KONNEX

An Application Assistant
By
The DisruptiveCoders!

Team Members

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Selected Theme

Konnex
(An Application Assistant)

PROBLEM STATEMENT

Many websites including some government websites, through which we can completemany important official work and get many important documents, generally have a very complicated and inconsistent user interface. Due to which many users find it extremely difficult to get work done using that website/app.

Since website/app design cannot be changed overnight, we need some innovative solution to make it simpler for users to navigate through the website/app and report bugs in the website/app. It would also help if users can get the collective announcements made. At the same time the solution should be customized to adapt throughout the application.

SOLUTION

- AI enabled on screen application support assistant "KONNEX" .

- On screen simple floating widget, which enables multiple features on the tip of our fingers.

- Impact metrics of our app can be measured by the amount of time a user is stuck at a particular app screen. Our support assistant would significantly reduce this time.

- Frameworks/Tools/Technologies : Tensorflow, Flask, Android Studio, Spyder, Python, Adobe XD
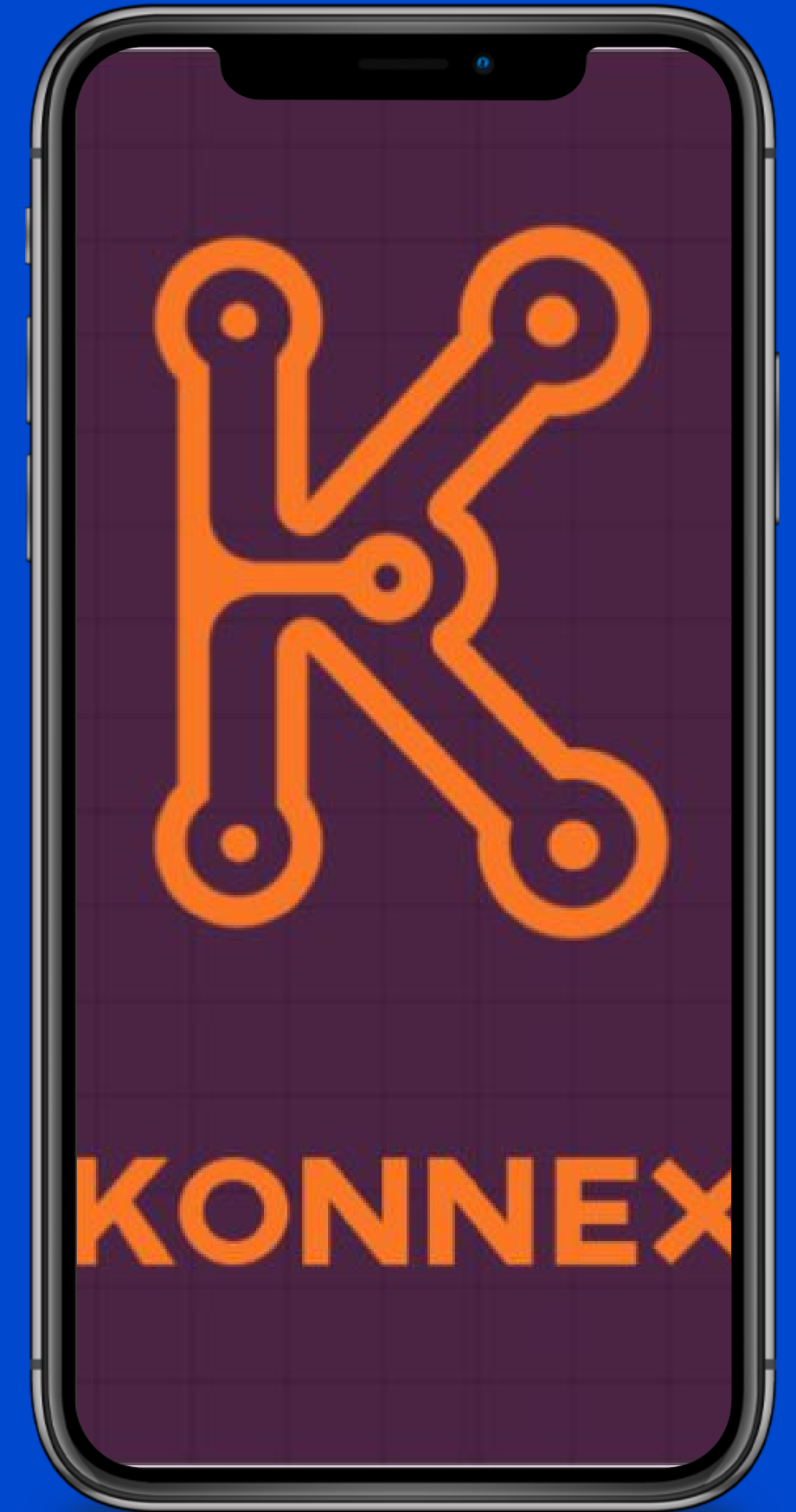
SOLUTION

- Constraints of KONNEX is that the user should have an android powered smartphone.

- Our solution decision points were :

- Increase in content & decrease in screen resolution of devices have resulted in inefficient UX, thus a need of solving this problem in smartphones.

