

Name: Abhinandan De  
Roll No: 19CS10069

My contributions in the coviapp project:

1. Was actively involved in the whole project which consisted of three parts:
  - a. *App Frontend*
  - b. *App Backend*
  - c. *Dashboard Frontend*
2. Specifically managed the designing of the dashboard to show patient data

Used a Javascript framework (React.JS) along with several other libraries to build the dashboard which has the following facilities:

- I. Refreshes and updates all data after every 30 seconds so that updates are revealed as fast as possible.

*Data is fetched from an API which sends the data (entered via the smartphone app) from the database.*

- II. Has a central table which displays all data in a tabulated form with special sorting and searching features.

*The table shows important data such as SpO2, Heart Rate, Temperature, Time of last update, etc and the data can be sorted according to the values of these attributes.*

- III. Individual monitoring of student data with graphs designed using Chart.JS, consisting of the following graphs.

- a. *Temperature v/s time*
- b. *SpO2 v/s time*
- c. *Heart Rate v/s time*

*Also, another table consisting of all this data in a tabulated form was made.*

3. Contributed towards testing the smartphone app, reported bugs and requested for bug-fixes.

I endorse that the contributions noted here by the applicant are genuine.



Animesh Mukherje



Shailendra K. Varshney  
Assoc. Prof., Dept. of E&ECE

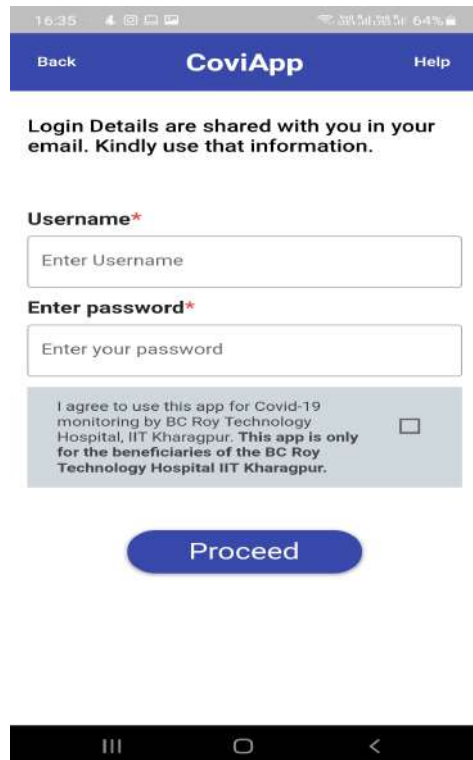
## Useful links

Github repo: <https://github.com/coviapp>

App: <https://coviapp.github.io/>

Dashboard: <https://coviapp.netlify.app/>

## App screenshots:



16:35 64%

Back CoviApp Help

Login Details are shared with you in your email. Kindly use that information.

**Username\***

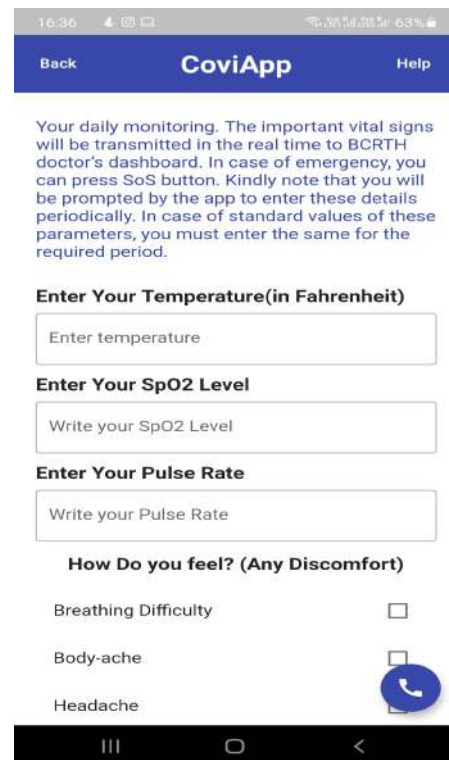
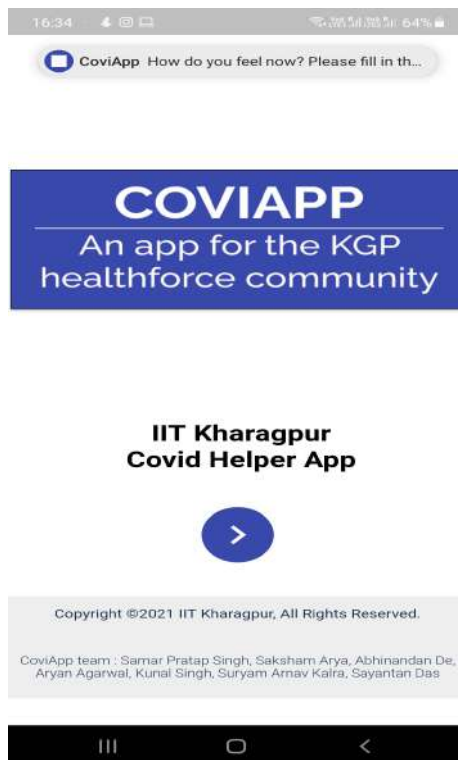
Enter Username

