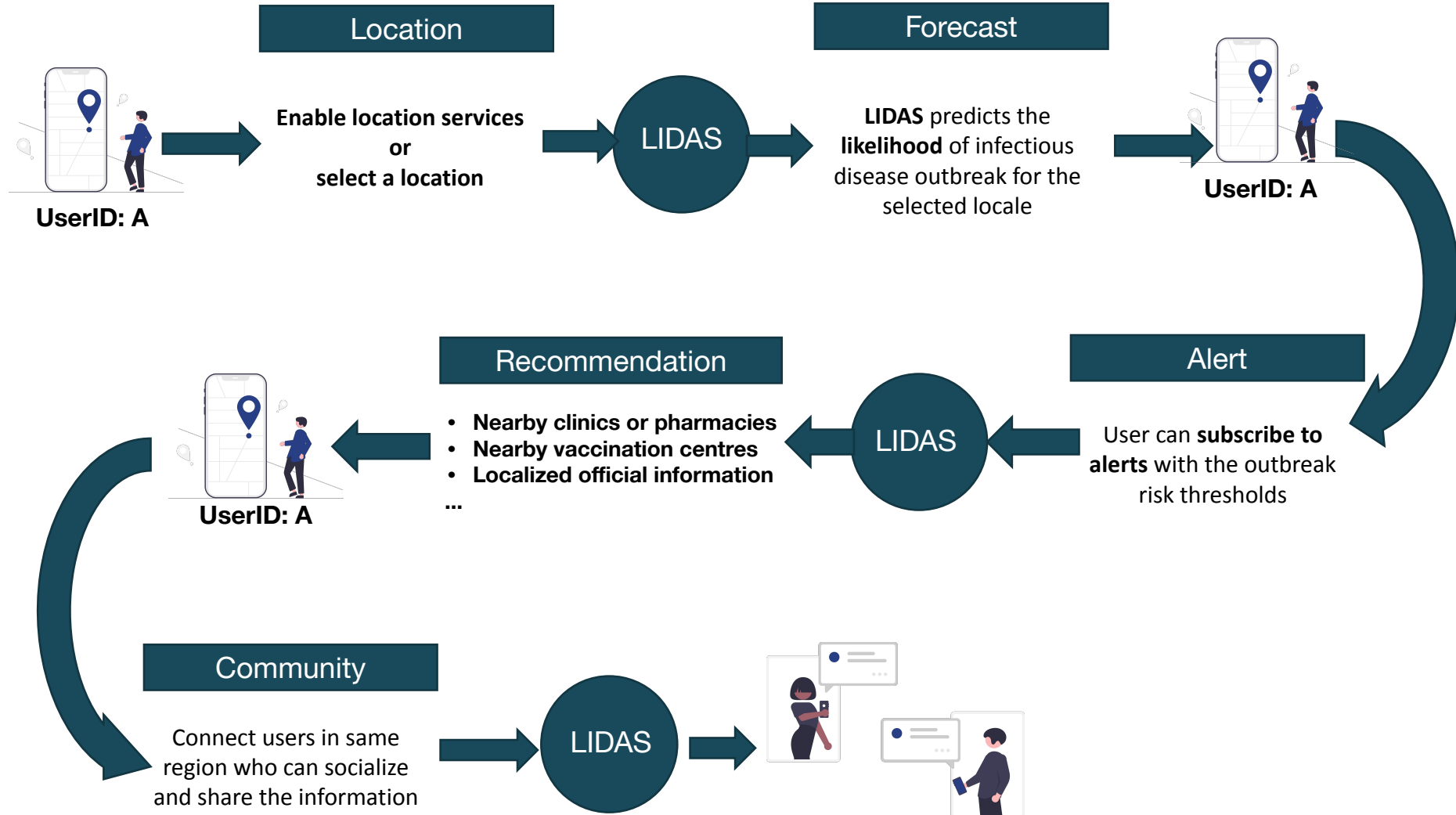
Build Connection

- *LIDAS helps to build social connection among community.*
- *LIDAS links users with registered professionals 24/7.*