- KONNEX is highly scalable because of its client side implementation.
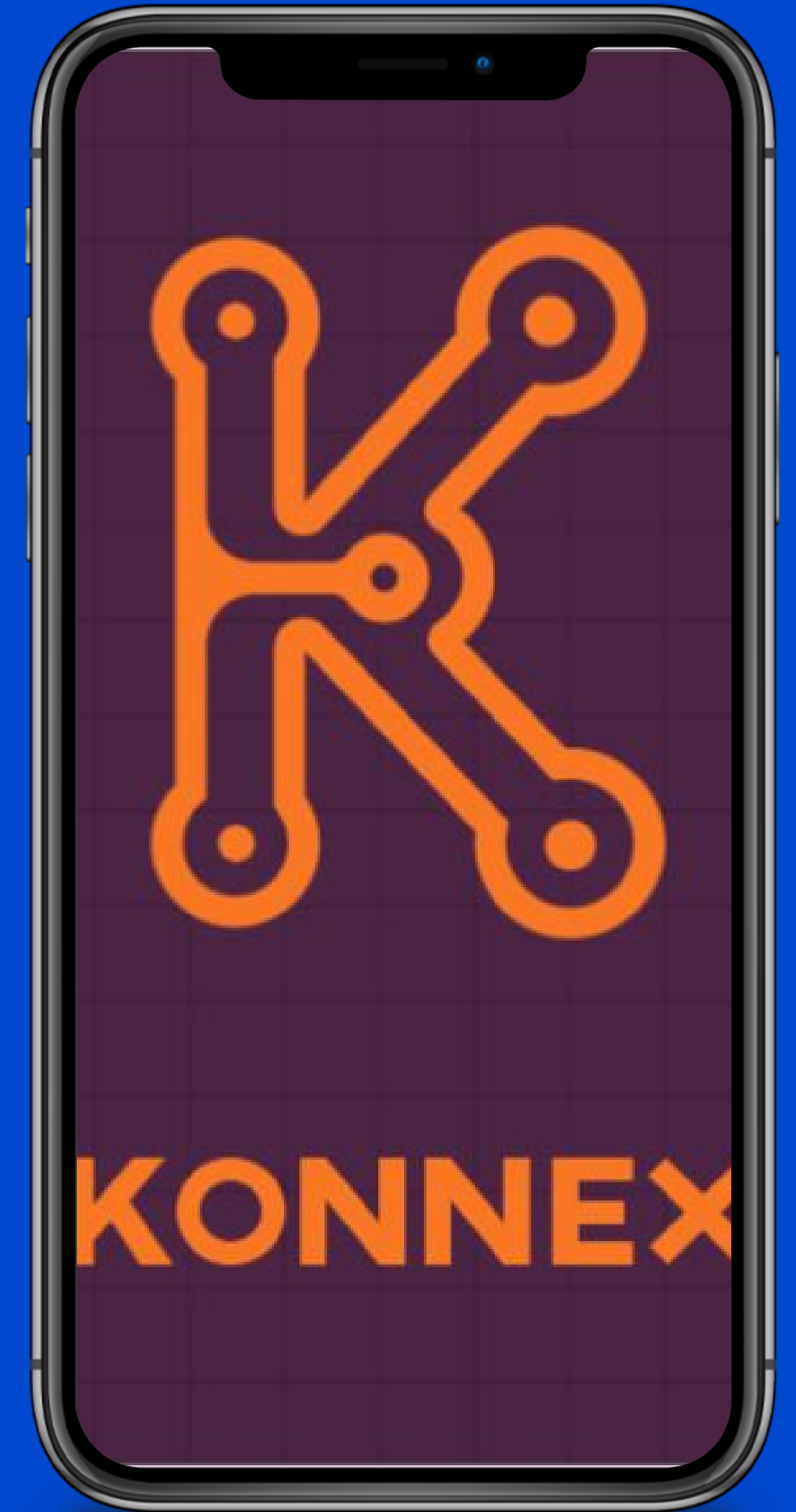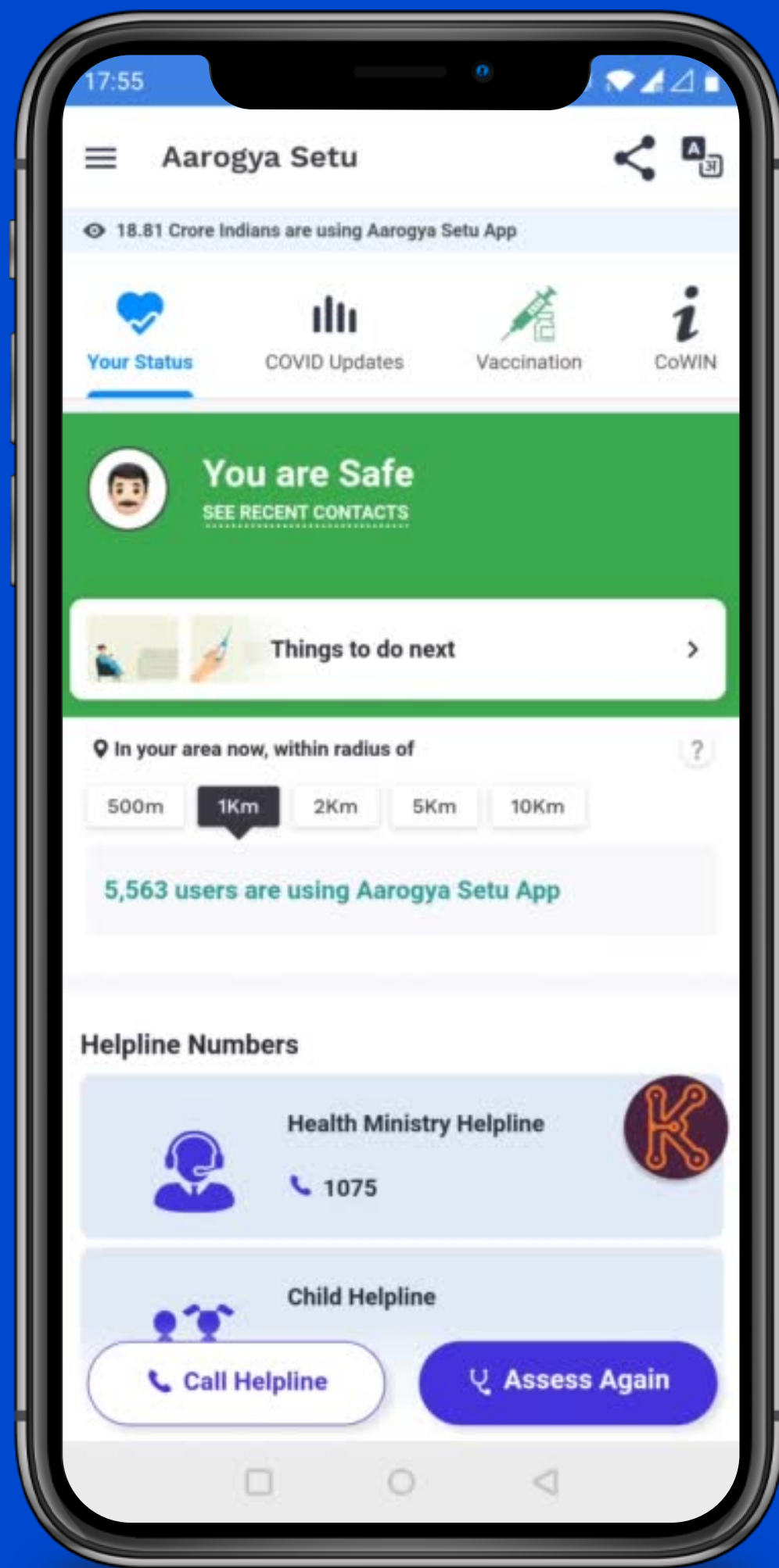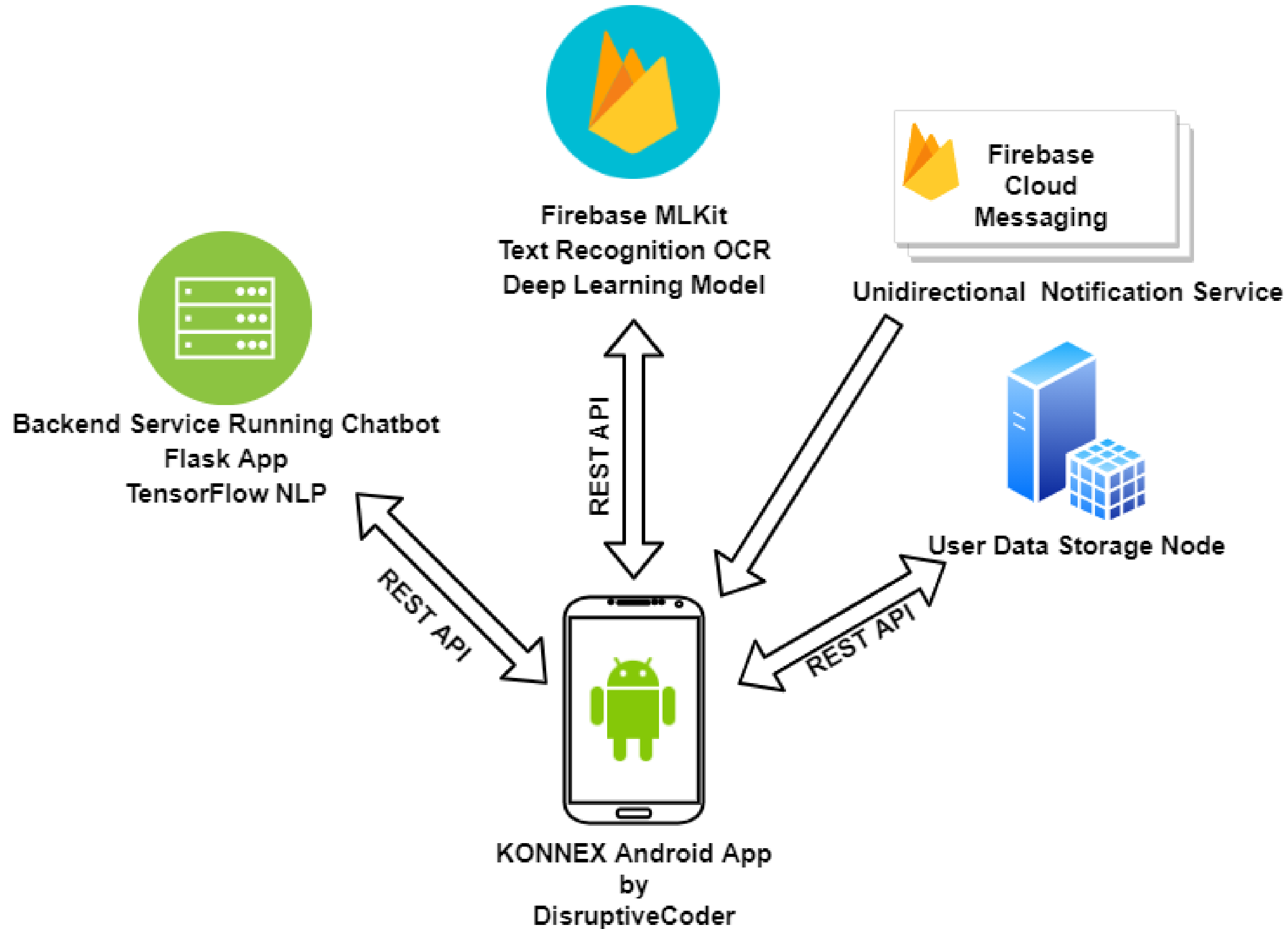
Working Prototype

