

# **Final Report**

**Project Title-** Covinex Covid-19 Testing Management System

## **1. Introduction-**

Covinex is a Covid-19 web-app which enables users to access some outstanding features like self-analysis for covid testing, Covid case tracker at global and country level, locating testing centers, and most importantly it has a collated Pan-India resources like available hospital beds, contact information of oxygen cylinder distributors, and medical assistance which are regularly updated.

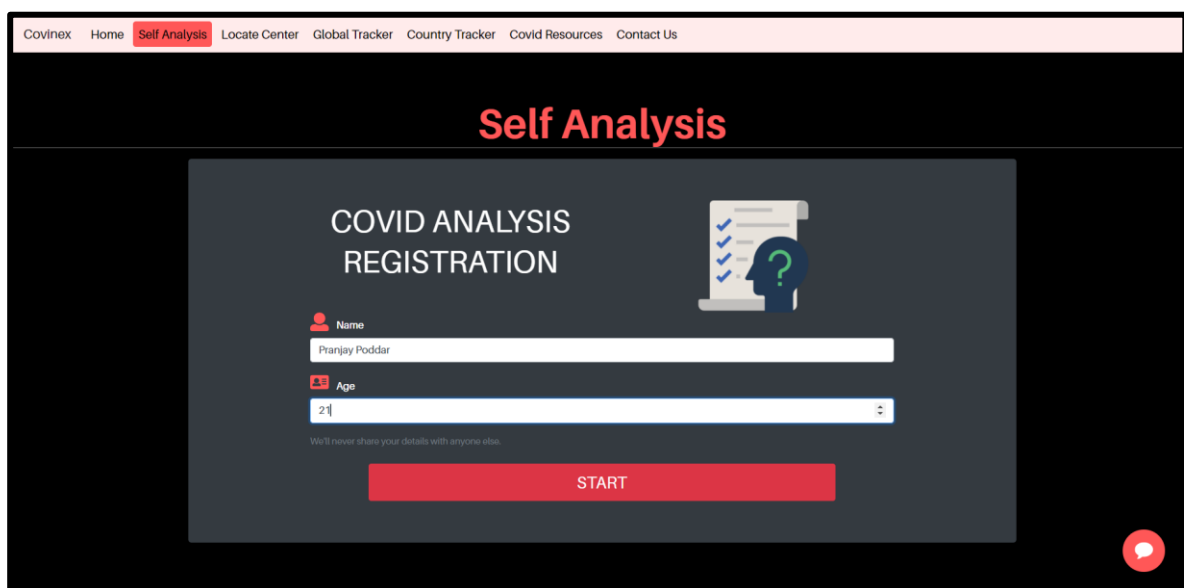
## **2. Design and Implementation-**

**A detailed system description and design and implementation details: -**

- **Home Page-** It includes the sign-in and sign-up options and also includes all the important details of website and navigation to other pages of the website. For home page I have used 3 components that is home Component, signup Component and sign in Component. In sign-up and sign-in I have used reactive forms to take the input of details. Also, I have used angular error handling and form validation to keep the forms free from invalid inputs.
- **Self-Analysis-** It includes a self-assessment page where user can attempt a self-assessment to check whether he/she require to take a covid test or not. For this page I have used two components that is analysis component and quiz component. I have created a service to create a quiz and store all the question details inside it and fetched all the data from the shared quiz.ts file in the respective component.
- **Locate Testing Centre-** If the person is suggested to take a Covid test by the self-assessment then, user can locate a nearby testing centre in their locality and book a testing appointment. In this section I have use and API service of google maps to locate a nearby covid testing center and one component is used for this section.
- **Country Tracker-** It displays the live count of covid infected people country-wise along with the number of recovered, deceased and active cases in a systematic graphs and pie charts. In this section. In this section I have fetched the live data from an API service and made all the data available in the country tracker component. This is the most challenging task of this project.

- **Global Tracker**- It displays the live count of covid infected people world-wide along with the number of recovered, deceased and active cases in a systematic graphs and pie charts. In this section I implemented a typescript code to add all the data fetched from all the countries and finally displayed it in the global tracker component.
- **Covid Resources**- It has a collated Pan-India resources like available hospital beds, contact information of oxygen cylinder distributors, and medical assistance which are regularly updated. In this section I have updated all the links to resources and chat bot and in future want to enhance this section to even better extent.
- **Contact Us**- It includes links to all the social media and chat bot. In this section I have created a contact component and used a third part chat bot integration.