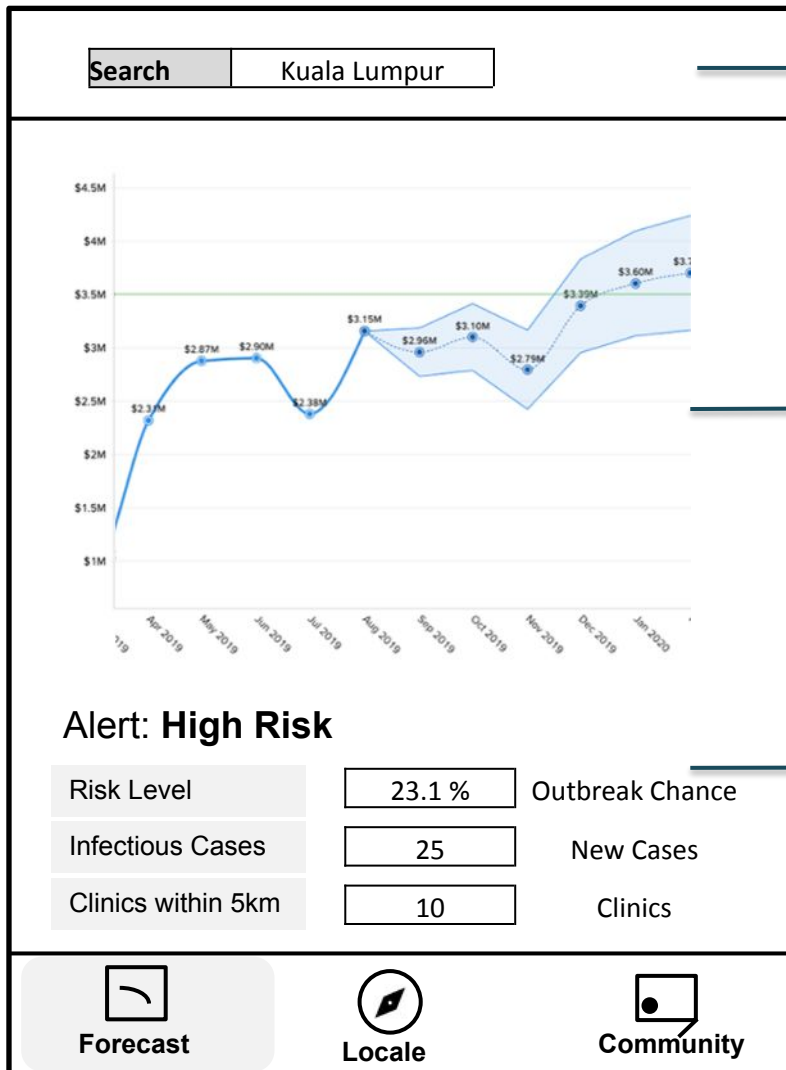
03

LIDAS Features

Forecasting + Geographic info service + Social Connection



LIDAS – Forecast



User select a location they are interested.

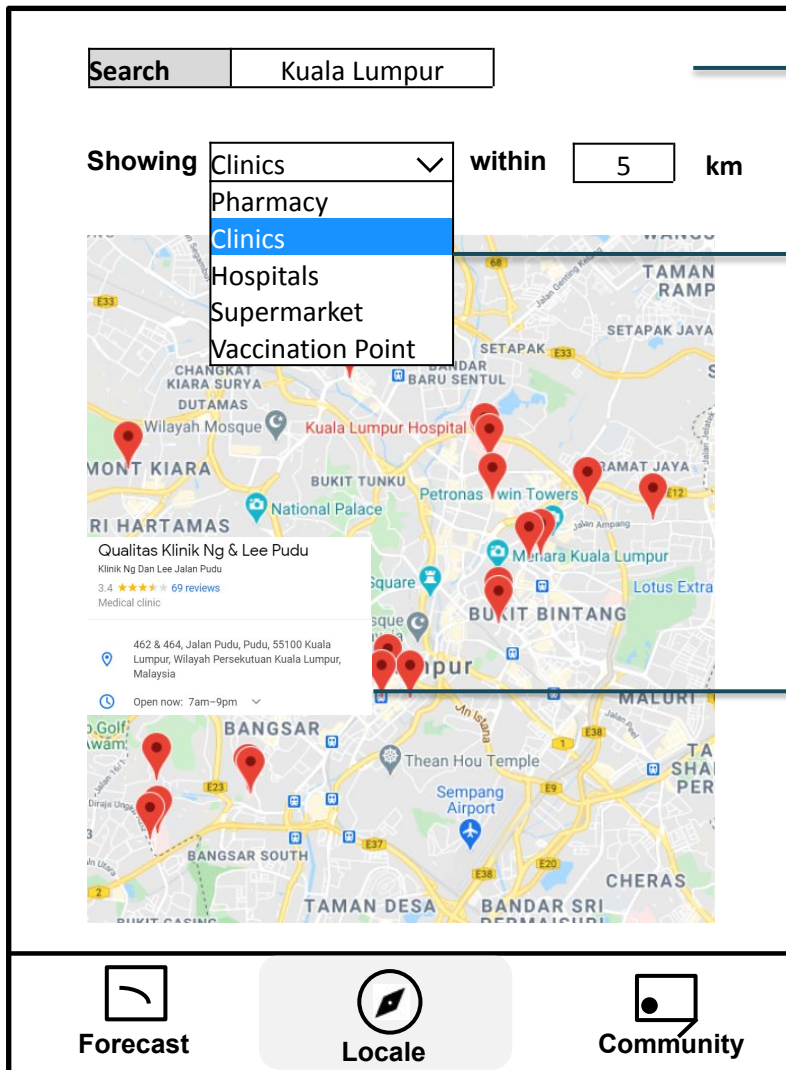
LIDAS predicts the likelihood of infectious disease outbreak for the selected locale.