The Konnex floating widget at your service!
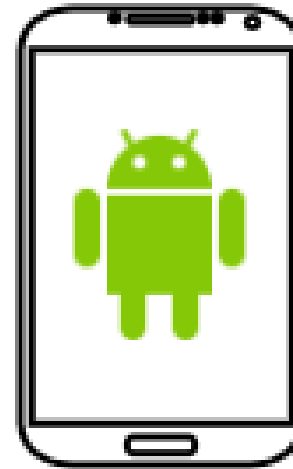
The demo alongside shows how the Konnex app can help assist users with the help of the dedicated chatbot that has been designed to answer all the FAQs or even any other questions that the user may have, or a problem they may run into, and tries to resolve it with state of the art AI/ML solutions.
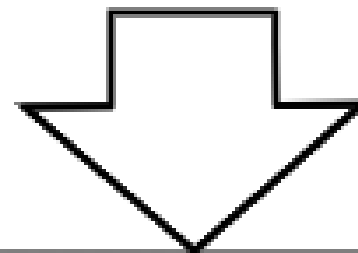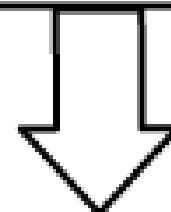
Drive Video Link : http://tiny.cc/disruptivecoder

ARCHITECTURE

Firebase MLKit
Text Recognition OCR
Deep Learning Model

Firebase
Cloud
Messaging

Unidirectional Notification Service

Backend Service Running Chatbot
Flask App
TensorFlow NLP

REST API

REST API

REST API

User Data Storage Node

KONNEX Android App
by
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ARCHITECTURE
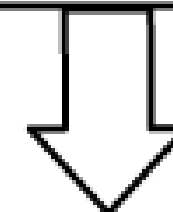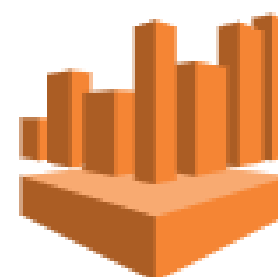

