

Break Corona App





Description

Break Corona App has a smart tracking system which tracks the location of the users while they are travelling. The highlights are:

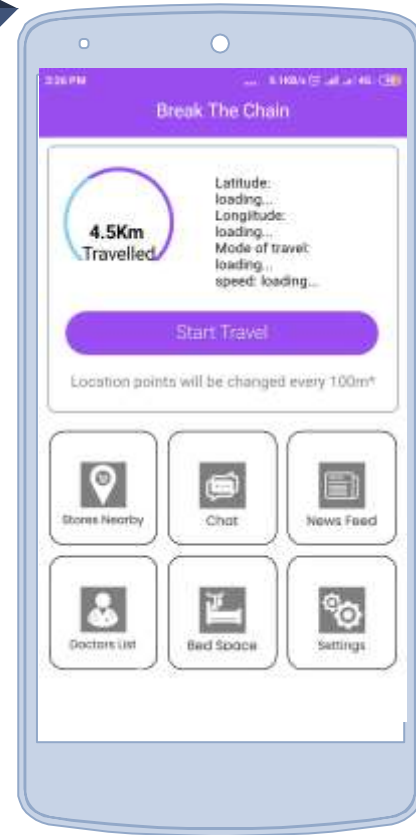
When the user is travelling through the locality where a person is Covid-19 positive they will get a notification.

If the user gets infected with covid-19, we can provide route map of the user.



Features

- User Login using SMS otp
- User live location Tracking
- Reminders on covid red alert zone & hotspot





User login

Here user can create an account by entering his/her phone number and name.

Then an OTP will be sent to the registered mobile number.

After entering the OTP, users will be able to enjoy the services.

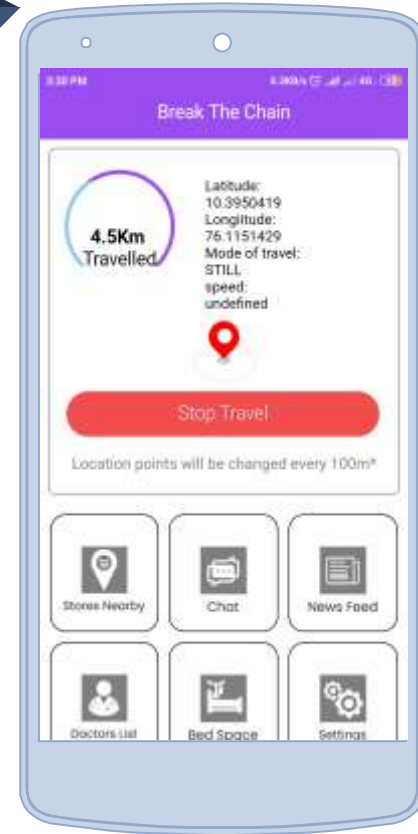
A smartphone mockup displaying a 'User Login' form. The form has a purple header with the text 'User Login'. Below the header, there are two input fields: 'Enter your Name:' with a sub-label 'Your name:' and 'Enter your mobile number:' with a sub-label 'Your mobile number:'. A purple 'Submit' button is located below the input fields. The smartphone status bar at the top shows the time '4:19 PM' and battery level '100%'.

4:19 PM 100%
User Login
Enter your Name:
Your name:
Enter your mobile number:
Your mobile number:
Submit



Tracking

- The app starts tracking when a user presses the start button and stops when the user press the stop button.
- Users get alerted when they pass through Covid-19 affected areas.
- If the user is infected with the virus, the app can provide his or her route map.
- App detects the travel mode of the user and the travel speed.
- When user doesn't have the network coverage, the app saves the locations offline and when a network is available it will be uploaded to the server.

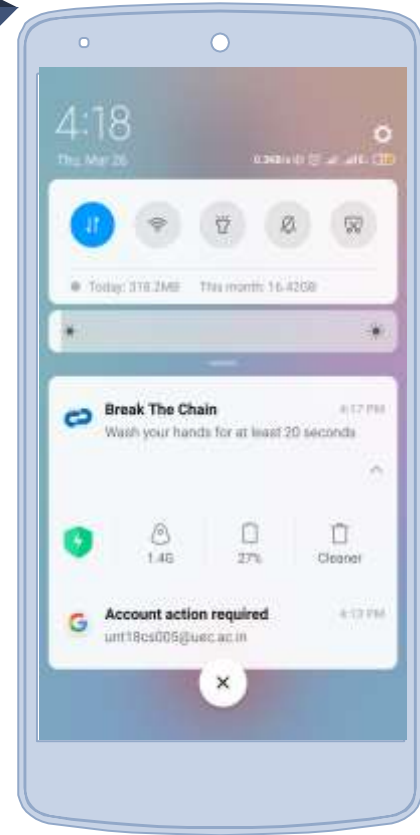




Reminder

User will receive notifications frequently about the precautions of covid-19

Eg: - "Wash hands"
"Drink water" etc.





Users of App

- Quarantined people
- Peoples going outside during the lock down period
- Volunteers



Technologies used

- Android studio
- Client side : Java & Java script
- Server side : Node js & php
- Database : Mysql -10.4- maria DB
- OTP service : Textlocal
- We use Memcached, which is a high performance distributed memory object caching system for increasing our app performance.
- We used one of the worlds best server *Digital ocean droplet, which is capable of upscaling the CPU and RAM depending upon the traffic on our app



Test results

- Our App has been successfully tested by around 100 peoples.
- Testing of the App was done by three groups of peoples
 - 1) Group of techies
 - 2) Group of normal smart phone users
 - 3) Group of novice smart phone users



THANKS!