

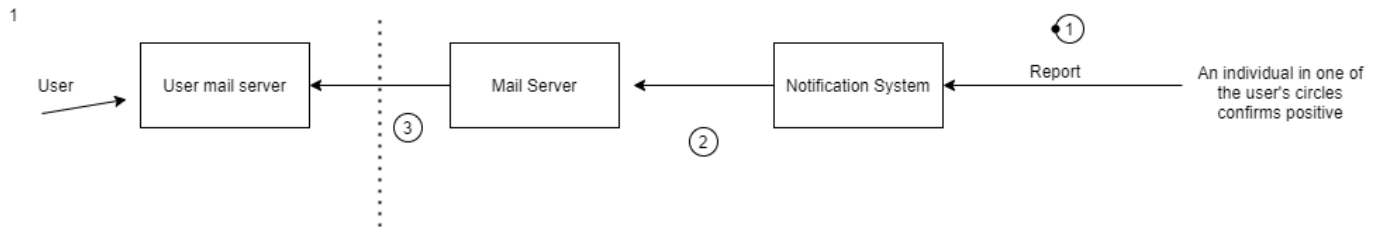
Team 3

Our project will be a web app developed application with the purpose of notification exposure of infectious diseases to the people within a persons personal and professional network. Our intended languages will be HTML, PHP, and Laravel. The main mechanism for the application will be the anonymous and or public self- reporting of positive test results of infectious disease, which will then automatically inform the people within the reporter's network. A users network will be made up of contacts and organizations that have an account for the application. The notifications will be based on a disease-by-disease basis that will be in line with recommendations by the CDC for each particular disease. The application will have a user mode which will be used to notify and receive notifications of exposure to infections disease, and an administrator mode which will be used to upload seating/personal vicinity of its employees for the purpose of tracking exposure.

A. As a general user, I want to receive notifications if I have been exposed to an infectious disease so that I can quarantine and prevent myself from spreading the disease.

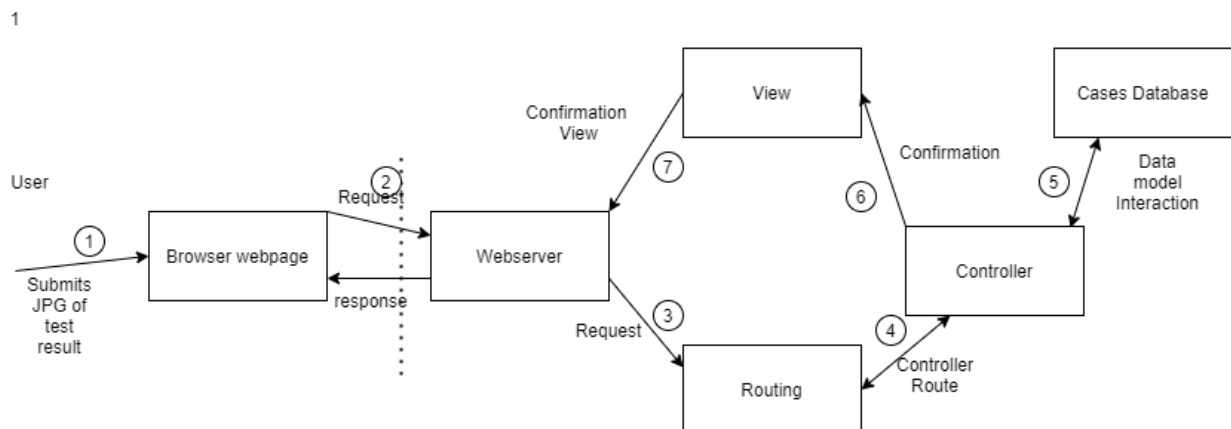
A.1. There shall be a notifications center where users can view all notifications.

A.2. There shall be emails sent to users when they have pending unread notifications in their notification center



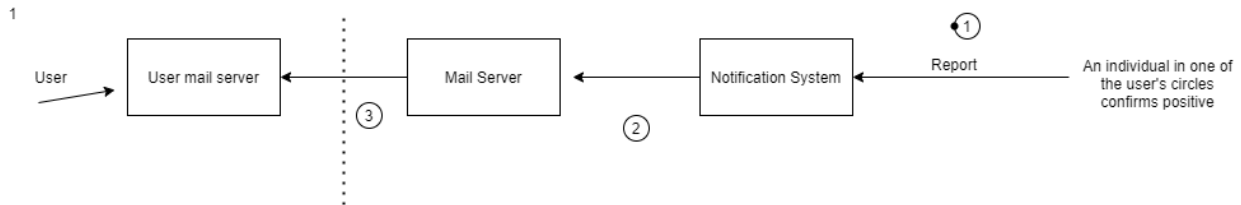
B. As an organization admin, I want there to be a quick way for organization members to report that they have tested positive for an infectious disease so that organization members can be notified of possible exposure.