KONNEX Android App
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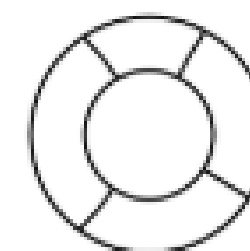
CLIENT SIDE (ANDROID) SERVICES RUNNING IN BACKGROUND
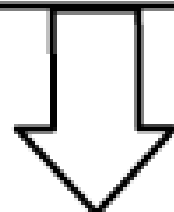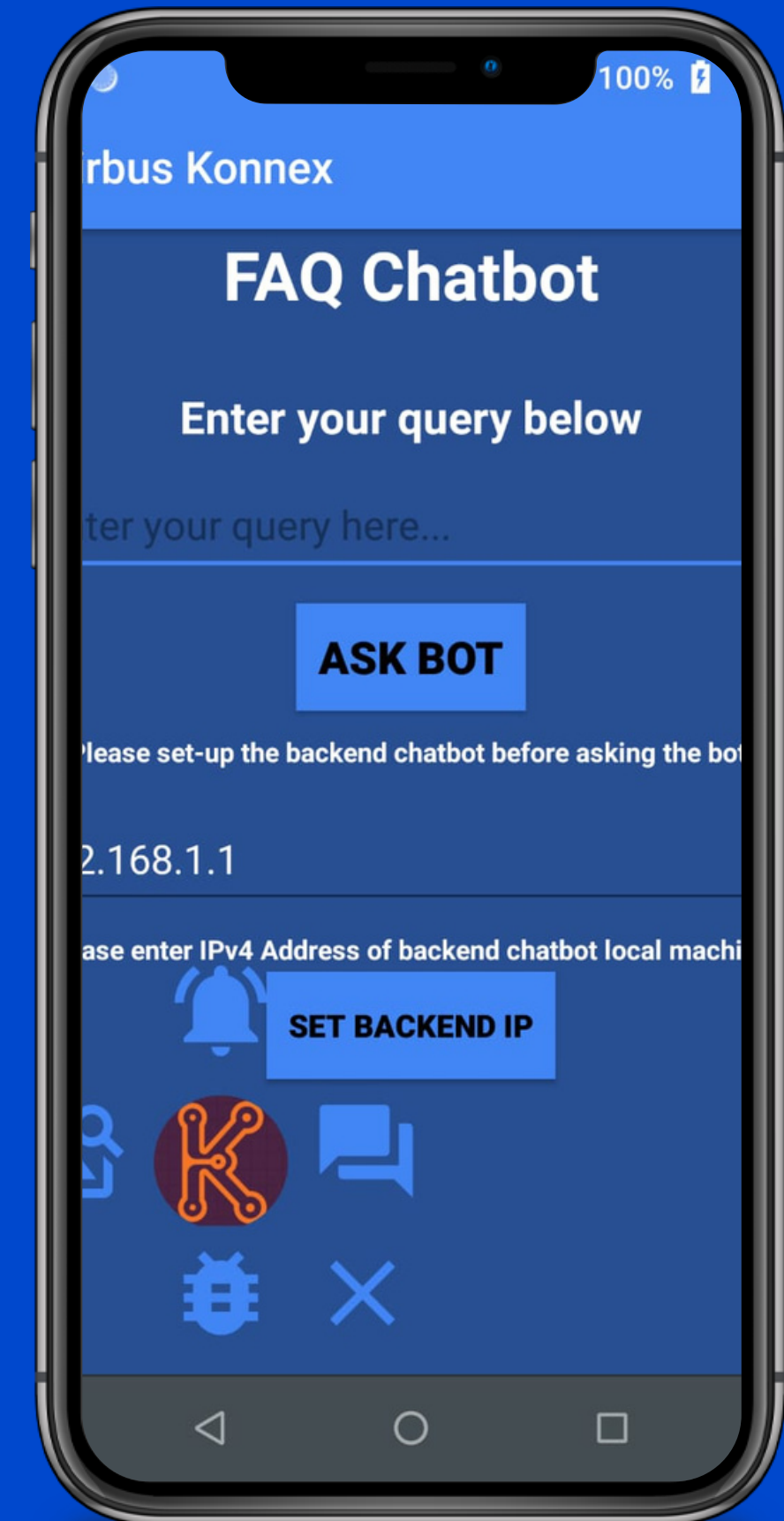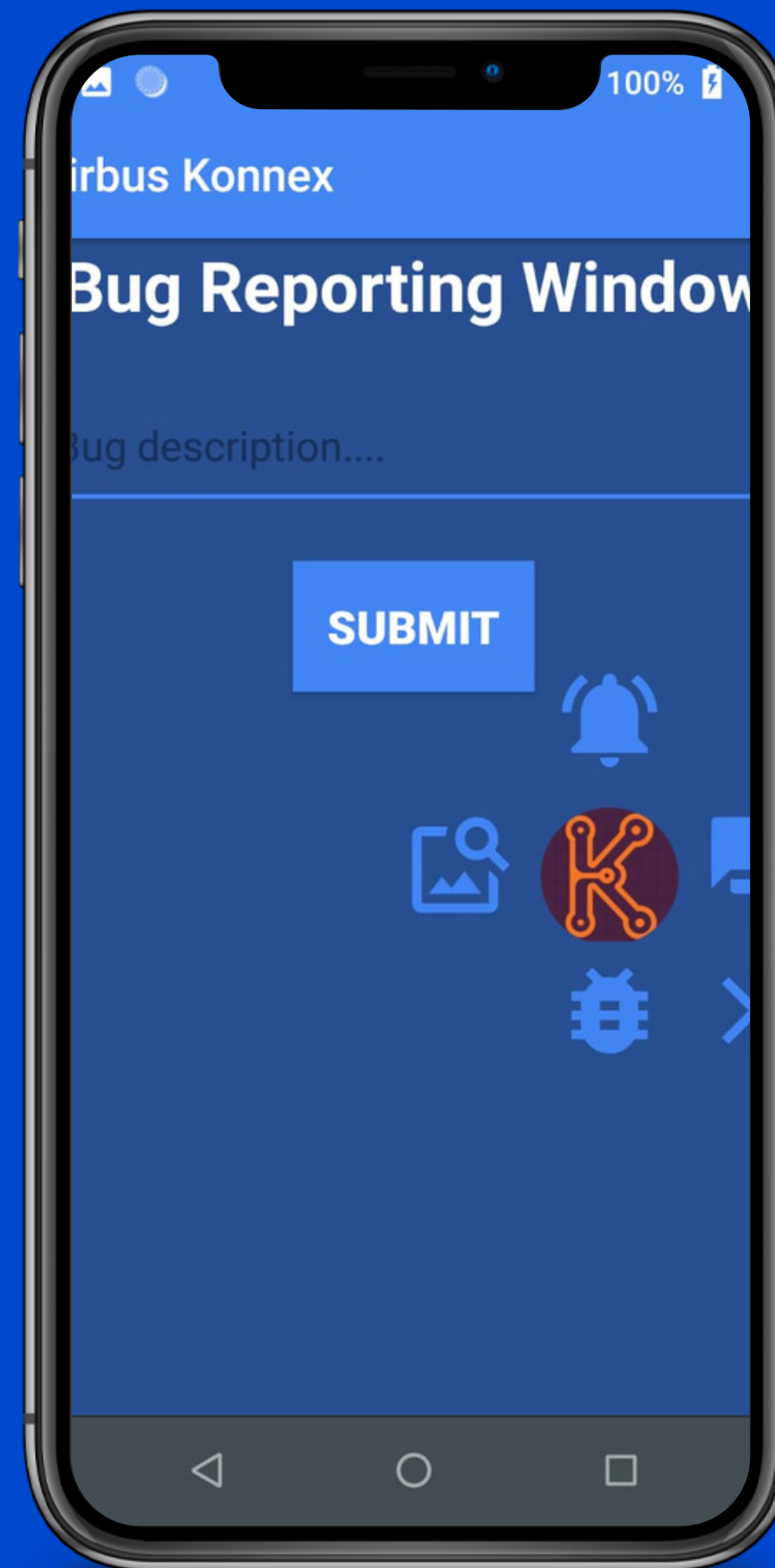
