

WANDER-FO

PROJECT PROPOSAL

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1. Scope of Problem

During a pandemic, a common problem that people faced was the closure of several businesses, be it F&B and other services. And the general public may be unaware of the closure of the shops / services that are affected. This causes inconvenience to the general public since they have to physically visit the shops / services or retrieve information from diverse platforms that may not be reliable to know if the shop / service is opened. Business owners may also be unaware of the evolving pandemic situation and have to contact the relevant authorities for further clarifications on the closure of their business. This takes time and increases the workload on the relevant authorities.

It also allows the government to inform the general public/ businesses on the categories of shops that are allowed to be open/ close.

2. Proposed Solution

A mobile application solution - Wanderfo, which facilitates the flow of information from business owners to the general public. And another supplementary WanderfoGOVT mobile application for government agencies to easily pass information down to business owners.

Both applications use Amazon Web Services (AWS) for information storing and accessing.

3. Target Audience(s)

Government

Wanderfo will provide a platform that will enable the government to inform the categories/businesses on whether they are allowed to be open/close for business. This enables information to be passed on more easily between the government and the businesses.

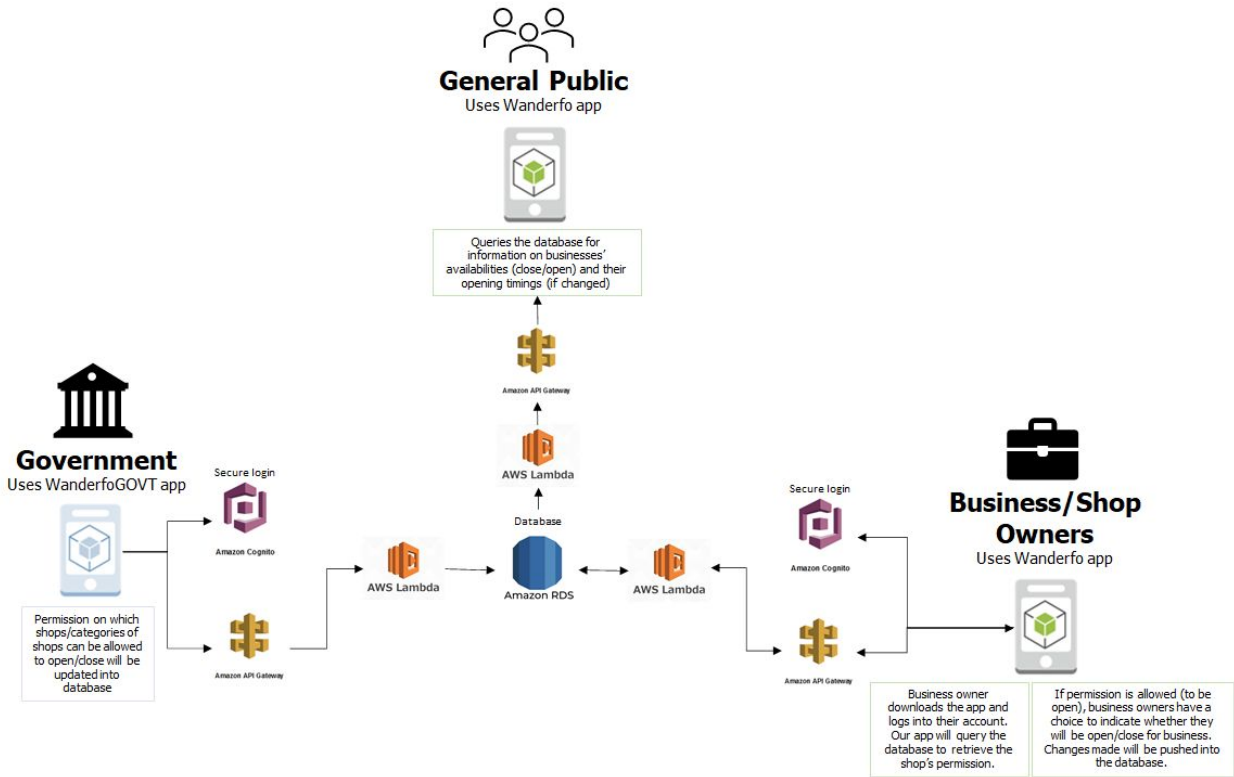
Businesses

Our app will pass on information from the government to inform these businesses on whether they are given the permission to be open. If they are allowed to be open for business, they can list the availability of their products under their business page in our app. This allows the general public to be aware about the status of their business.

General Public

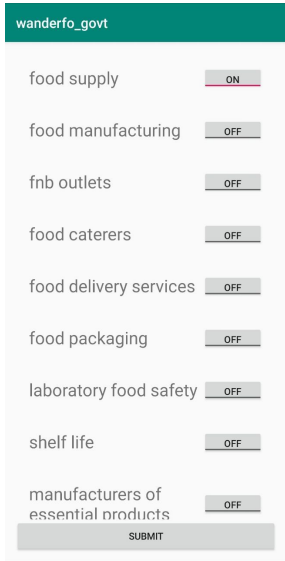
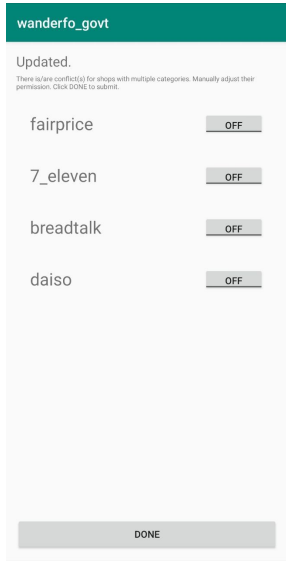
With various business listings on our app, the general public has the ability to attain information on the status of various businesses easily. This allows for the minimisation of unawareness, unsuccessful trips as well as unnecessary movements during a pandemic.

