

# ANTIDOSE

## WHY?

- BC is currently in an overdose crisis. There were 129 suspected drug overdose deaths in May 2017. [1]
- Many people have been trained in first aid, or carry naloxone kits. Over 20,000 kits have been given out in BC in 2017 so far. (Naloxone is used to treat a opioid overdose) [2]
- We want to use technology to help people receive first aid as fast as possible. Someone with a naloxone kit may be closer to an incident than the police are.

[1] BC Centre for Disease Control (2017). BC Take Home Naloxone Program. [online] Available at: [http://towardtheheart.com/assets/uploads/THN\\_program\\_stats\\_slide\\_2017\\_07\\_04.pdf](http://towardtheheart.com/assets/uploads/THN_program_stats_slide_2017_07_04.pdf) [Accessed 23 Jul. 2017].  
[2] BC Coroners Service (2017). Illicit Drug Overdose Deaths in BC. [online] British Columbia. Available at: <http://www2.gov.bc.ca/assets/gov/public-safety-and-emergency-services/death-investigation/statistical/illicit-drug.pdf> [Accessed 23 Jul. 2017].

## WHO?

### REQUESTERS

These users will press the Alert Button when an overdose occurs

They can be spotters, drug users, or bystanders in the emergency

We wanted the process to be easy for requesters, so no registration is required

### RESPONDERS

These users will be naloxone kit carriers, or have some first-aid knowledge

They will sign up to receive notification when an overdose emergency happens close to their location

They will be given direction to the emergency location if they are available to go

## WHAT?

Some of the tech of AntiDose:

<b>Android</b>	<b>Version 4.03+</b>
<b>Server</b>	<b>GoLang</b>
<b>Database</b>	<b>PostgreSQL</b>
<b>Location</b>	<b>PostGIS</b>
<b>Map UI</b>	<b>Mapbox</b>
<b>Hosting</b>	<b>Heroku</b>

## FEATURES

Other than the main flow, AntiDose has some extra features:

- Registration:** text authentication, no need to remember a username and password
- Responder Status:** set your status to inactive if you will be unable to respond to requests for a while
- Auto Text Emergency Service:** BC does not yet have a text number for contacting 911, but our system is set up to simulate texting when a request is made.
- In App Info:** Life saving information on overdoses can be reached from any page in the application
- Data Logging:** Each incidents time and location, as well as the requestors and responders are logged for security purposes.

## HOW DOES IT WORK?

1.

- A requestor presses the Alert Button.
- The system finds the closed responders based on location polling data every 30 minutes.
- Responders are sent a notification which updates their location and ensure they are close enough to respond.

2.

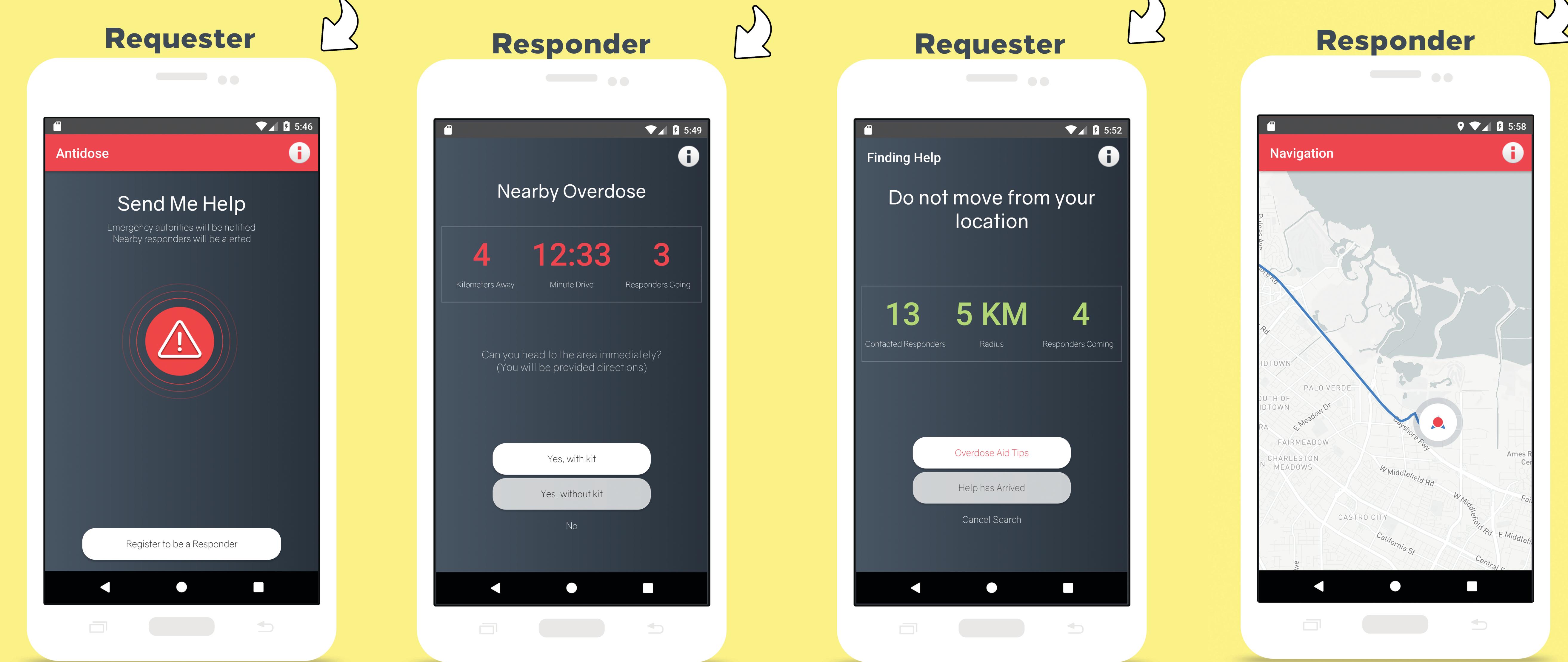
- When the responder opens the notification they are shown how far away the overdose is in kilometers and minutes, and how many other responders are going.
- They can choose to respond that they are going or not, and with a naloxone kit or not.
- This information helps the system to decide if it should query again for more responders.

3.

- The requestor is shown a screen with information on how many responders are close by and how many are coming.
- They can view first aid tips, and close the request when sufficient help has arrived.

4.

- The responder is given a map view to direct them to the emergency location>
- They are only given the map view when they accept the request to prevent misuse of the application.



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