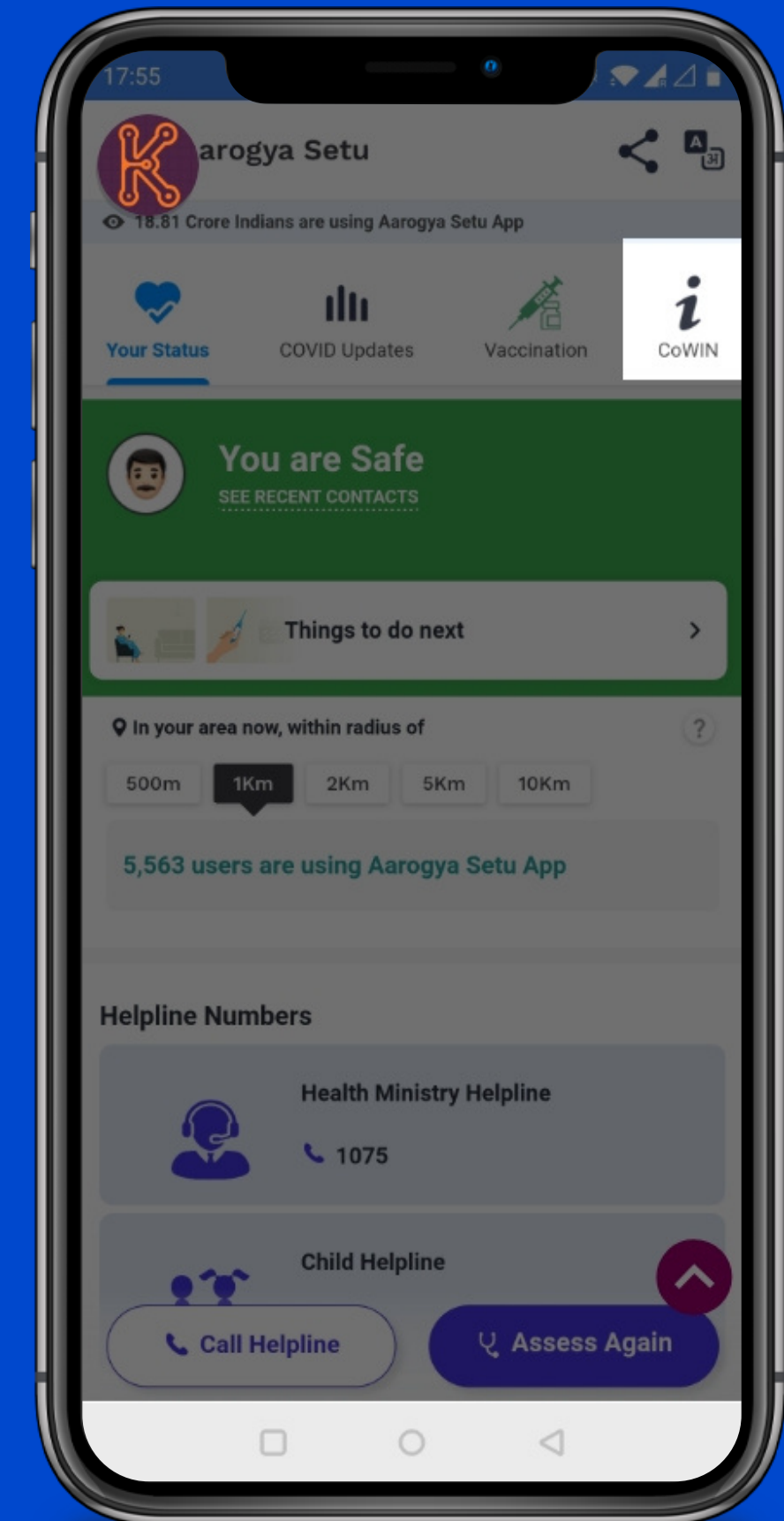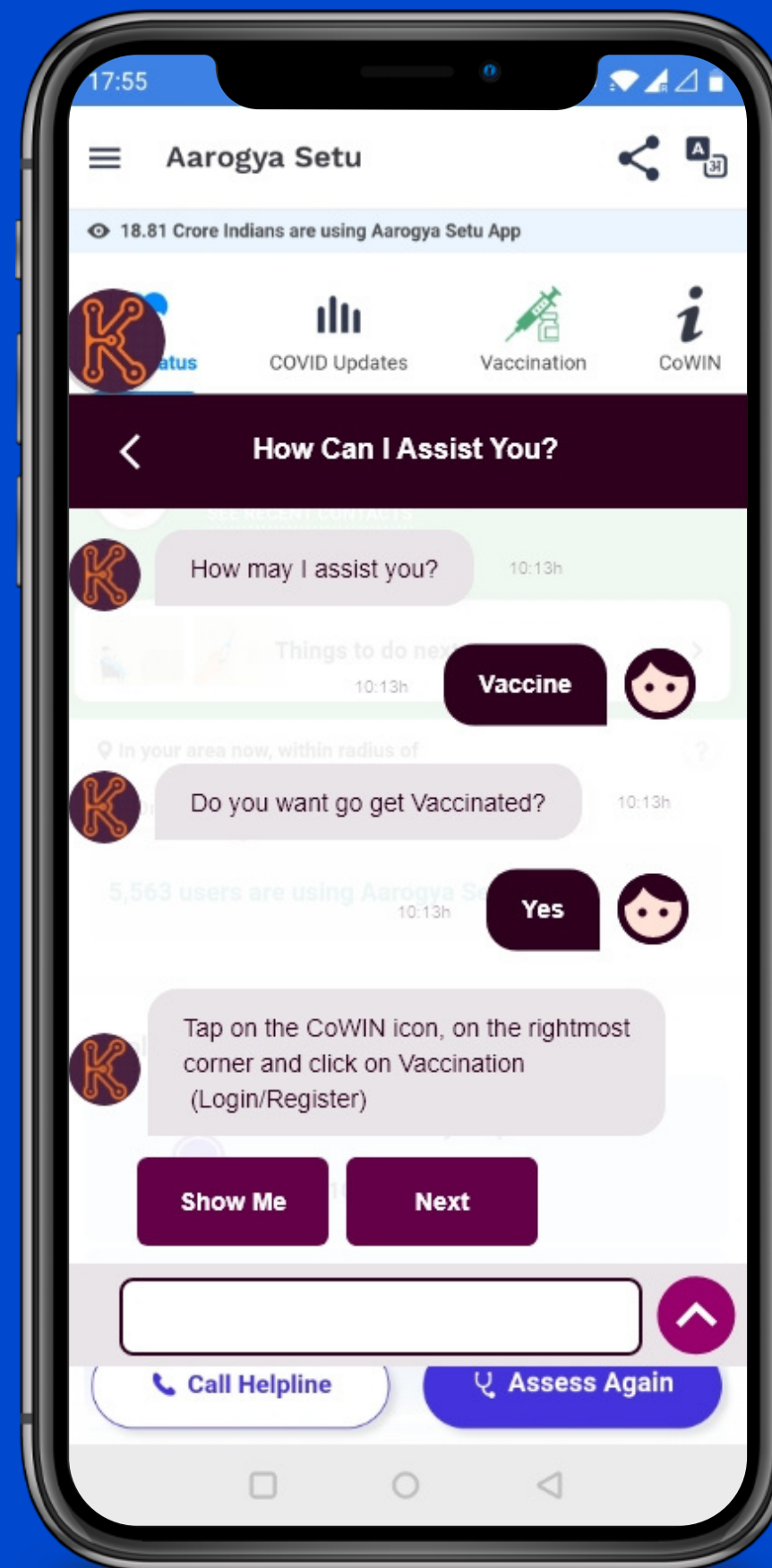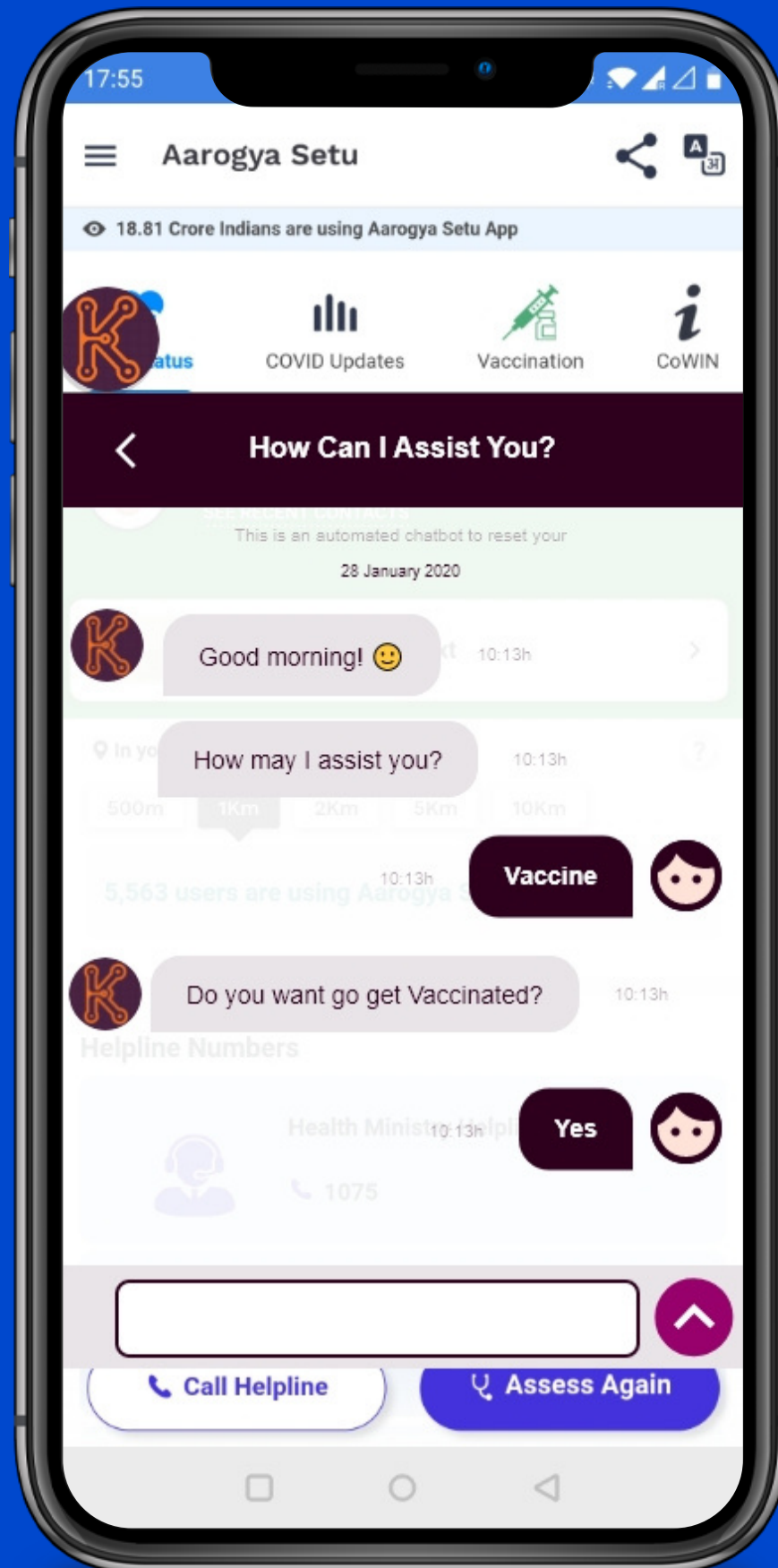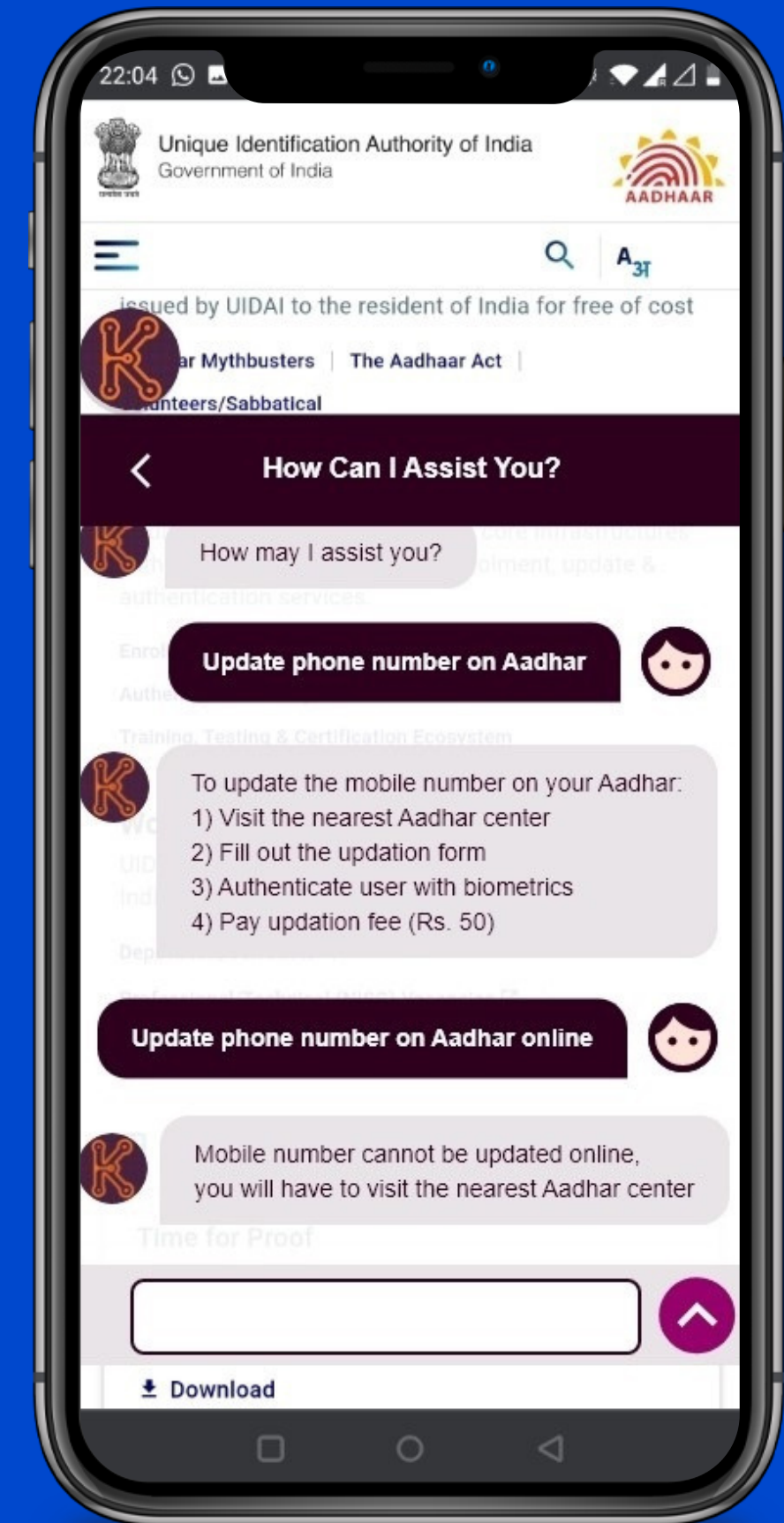