

CS213 - Software Systems Lab

Project Report: VaxiNO'Pandemic

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1 Introduction and Motivation

In these unprecedented times, we can't neglect the effects of the pandemic, and must speed up the process of vaccination. So, using our knowledge of Software Systems Lab, we decided to develop a [portal](#) to aid the drive. You can view a video overview of our project [here](#).

2 Main Tasks and Goals

- [Login and Sign-Up](#)
- [Information and Awareness](#)
- Statistics (requires XAMPP)
- Map of Vaccine Centres
- Checking Eligibility via Age
- Slot availability
 - Vaccine dose type
 - Age groups
 - Locations
 - If private, then fee
- Certificate of Vaccination (Generation and download/ printable HTML page)

3 Deliverables

- HTML/CSS has been thoroughly used in the website's display features.
- PHP and SQL have been used to process form input, and update the database; there are multiple SQL databases.
- Javascript has been used to code some `onClick()` actions in the site peripherals.
- \LaTeX has been used to construct and maintain this report.
- Python has been used for statistics; it executes via `shell_exec()` in PHP.
- Git and GitHub have been used for version control.

4 Screenshots

4.1 Main Page

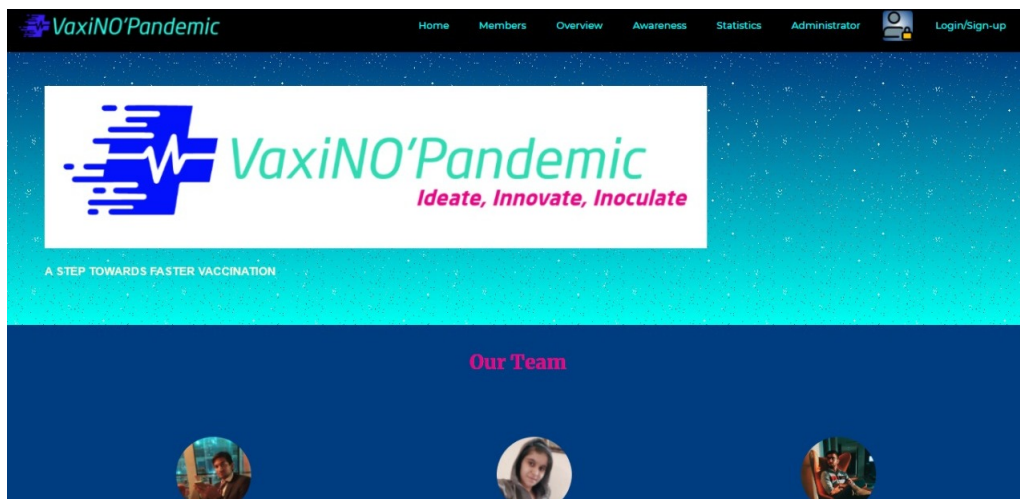


Figure 1: Main Page

4.2 Embedded Map

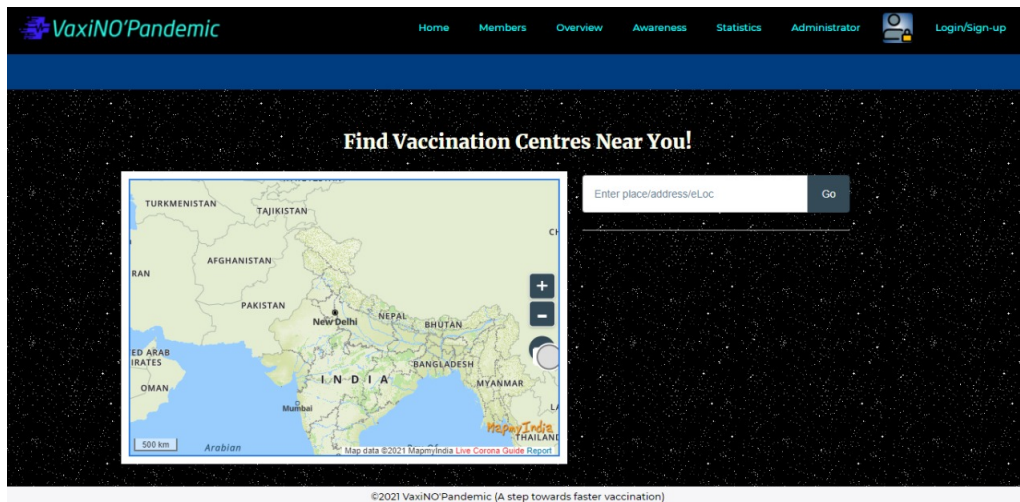


Figure 2: Map with live vaccination centers

4.3 Awareness Page

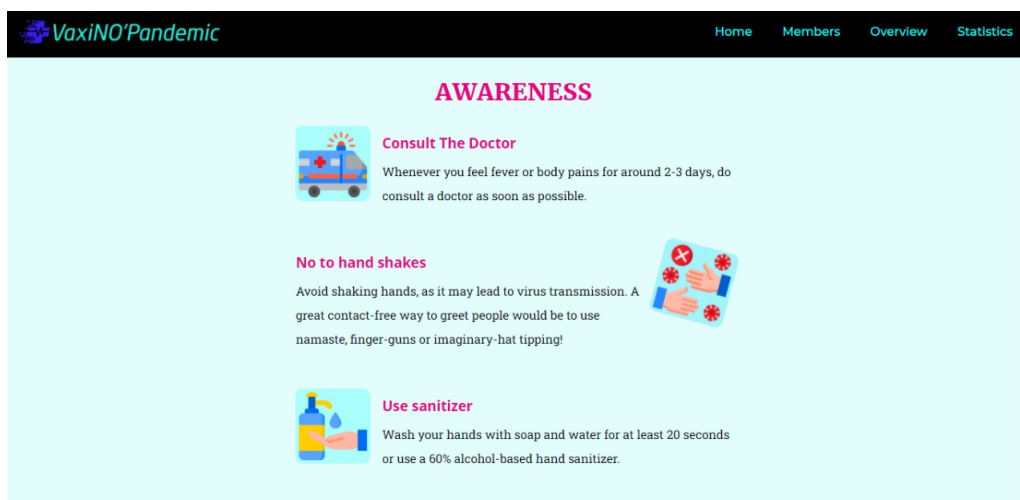


Figure 3: Awareness Page

4.4 Statistics Page

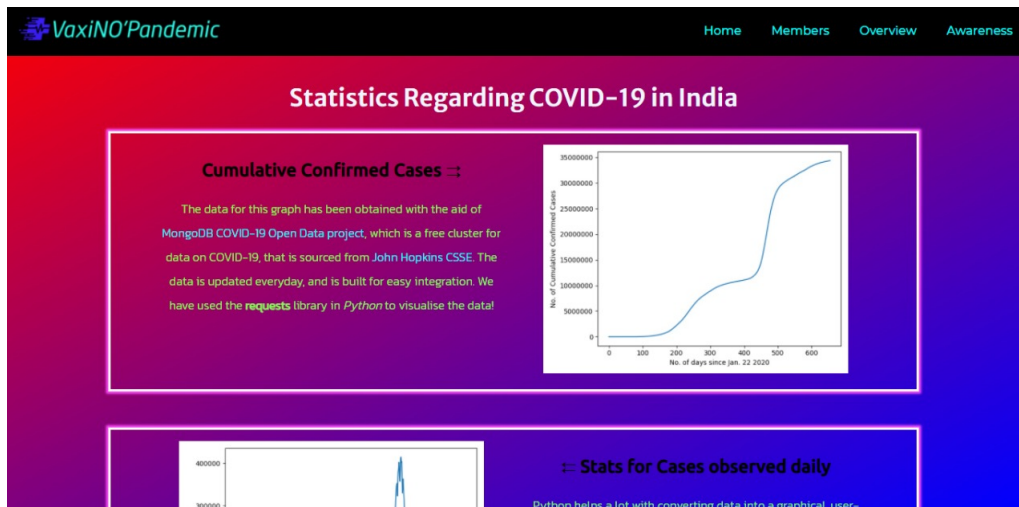


Figure 4: Statistics (in the form of map) which updates daily

4.5 Administrator Login Page

The screenshot shows the 'Administrator Log-In' page of the VaxiNO'Pandemic application. The page has a dark blue background with a red gradient at the top. The login form is centered and includes the application logo, the title 'Administrator Log-In', and input fields for 'ADMIN ID' and 'PASSWORD'. A 'SIGN IN' button is located below the password field. The page is framed by a dark blue border.