B.1. There will be a function that allows users to report a positive test or exposure to an infectious disease which will send a notification to an organization admin so that they can notify organization members.



C. As a general user, I want people within my network to be notified if I have tested positive or have been exposed to an infectious disease so that they know that I am sick.

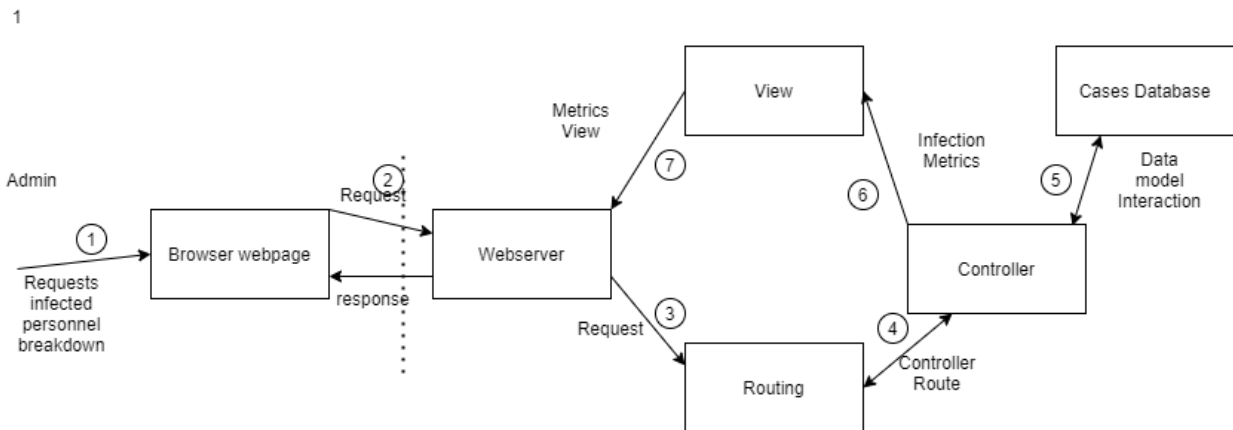
C.1 There will be a function that allows users to report a positive test or exposure to an infectious disease which will send a notification to people within the user's network.



D. As an organization admin, I want the ability to see how statistics on how many people have tested positive or have been exposed to an infectious disease so that I can take action if too many people are getting the disease.

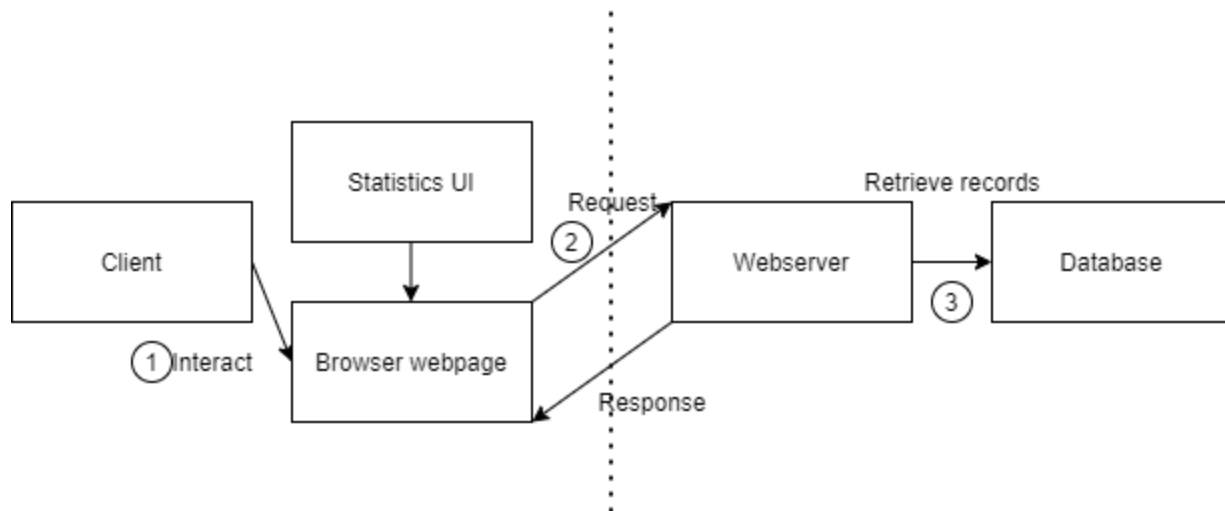
D.1. There will be a graphical UI that shows organization admins statistics about positive/exposure cases within the organization.