## Website Screenshots: -



Covinex
Home
Self Analysis
Locate Center
Global Tracker
Country Tracker
Covid Resources
Contact Us

Select Analysis: Covid

## Covid Self Analysis

Question 2 of 9
Time: 00:06 / 10:00

2. Do you have any of these following life-threatening symptoms Pale, gray, or blue-colored skin, lips, or nail beds, depending on skin tone?

☐ Yes
☐ No

☐ Mild
☐ Sometimes

Next

Submit
Review

Covinex
Home
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Select Analysis: Covid

## Covid Self Analysis

### Analysis Responses

**COVID-19 TEST IS NOT REQUIRED! YOU DO NOT HAVE COVID SYMPTOMS**

- Do you have continuous cough?

☐ Yes
☐ No

☒ Mild
☐ Sometimes
- Do you have any of these following life-threatening symptoms Pale, gray, or blue-colored skin, lips, or nail beds, depending on skin tone?

☐ Yes
☐ No

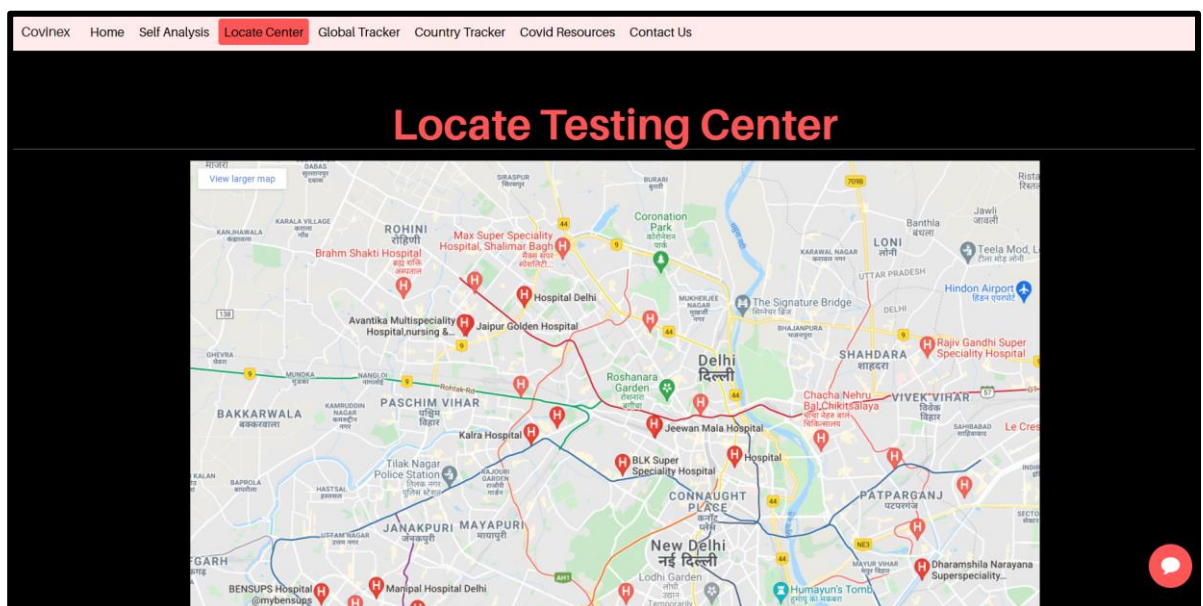
☐ Mild
☐ Sometimes
- Do you have fever?