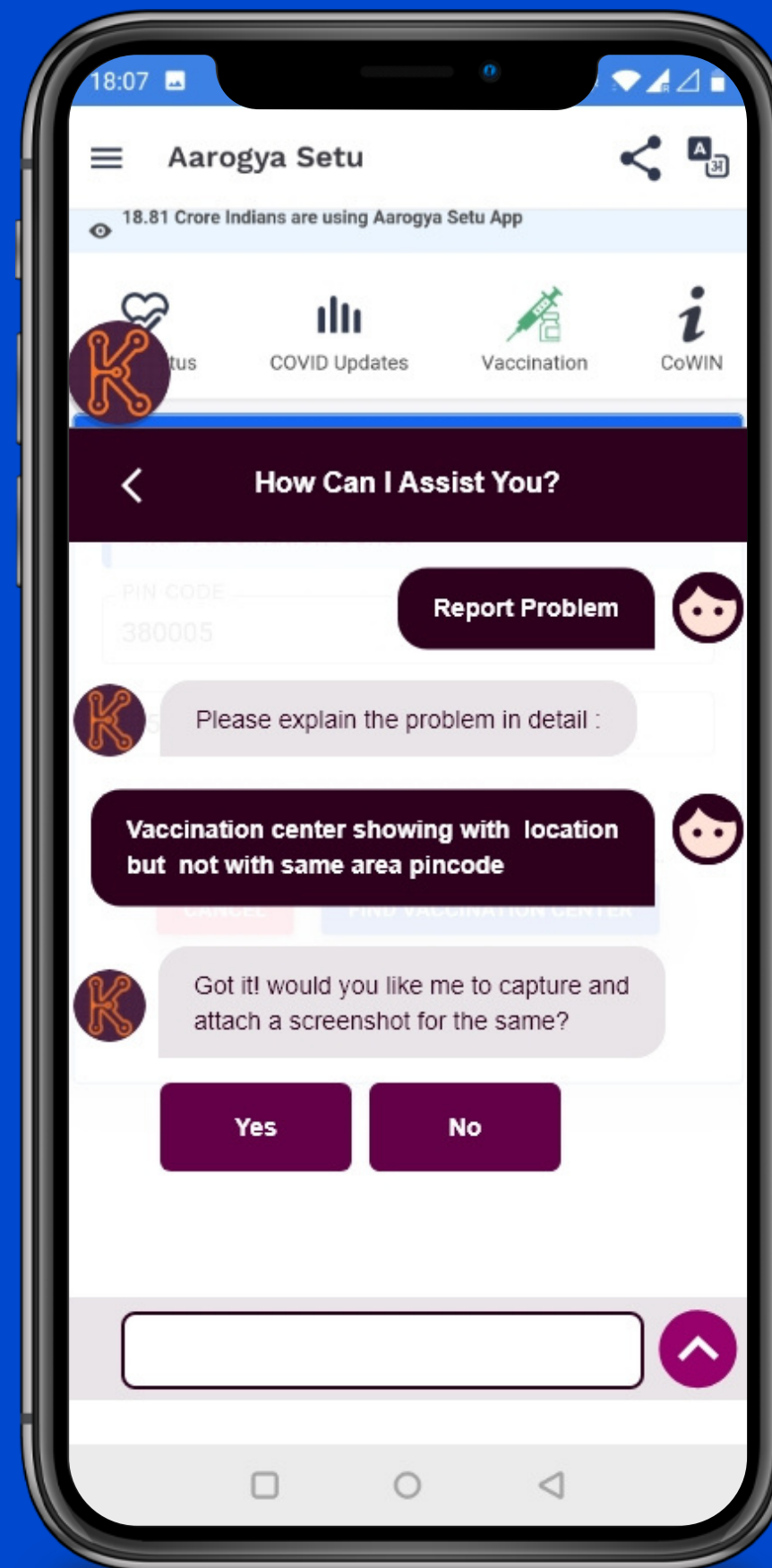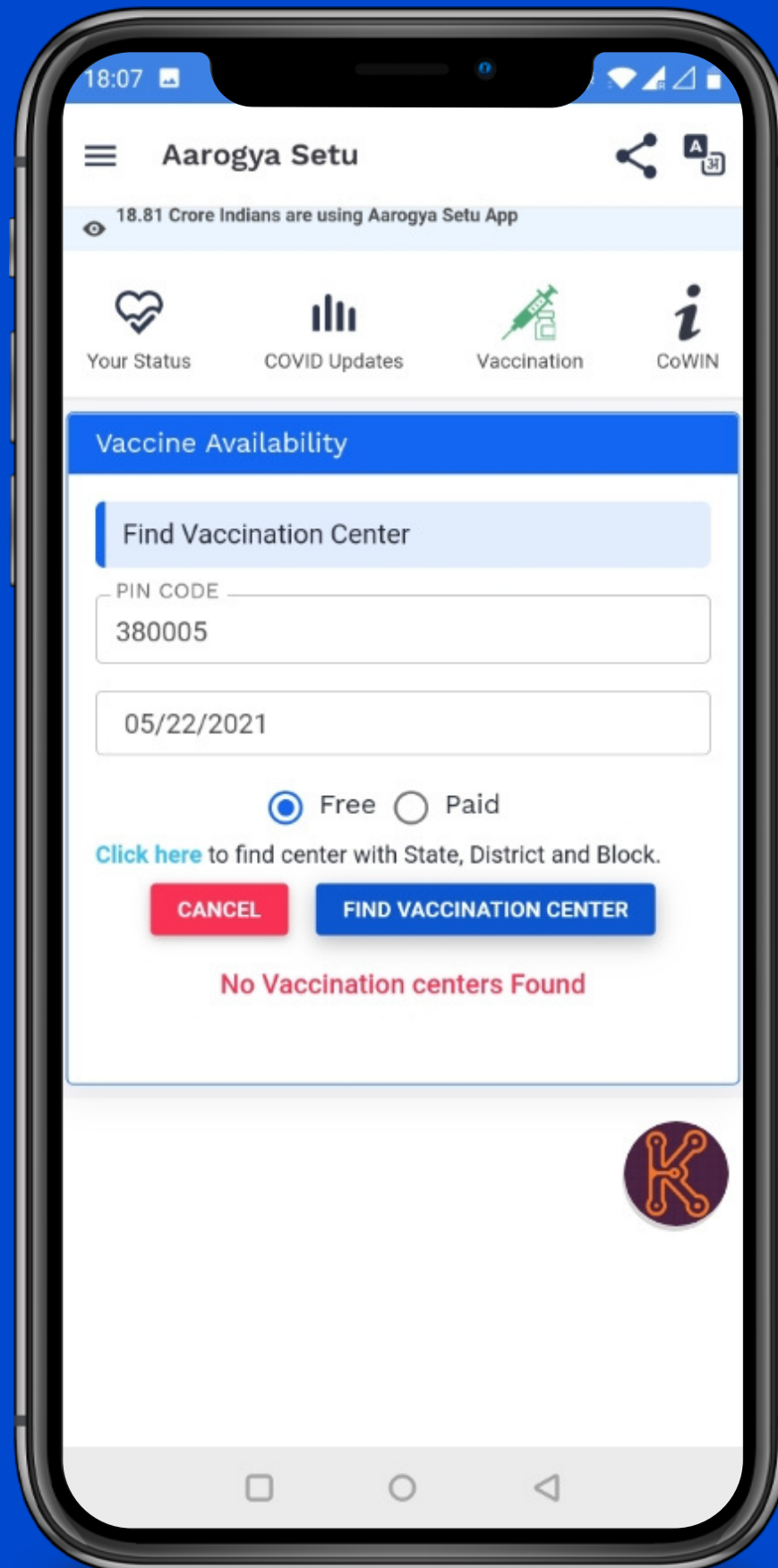| CPU USAGE MEASURING SERVICE | ACTIVITY/PAGE ANALYTICS SERVICE | FLOATING WIDGET SERVICE |
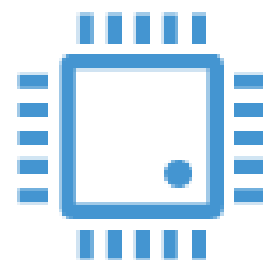
App Screenshots - Prototype

App Screenshots

App Screenshots

THANK YOU!