D.2. The GUI shall have an option to view statistics of reported positive/exposure cases over a period of time specified by the admin



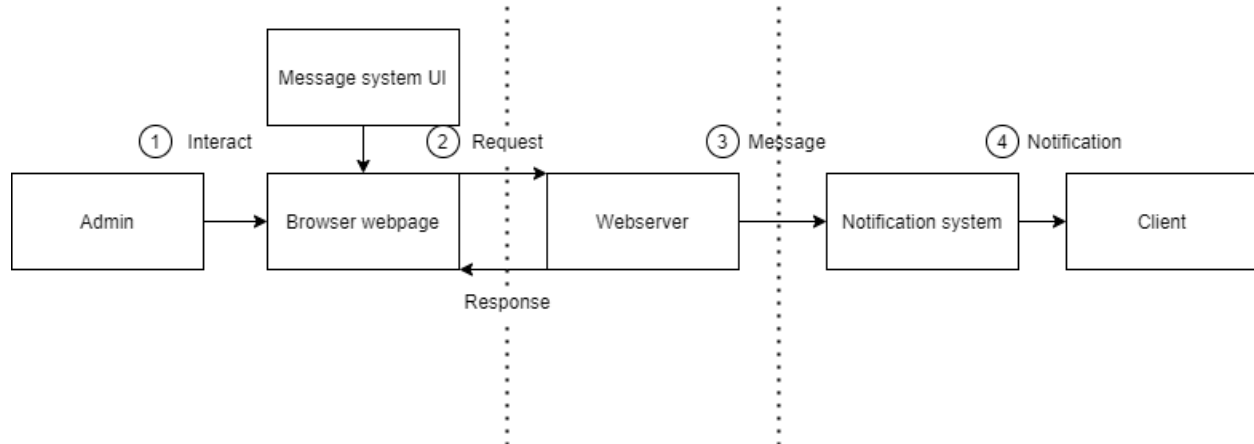
E. As a general user, I want to see statistics on how an infectious disease is spreading through my close contacts and organizations I am associated with so that I keep my distance from contacts that are sick.

E.1. There will be a graphical UI that shows statistics about positive/exposure cases within my network and around my network.



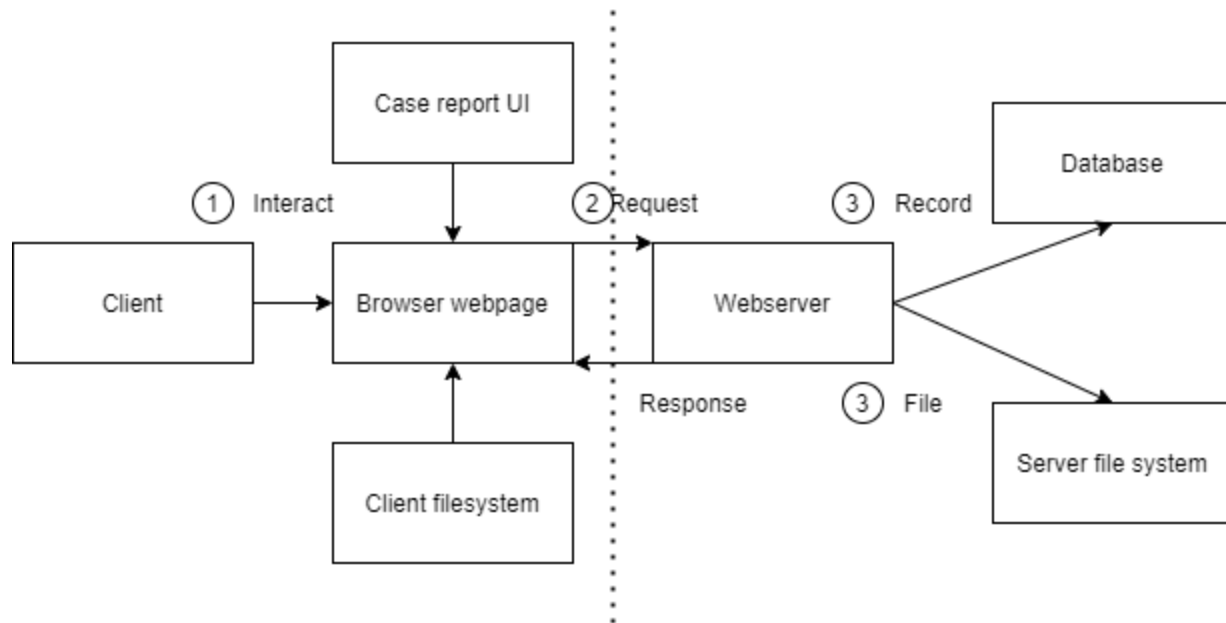
F. As an organization admin, I want to be able to send notifications to organization members about current company guidelines so that all members know what needs to be done to keep the organization healthy.