**Enter password\***

Enter your password

I agree to use this app for Covid-19 monitoring by BC Roy Technology Hospital, IIT Kharagpur. This app is only for the beneficiaries of the BC Roy Technology Hospital IIT Kharagpur. ☐

Proceed



16:36 63%

Back CoviApp Help

Your daily monitoring. The important vital signs will be transmitted in the real time to BCRTH doctor's dashboard. In case of emergency, you can press SoS button. Kindly note that you will be prompted by the app to enter these details periodically. In case of standard values of these parameters, you must enter the same for the required period.

**Enter Your Temperature(in Fahrenheit)**

Enter temperature

**Enter Your SpO2 Level**

Write your SpO2 Level

**Enter Your Pulse Rate**

Write your Pulse Rate

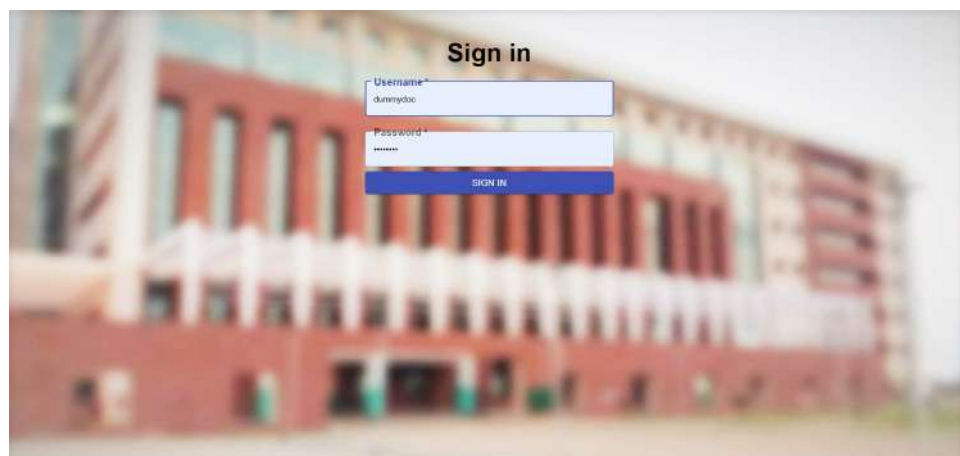
**How Do you feel? (Any Discomfort)**

Breathing Difficulty ☐

Body-ache ☐

Headache ☐

## Dashboard screenshots



Welcome											LOGOUT
CoviApp Dashboard											
Name	Actions	Category	Location	Temperature °F	SpO2 %	Pulse Rate	Covid positive	Days in isolation	Condition	Last Updated	
Sayani Chatterjee	→	PhD Student(Inst./Sponsored)	SAM Guest house	97	98	78	yes	14	headache,	19:06 26/06/21	
Debddeep Samajdar	→	PhD Student(Inst./Sponsored)	Visvesvaraya Guest House	97	99	83	yes	729630		21:06 03/06/21	
Aishwarya Naceudra	→	PhD Student(Inst./Sponsored)	VGH	97.2	99	81	yes	728534		13:06 06/06/21	
Renjmina Parvin	→	PhD Student(Inst./Sponsored)	SAM GUEST HOUSE	96.9	99	84	yes	15	staffiness in neck and nose	22:06 25/06/21	