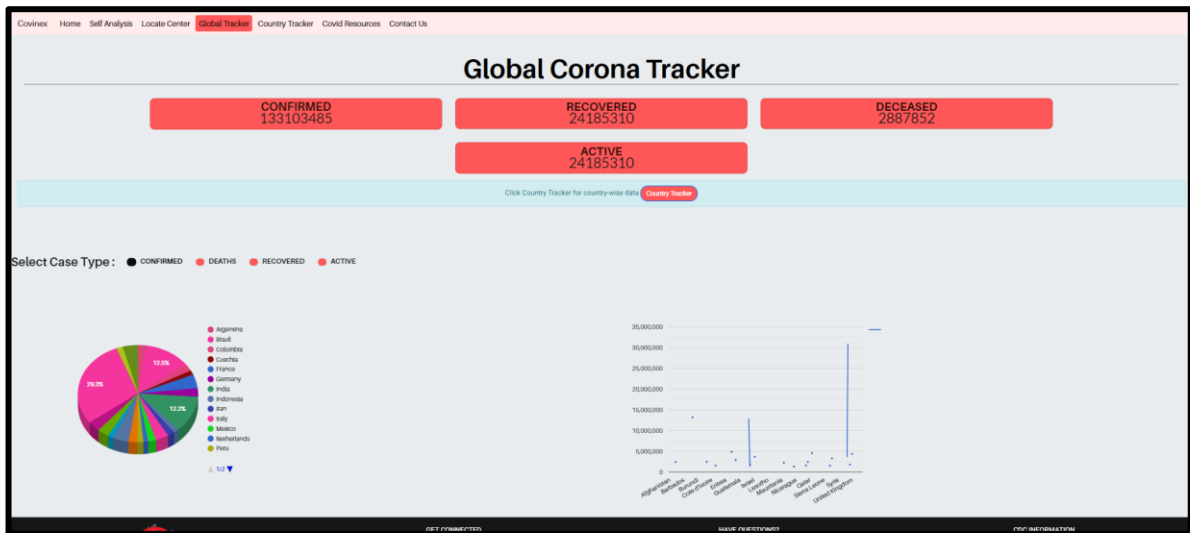
☐ Yes
☐ No

☐ Mild
☐ Sometimes
- Signs of low blood pressure (too weak to stand, dizziness, lightheaded, feeling cold, pale, clammy skin)

☐ Yes
☐ No

☐ Mild
☐ Sometimes





Covinex Home Self Analysis Locate Center Global Tracker **Country Tracker** Covid Resources Contact Us

## Country Corona Tracker

Select Country  
India

CONFIRMED  
12928574

RECOVERED  
11851393

DECEASED  
166862

ACTIVE  
910319

Click Covid Resources to access resources from Pan India [Covid Resources](#)

Sno.	Date	Cases
1	Jan 22, 2020	0
2	Jan 23, 2020	0
3	Jan 24, 2020	0
4	Jan 25, 2020	0
5	Jan 26, 2020	0

Covinex Home Self Analysis Locate Center Global Tracker Country Tracker **Covid Resources** Contact Us

## Covid Resources

Click the tabs below to get live updated contact numbers and details of some available Oxygen Cylinders, Hospital Beds, Pharmaceuticals (Remdesivir, Fabiflu etc.), Plasma Donors, RT-PCR & information for Testing and Diagnostics Centers, Ambulance Services, Food Services and some important Helpline Numbers

[Click here to get instant help from Chat Bot.](#)

COVID NATIONAL RESOURCE

Resources From Pan India(Updated every 5-min)