F.1. There will be a user function for an organization admin to send messages that will show up in all organization members notifications center.



G. As an admin, I want the option to protect my organization members privacy so that they will feel safe reporting any disease activity.

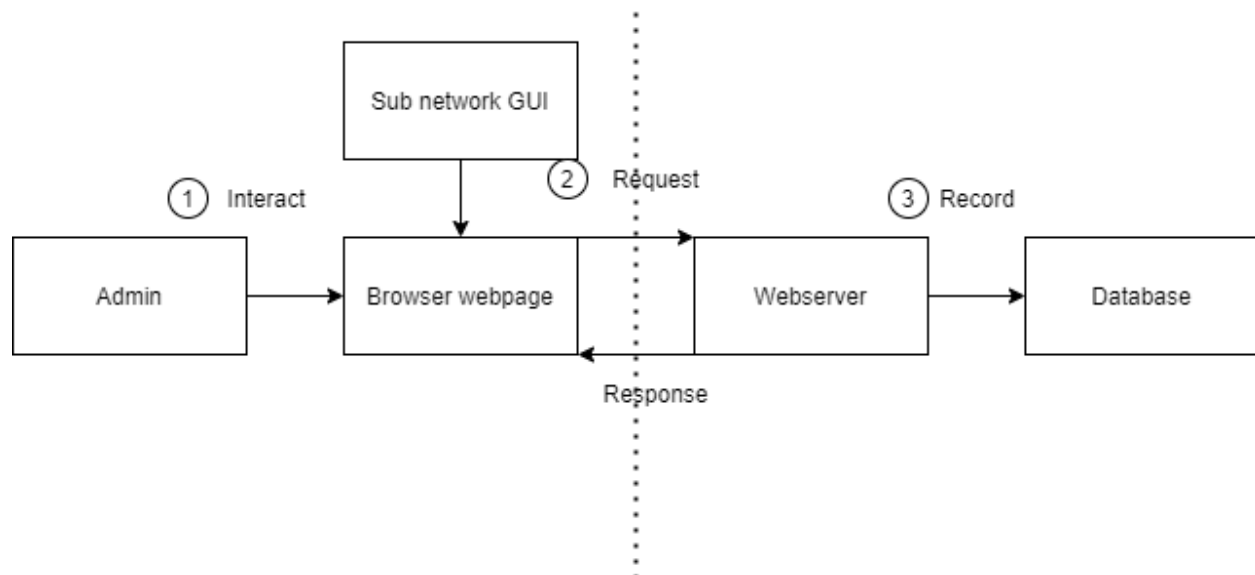
G.1. There will be an option for users to report a positive test/ exposure case to an organization anonymously if the organization admin has allowed anonymous reporting.



H. As an admin, I want the ability to track the spread of a disease within my organization at a close level by implementing seating or area assignments so that the disease can be contained and tracked better.

H.1. There shall be an option for an organizations to add a sub networks for members who work within close proximity to each other.