4. Flow of Information



5. WanderfoGOVT App Interface

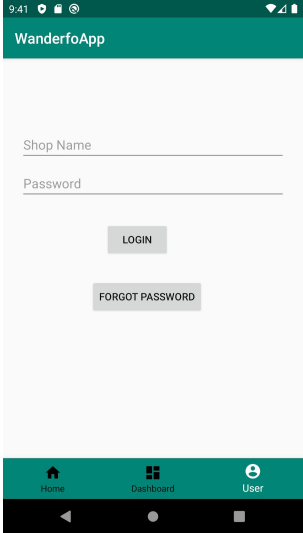
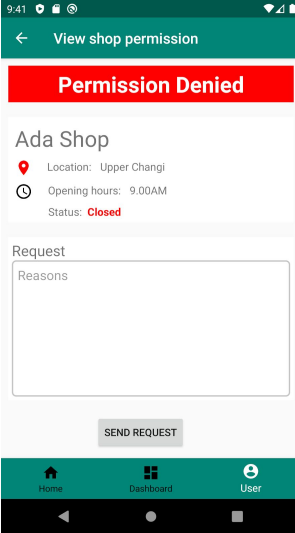
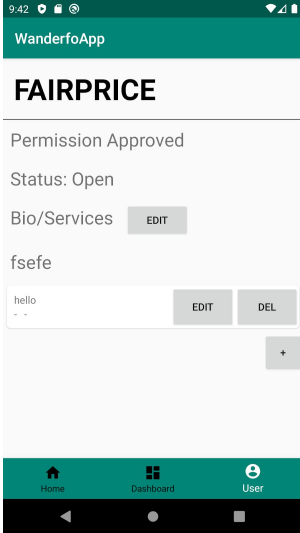
Brief flow of WanderfoGOVT app:

Government	
	
<ol style="list-style-type: none">1. Authorities are able to indicate if the shops under the category are allowed to be open or close by toggling the buttons.2. Click SUBMIT.	<ol style="list-style-type: none">3. Shops under a single category will have their permissions set accordingly.4. Shops under multiple categories (with conflicting permission settings) will be categorised under gray shops and are listed (as shown above) for manual toggling.5. Click DONE.

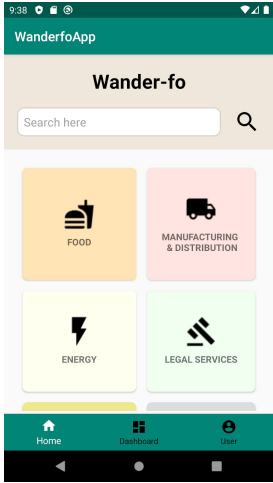
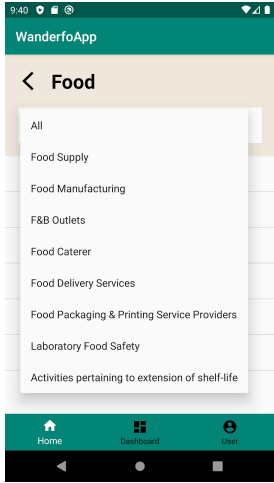
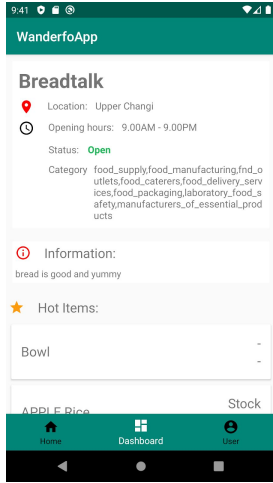
Find out more in this video: <https://bit.ly/wanderfoGOVTvideo>

6. Wanderfo App Interface

Brief flow of Wanderfo app:

Businesses		
		
<p>1. Shop owners will have to log in using their personalized username and password provided by the government.</p>	<p>2. If the businesses are not given the permission to open, they will not be able to edit their page. However, they are able to send in a request to open their business with a valid reason.</p>	<p>3. Else, they will be allowed to indicate their status (open/close), bio and shop listings (availability of their products).</p>

General Public

		
<p>1. Users can navigate to the various business categories listed on the <i>Home</i> page of our app. Users can also search for shops directly from the search bar.</p>	<p>2. Upon clicking onto one of the categories, they can narrow down to choose the sub-categories which will list the various businesses available under those categories.</p>	<p>3. After selecting one of the businesses, information about the business such as their status(open/close), category, bio and shop listings will be shown.</p>

Find out more in this video: <https://bit.ly/wanderfovideo>

7. Scalability

WanderfoGOVT:

Government:

- Implementation of login authentication
- Better categorisation of the shops, making it easier for the government to indicate which shops are to be open/close

For example, breaking shops down into categories and sub-categories (eg, category: Food, Sub-categories: F&B, groceries etc)

- Have a page listing all shops and their current permission status

Wanderfo:

General Public:

- General public can sign into the app to provide reviews/rate the shop on the shop's page
 - Real-time update from reliable users on the shop items e.g. "chicken rice is currently not available"
 - Shop owners can rate the general public to represent the reliability of their comments
- Personalise viewing experience, based on their previous viewing (Machine Learning).
- Ability to indicate favourite shops for the convenience of the users

Businesses:

- Implementation of login authentication
- Include Google map to locate the shop
- Able to send request to government to open shop if their permission is denied

Note

This idea was conceived during DSTA Code_Exp 2020. We would like to thank DSTA for their mentorship.