COVID NATIONAL RESOURCE

Resources From Pan India

COVID RESOURCES

Resources From Pan India

COVID RESOURCES

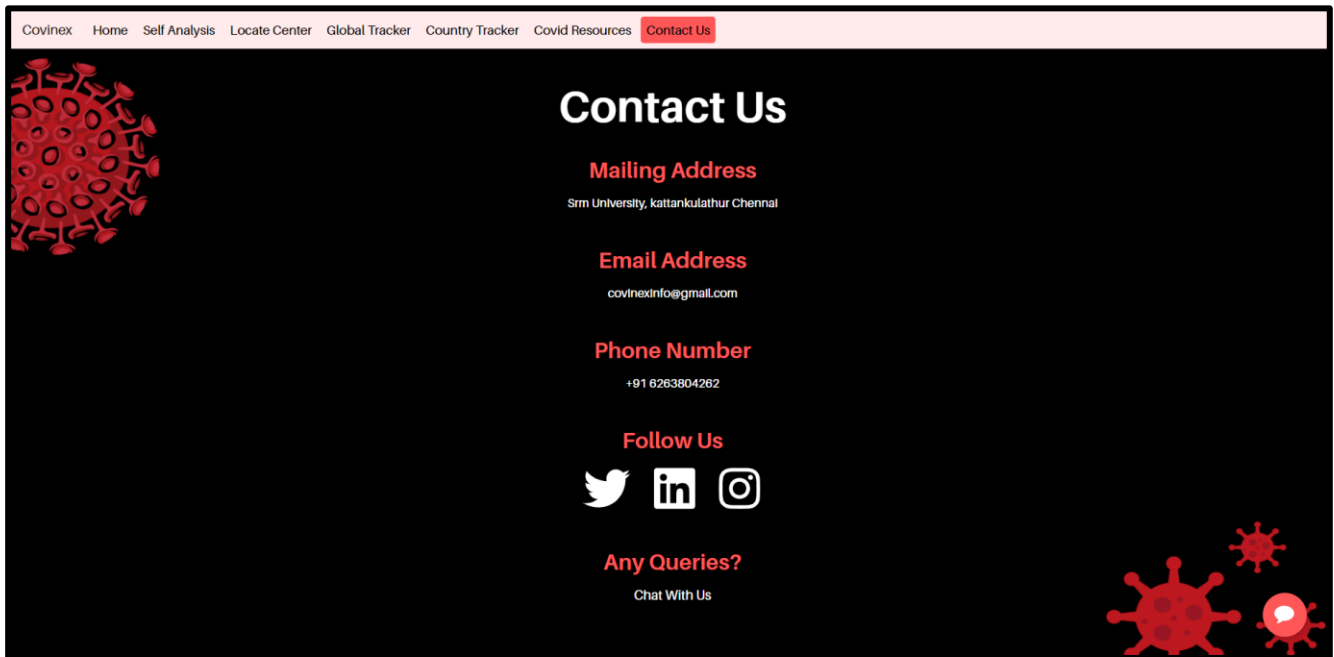
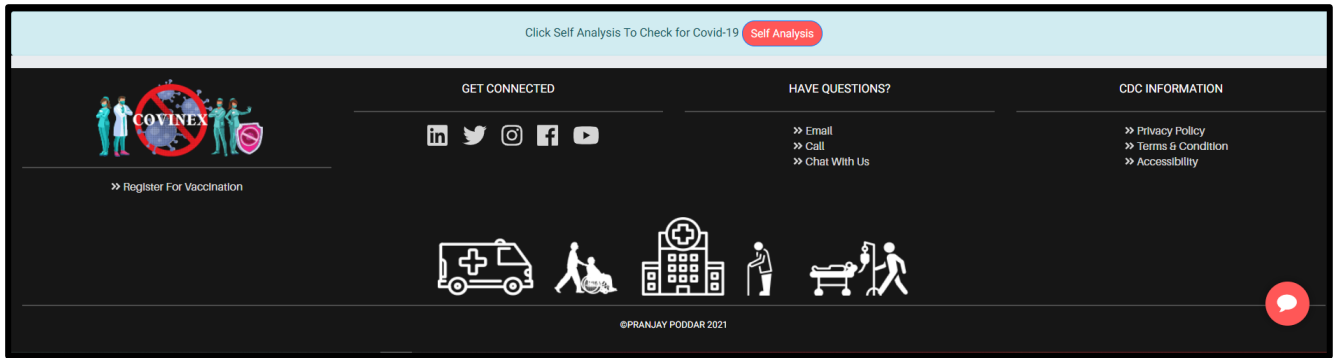
Resources From Lucknow & Delhi

REMDESIVIR DISTRIBUTORS

Resources From Pan India

FOOD SERVICES

Resources From Pan India



### 3. Conclusions:

- Successfully implemented the idea in this project, the self-analysis, global and country level tracker, covid resources and the locating nearby center for booking testing slots works seamless and are implemented successfully.
- Implementation of vaccination slot booking is a shortcoming feature in this project which will be added in the future updates.
- Choices that I might have made differently, in hindsight after completing the project is that I Wanted to implement a side navbar in mobile view instead of dropdown navbar.

### 4. References:

- <https://www.worldometers.info/coronavirus/>
- <https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/coronavirus-self-checker.html>

- <https://self4society.mygov.in/covid-resources/>
- <https://www.ncbi.nlm.nih.gov/sars-cov-2/>

**Link to Final Website: - <https://covinex.netlify.app/home>**