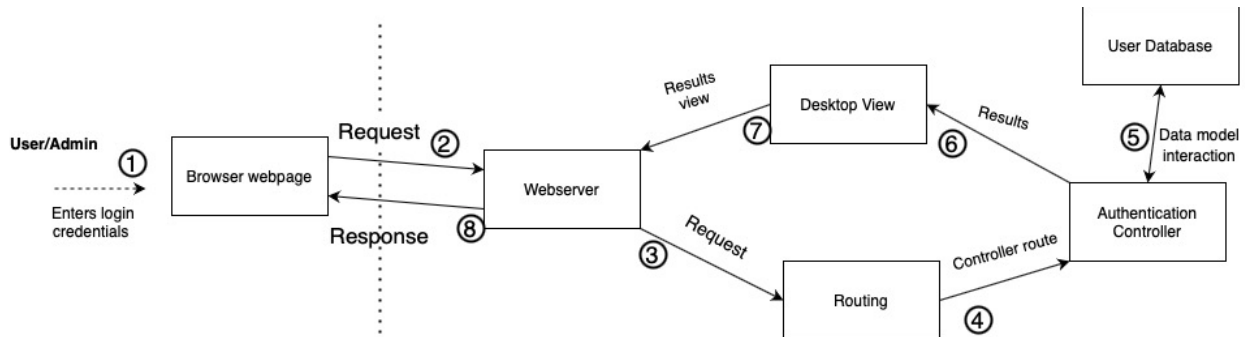
H.2. The GUI shall have an option for an organization admin to view reported cases from individuals in each sub network within the organization.



I. As a general user, I want to be able to log into an application from any of my internet enabled devices so that I am not limited by the brand of device I own.

I.1. There shall be a log in page for the web application that will function on most standard desktop web browsers.

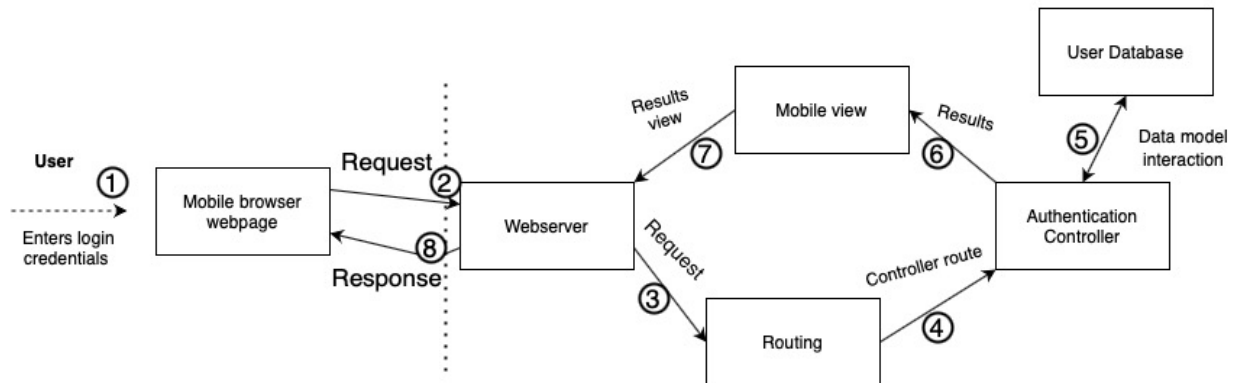
I.2. There shall be a mobile version of the web application that will let users log in and make a quick report of a positive or exposure case.



J. As an admin, I want an application that can be accessed by all organization members so that communication can be simple and done through a variety of devices.