Based on the prediction, LIDAS provides a level of risk alert.

LIDAS also provides a few key metrics related to the infectious disease. It can track the current progress.

LIDAS has three main features: forecast , customer service based on geo location, and community.

LIDAS – Geolocation Service

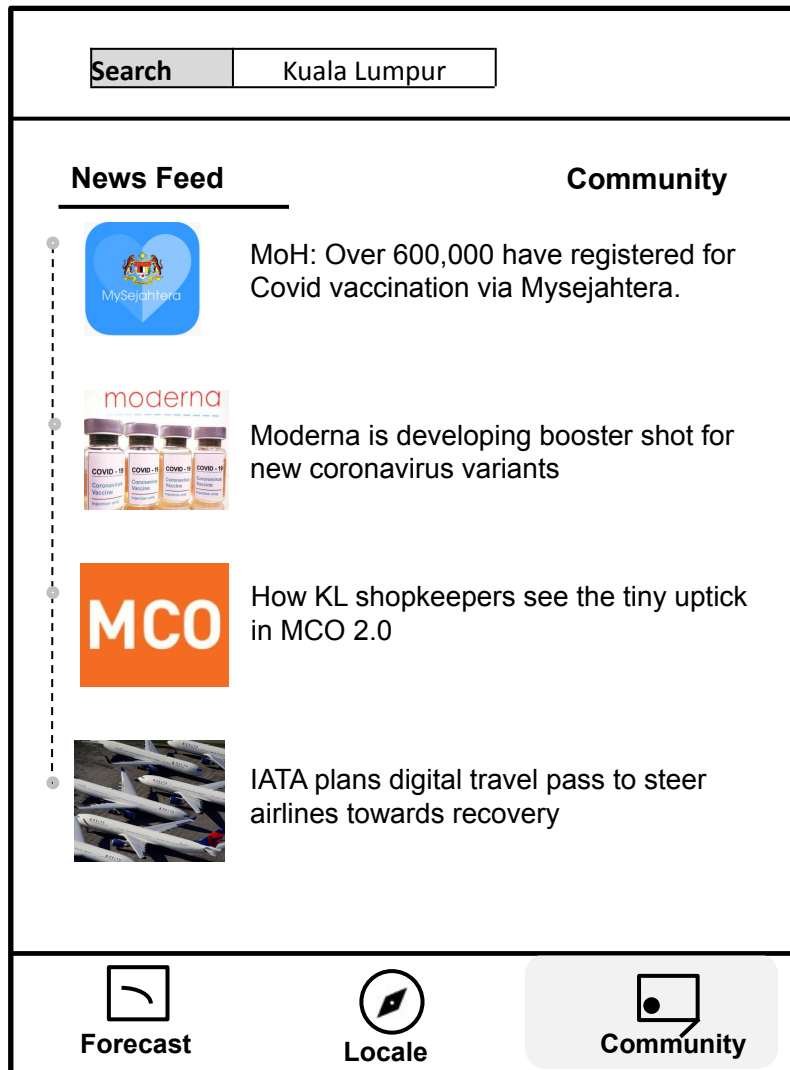


Users select a location they are interested.