Figure 5: Administrator Login Page

4.6 Administrator Dashboard

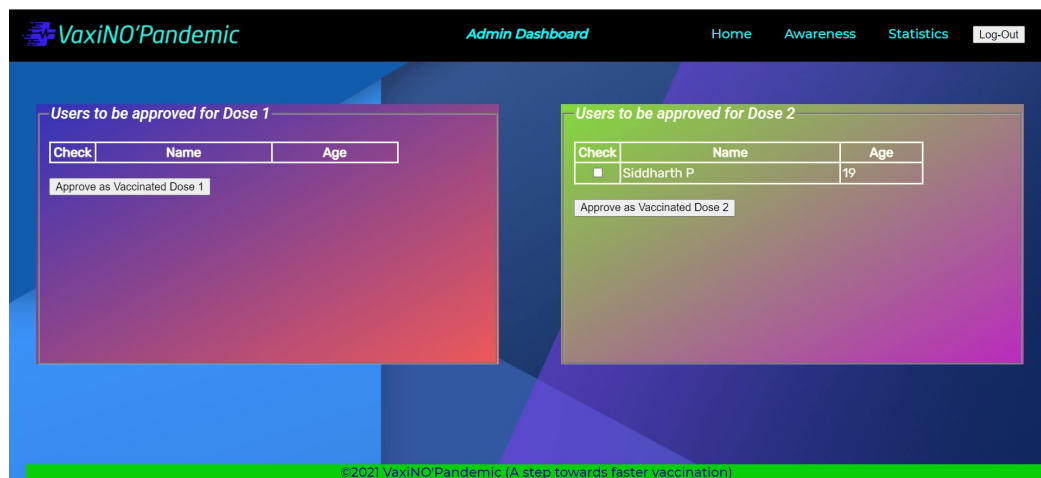


Figure 6: Administrator Dashboard

4.7 User Login Page

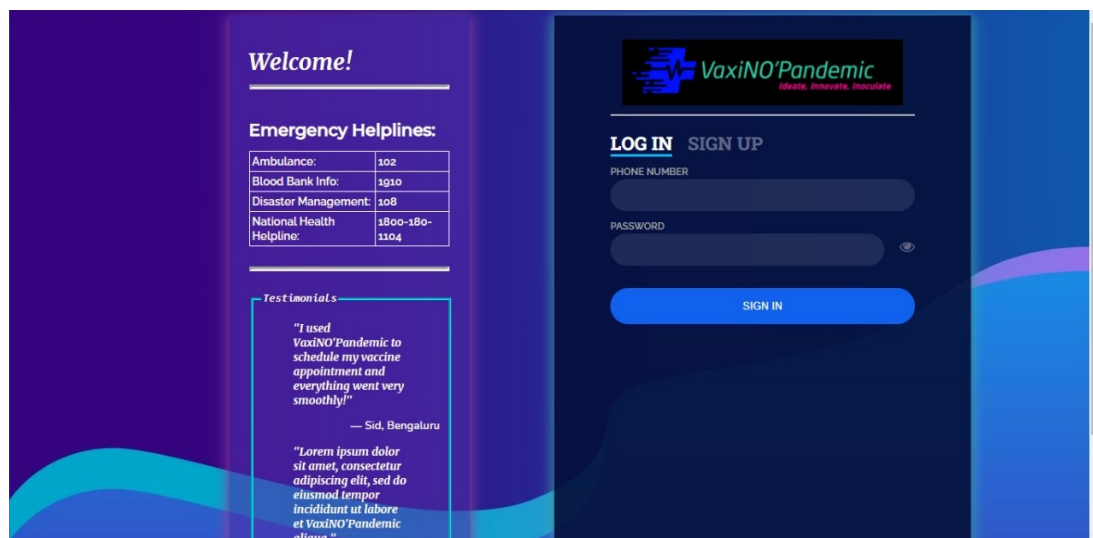


Figure 7: User Login Page

4.8 User Dashboard

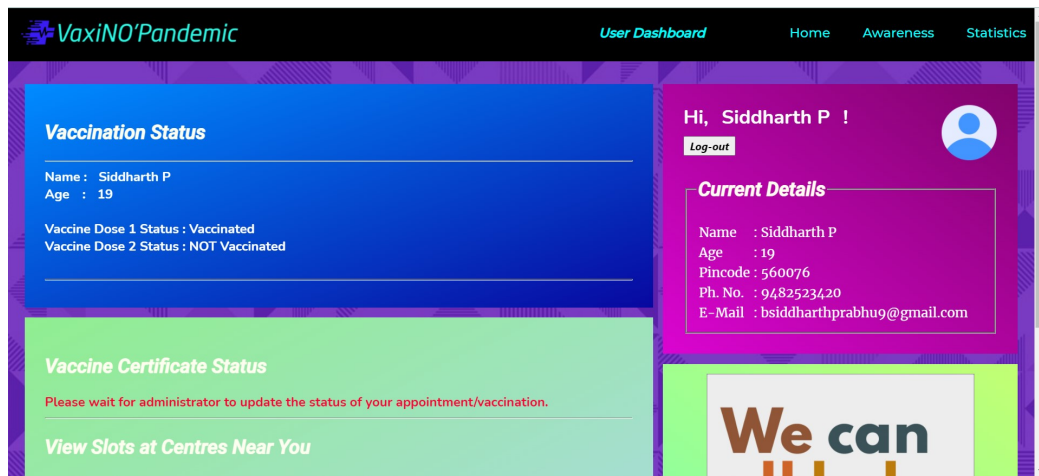


Figure 8: User Dashboard

4.9 View Slots

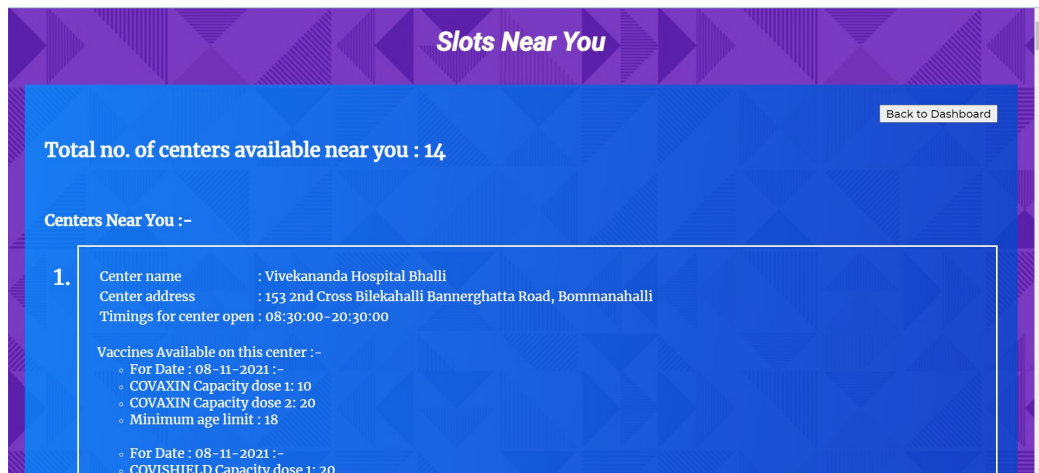


Figure 9: View Slots

4.10 Vaccine Certificate

11/8/21, 7:28 PM

Certificate Dose 1


Certificate of Vaccination (Dose 1)

It is to hereby certify that **Siddharth P**
has been vaccinated against COVID-19 (Dose 1).

Details of Vaccinee

Name	: Siddharth P
Age	: 19
Phone No.	: 9482523420
Pincode	: 560076
Email	: bsiddharthprabhu9@gmail.com
Date of Vaccination	: 2021-11-08 dose 1

Thank you for getting vaccinated!

VaxiNO'Pandemic
Verified on : 2021-11-08


Vaccinee

[Click here to Print](#)
[Back to Dashboard](#)

localhost/VaxiNO-Pandemic/download1.php

1/1

Figure 10: Vaccine Certificate

5 Acknowledgements

We would like to thank the creators of the following resources, as these have been extremely valuable in the construction and maintenance this project.

[Google Fonts](#) has been used profusely across the website, and has a wide variety of fonts with easy integration.

[Our World In Data](#) [1] provided us with the data related to vaccination across the country.

[MongoDB COVID-19 Open Data project](#) gave us a data cluster that used the Johns Hopkins University (JHU) dataset. It is the backbone of the Statistics page on VaxiNO'Pandemic.

[MapMyIndia](#) was our source for the "Vaccine Centres Near You" Map, and was simple to integrate into our webpage.

[API Setu](#) has been helpful in checking slots at nearby vaccine centres.

References

- [1] L. R.-G. C. A. C. G. E. O.-O. J. H. B. M. D. B. Hannah Ritchie, Edouard Mathieu and M. Roser, "Coronavirus pandemic (covid-19)," *Our World in Data*, 2020, <https://ourworldindata.org/coronavirus>.