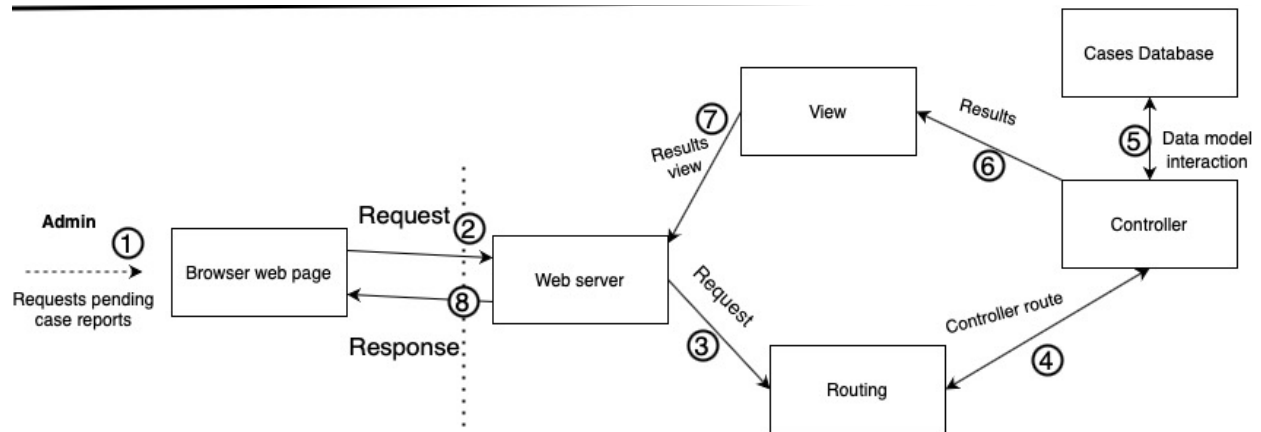
J.1. There shall be a log in page for the web application that will function on most standard desktop web browsers.

J.2. There shall be a mobile version of the web application that will let users log in and make a quick report of a positive or exposure case.



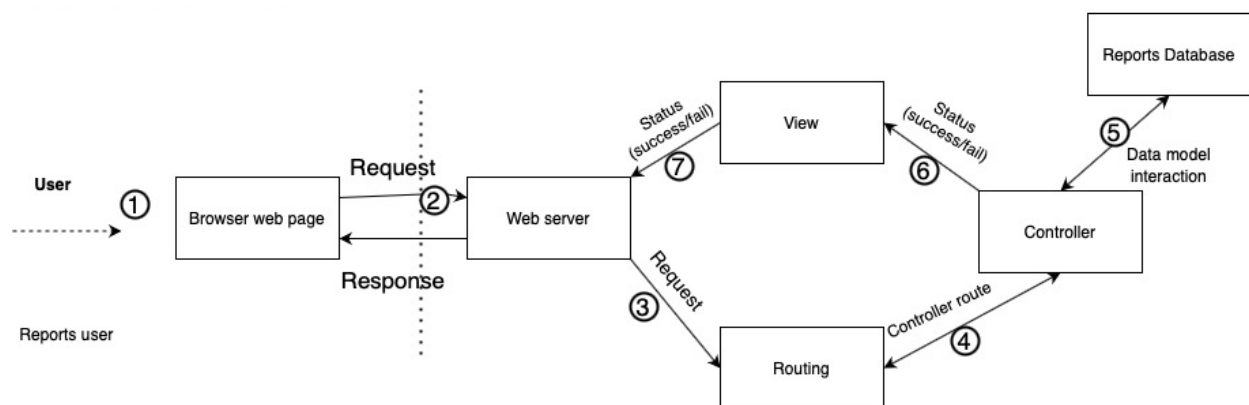
K. As an admin, I want to verify case reports from organization members so that false or inaccurate reports do not contaminate the data.

K.1. There shall be an option for admins of an organization to view reports from organization members and verify them.



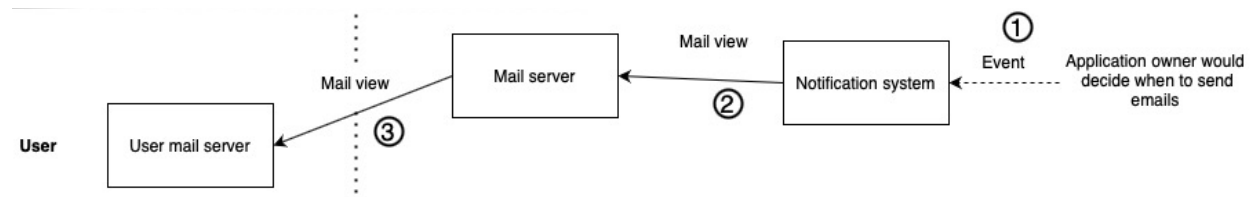
L. As a user, I want the ability to report a user or organization within my network that might be making false reports so that a malicious user does not send out numerous fake reports.

L.1. There shall be an option for users to report someone in their network who they suspect is malicious.



M. As a general user, I want to be notified of updated guidelines and news about the disease so that I can be up to date on the situation.

M1.1 There shall be a function that sends notifications to users when the CDC has updated guidelines or has updated news on an infectious disease.



Union diagram