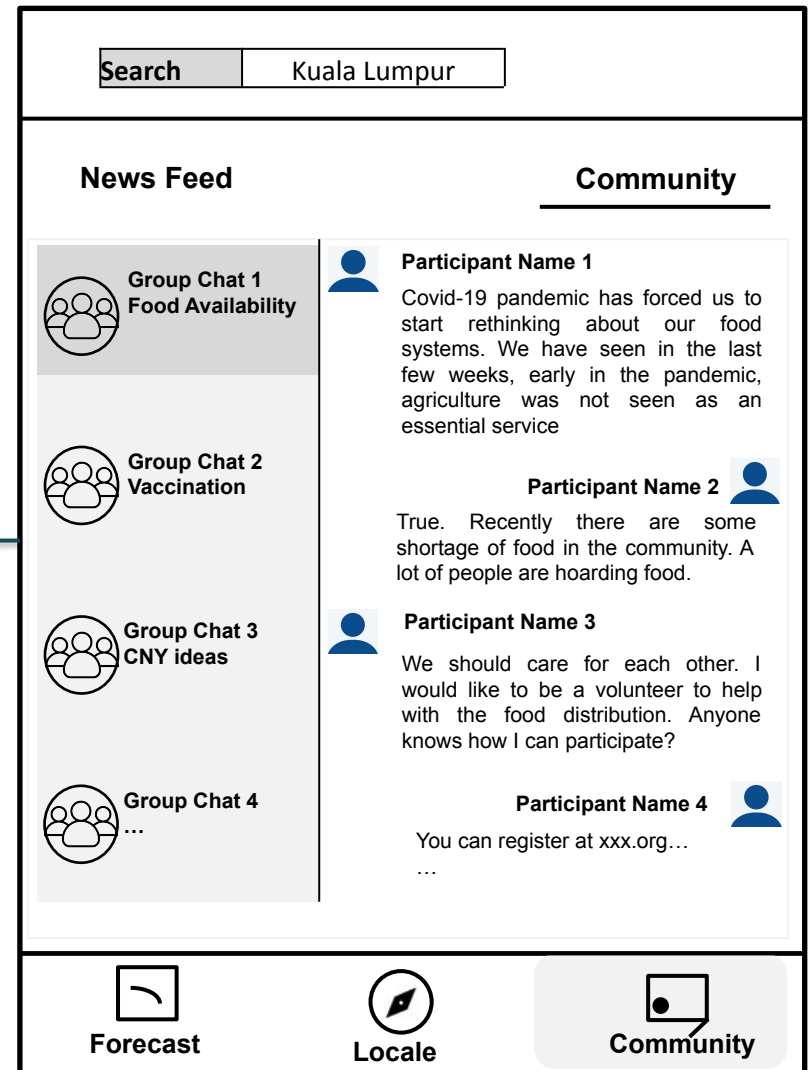
Users can search local information defined by the radius, such as nearby clinics or pharmacies, nearby vaccination centers etc.

Users can click and get the information of the selected clinics or pharmacies.

LIDAS – Social Connection



Users can receive the local news related to the infectious disease.



Users can participate in community discussion. They can allocate resources, share information, and discuss policies etc.

Methodology

Tailor-made solutions for individual user by integrated information

Inputs

- > Current disease spread in the geographical regions
- > Government intervention policies
- > Customer locale social determinant information, such as age, education, community and others
- > Social media mentions at locations, such as Twitter, Instagram
- > Bing/Google keyword search trend
- > Location of clinics, supermarkets, related government agencies

Factors

WHERE

- *User's location (city/state/province)*
- *User's locale's social determinants*

WHO

- *User's social network*
- *User's engagement*
- *User's interest/concerns*
- *User's symptoms*

WHAT

- *What's the trend of search terms?*
- *What's the current disease situation?*
- *What's the risk/likelihood of disease outbreak in selected time window?*

Target

Tailor-made recommendations for *each* individual user based on locale

Forecast page

1. When a potential outbreak is predicted, send user a reminder.
2. If user sets an alert, once reached the threshold, push a message to the users.

Geographic info service Page

1. Interactive nearby clinics/pharmacy/medical centers.
2. Display local government official information.

Community Page

1. Users can go to the community page to establish social connection with users in same region.
2. Users can join the community discussion.
3. Chat box link users to the right community.

Azure Centric Development

